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भारत सरकार केंद्रीय विद्युत प्राधिकरण **दक्षिण क्षेत्रीय विद्युत समिति** 29, रेसकोर्स क्रास रोड बेंगलूर- 560 009		Government of India Central Electricity Authority **Southern Regional Power Committee** 29, Race Course Cross Road Bengaluru-560 009
Email:mssrpc-ka@nic.in		Phone: 080-22287205

सं/No.	SRPC/Special Meeting (SRPC)/2025/ 809 - 894	दिनांक/ Date	**20.02.2025**

सेवा में / To:

(वितरण सूची के अनुसार / *As per the distribution list)*

विषय : वीसी के माध्यम से आयोजित एसआरपीसी की विशेष बैठक के कार्यवृत - के संबंध में

Subject: Minutes of the Special Meeting of SRPC held on 04.02.2025 through VC -reg.

महोदय /महोदया
Sir/Madam

एसआरपीसी की विशेष बैठक जो वीसी के माध्यम से 04.02.2025 से आयोजित की गई थी उसके कार्यवृत संगलग्न हैं ।

Please find attached Minutes of the Special Meeting of SRPC held on 04.02.2025 through VC. The same has been uploaded on SRPC website.

धन्यवाद / Thanking you,

भवदीय/Yours faithfully,

(**असित सिंह /Asit Singh**)
सदस्य सचिव/Member Secretary

Shubham Arya
Digitally signed by: Shubham Arya
DN: CN = Shubham Arya C = IN O = Personal
Date: 2026.06.04 14:30:22 +05'30'

वितरण सूची / *Distribution List:*

A. Members of SRPC:

1) **Shri Gaurav Gupta, Chairperson SRPC & MD , KPCL, Bengaluru**
2) Shri Hemant Jain , Member (GO & D), CEA, New Delhi.
3) Shri K Vijayanand, CMD , APTRANSCO, Vijayawada
4) Shri KVN Chakradhar Babu, Managing Director, APGENCO, Vijayawada
5) Shri AKV Bhaskar, Director (Grid &Tr. Mgmt), APTRANSCO, Vijayawada
6) Shri Pattanshetti Ravi Subhash, CMD, APCPDCL, Vijayawada
7) Shri Pankaj Kumar Pandey, Managing Director, KPTCL, Bengaluru
8) Shri Lokhande Snehal Sudhakar, Managing Director, PCKL, Bengaluru
9) Shri S V Manjunatha , Director (Projects), KPTCL, Bengaluru
10) Chief Engineer (E), SLDC, KPTCL, Bengaluru
11) Shri Biju Prabhakar, CMD, KSEBL, Thiruvananthapuram
12) Shri Sivadas S, Director (T, SO & P), KSEBL, Thiruvananthapuram
13) Shri Saji Paulose, Director (Distribution & SCM), KSEBL, Thiruvananthapuram
14) Shri Sajeev G , Director (Gen –Elec, REES, SOURA, S&W), KSEBL, Thiruvananthapuram
15) Dr J Radhakrishnan, CMD, TNPDCL& TNPGCL & Chairman, TANTRANSCO
16) Ms K Indirani, Managing Director, TANTRANSCO, Chennai
17) Ms S Lakshmi, Director (Operation), TANTRANSCO, Chennai
18) Shri M Senthilkumar, Director (Technical), TNPGCL, Chennai
19) Shri D Krishna Bhaskar, CMD, TGTRANSCO, Hyderabad
20) Shri Sandeep Kumar Sultania, CMD, TGGENCO, Hyderabad
21) Shri T Jagath Reddy, Director(Tr), TGTRANSCO, Hyderabad
22) Shri MD Musharraf Faruqui CMD, TGSPDCL, Hyderabad
23) Smt A Muthamma, Secretary (Power), Govt. of Puducherry, Puducherry
24) Shri Naveen Srivastava, Director (Operation), PGCIL, Gurugram
25) Shri Ashok Pal, COO, CTUIL, Gurugram
26) Shri Jayakumar Srinivasan, Director (Finance), NTPC, New Delhi
27) Shri M Venkatachalam, Director (Power) NLCIL, Neyveli
28) Shri M Sankaranarayanan, Director (Finance), NPCIL, Mumbai
29) Shri S K Sinha, CEO, NTECL, Vallur
30) Shri Kanti Biswas, Head (O&M), APL-Udupi, Udupi
31) Shri Jyotiprakash Panda, Head-Regulatory & Power Sales, JSWEL, New Delhi
32) Shri K Anandaramanujam, CEO, NTPL, Tuticorin
33) Shri Raghav Trivedi, CEO, SEIL, Gurugram
34) Shri Bhavani Prasad, Business Head,, ITPCL, Chennai
35) Shri Venugopal Keshanakurthy, CEO, HNPCL, Hyderabad
36) Shri Manoj Kumar Jhawar (A/c), CMD , PTC India Ltd., New Delhi
37) Shri Satish Talmale, Chief Operating Officer, RSTCL – IndiGrid, Mumbai
38) Shri S C Saxena, Director(MO), NLDC, Grid India,, New Delhi
39) Shri V Balaji, Executive Director, SRLDC, Grid India, Bengaluru

B. Members of TCC:

1) **Shri S V Manjunatha** , **Chairperson (TCC)** & Director (P), KPTCL, Bengaluru
2) Shri AKV Bhaskar, Director (G &TM), APTRANSCO, Vijayawada
3) Shri P Ashok Kumar Reddy, Director (Thermal), APGENCO, Vijayawada
4) Shri JVTS Prasad, Director(T) , APCPDCL, Vijayawada
5) Chief Engineer (E), SLDC, KPTCL, Bengaluru
6) Shri B J Umesh, Additional Director (Projects) , PCKL, Bengaluru
7) Shri Krishnamurthy S , Technical Director, KPCL, Bengaluru
8) Shri Sivadas S, Director (T, SO & P), KSEBL, Thiruvananthapuram
9) Shri Saji Paulose, Director (Distribution & SCM), KSEBL, Thiruvananthapuram
10) Shri Sajeev G , Director (Gen –Elec, REES, SOURA, S&W), KSEBL, Thiruvananthapuram
11) Ms K Indirani, Managing Director, TANTRANSCO, Chennai
12) Ms S Lakshmi, Director (Operation), TANTRANSCO, Chennai
13) Shri M Senthilkumar, Director (Technical), TNPGCL, Chennai
14) Shri T Jagath Reddy, Director (Tr.), TGTRANSCO, Hyderabad
15) Shri B Narsinga Rao, Director (Grid Operations), TGTRANSCO, Hyderabad
16) Shri B Lakshmaiah, Director (Thermal),TGGENCO, Hyderabad
17) Shri K Saibaba, Director(Commercial, IPC & RAC), TGSPDCL, Hyderabad
18) Shri T Chanemougam, Superintending Engineer-cum-HOD, Elec. Dept., Puducherry
19) Shri Ajay Dua, Regional Executive Director, (SR), NTPC, Secunderabad
20) Ms Manju Gupta, Dy. COO, CTUIL, Gurugram
21) Shri A Nagaraju , Executive Director (SR- I), PGCIL, Secunderabad
22) Shri Krishna Kumar, Executive Director (SR- II), PGCIL, Bengaluru
23) Shri B Suryanarayanan, Executive Director (Thermal),NLCIL, Neyveli
24) Shri Choudhary Nitin R, OS & ED(C), NPCIL, Mumbai
25) Shri Kishore Chandra Patra, GM (O&M), General Manager(O&M), NTECL, Vallur
26) Shri Kartikeya Misra, VP and Head of Plant, JSWEL
27) Shri Manoj Taunk, Associate VP, Endorse (Prot & Metering), UPCL
28) Dr Pothala Koteswara Rao, Station Head, IL&FS Tamil Nadu Power Company Limited
29) Shri K Anandaramanujam, CEO, NTPL, Tuticorin
30) Shri Milind Nigudkar, Sr GM (Comml), SEIL, Gurugram
31) Shri S Mukharjee, Sr VP (O & M), & Plant Head, HNPCL, Hyderabad
32) Shri Harish Saran, Executive Director(Commercial & Operations), PTCIL, New Delhi
33) Shri Lokendra Singh Ranawat – Head Regulatory, RSTCL – IndiGrid, Mumbai
34) Shri Brieflee Lyngkhoi, Chief Engineer (GM), CEA, New Delhi
35) Ms Rishika Sharan, Chief Engineer (NPC), CEA, New Delhi
36) Ms S Usha, Head, NLDC, New Delhi
37) Shri V Balaji, Executive Director, SRLDC, Grid India, Bengaluru

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SOUTHERN REGIONAL POWER COMMITTEE

Minutes of Special SRPC Meeting held on 04.02.2025 through VC

1 INTRODUCTION

Special Meeting of SRPC was held on 04.02.2025 through VC (online mode) to discuss the ISTS proposals furnished by the CTUIL. List of participants are at **Annexure-1A**.

SRPC opening remarks

Shri Gaurav Gupta, Chairperson, SRPC and MD, KPCL & ACS DoE, GoK addressed the forum and welcomed all participants. He informed that the meeting was convened to discuss various transmission schemes proposed by CTUIL. The schemes would be deliberated and SRPC views would be furnished to the Government to take necessary actions. Involvement of all States utilities is very much vital in this regard. He requested Member secretary (MS), SRPC to take up the agenda items.

Agenda:

2 ISTS NETWORK EXPANSION SCHEME FOR VIEWS OF SOUTHERN REGION POWER COMMITTEE (SRPC)

i. CTUIL vide letter dated 15.01.2025 (**Annexure-2A**) has submitted the ISTS network expansion schemes that were discussed and agreed in the Consultation Meetings for evolving transmission schemes in Southern Region. The total estimated cost of the schemes is **Rs 8,097 Crores**. The details of the schemes are given as below:

S.No	Name of Scheme	State (s)	CMETS	Estimated Cost (Rs. Crore)
1	Transmission System for Kurnool-IV REZ - Phase-II (3 GW)	AP	36th CMETS-SR held on 19.12.2024	**2714**
	Transmission System for Kurnool-IV REZ - Phase-II (3 GW) ▪ Augmentation of Kurnool-IV PS by 765/400kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs ▪ Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard ▪ LILO of Kurnool-IV – Bidar 765kV D/c line at Shadnagar (about 50 kms) ▪ Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/c line (about 50 kms){TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400kV in matching time frame} ▪ Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c line (about 60 kms) **SRPC Deliberations:** a) MS, SRPC briefed about the scheme and informed that the proposal was discussed in the Joint Study meeting held during 21st to 23rd Nov 2024 at SRPC, Bengaluru. b) CTUIL stated that the Transmission Scheme for Integration of Kurnool-IV (Near Aspiri) REZ (for 7.5 GW) had been proposed in two parts, Phase-I (4.5 GW) and			

Phase-II (3 GW). Based on the decisions taken at the SRPC forum and CMETS, the implementation of the scheme was proposed in a phased manner.

c) Connectivity of about 4300 MW (3403 MW at 220kV level and 900 MW at 400kV level) had been granted / agreed to grant at Kurnool-IV PS. Phase –I scheme was under bidding (TBCB). In addition to the above, additional connectivity applications for 1910 MW had been received at Kurnool-IV PS. In view of above, for grant of connectivity to above applications, additional system strengthening scheme beyond Kurnool-IV PS is required. Accordingly, Transmission System for Integration of Kurnool-IV REZ - Phase-II (3 GW) was proposed, to be implemented, after the receipt of NCT forum approval based on SRPC views.

d) Managing Director, KPTCL informed that based on the RAP Resource Adequacy plan, a target of addition of 33.1GW of RE by 2034-35 out of which 19.3GW needs to come by 2029-30. This has been proposed to be taken up by the State of Karnataka. This RE includes both wind and solar. Therefore, Karnataka plans an elaborate transmission network, where maximum addition in capacities will happen in next five years to evacuate this power. 10 clusters of around 31 GW had been identified in Karnataka, in which 7 clusters are in North and central Karnataka, especially in Bidar, Bijapur, Raichur, Bagalkot, Gulbarga etc. Bidar is one of the crucial stations and KPTCL has planned a lot of capacity addition there. It was opined that if CTUIL takes up all transmission scheme and complete RE generation get evacuated through ISTS, State Government would face difficulty to meet RE obligation. Therefore, for RE power beyond identified potential by MNRE, STU evacuation network has been taken up. If not allowed through STU network, it may hamper harnessing power to meet the Pumped storage and Battery storage loads of the state.

e) CTUIL concurred to the same. It was mentioned that MNRE had written to Additional Chief Secretary, Karnataka regarding the unprecedented receipt of applications in the State of Karnataka, which was beyond the declared potential. CTUIL commented that all the applications received were through land BG route only and expressed concern regarding the availability of land for these Generations. The matter had been taken up with MNRE. Subsequently, MNRE had requested GoK to look into the potential in those areas. Accordingly, CTUIL requested inputs from KPTCL, to take a call on the grant of connectivity or further expansion of the transmission system.

f) MD, KPTCL responded that the details in this regard would be shared. It was suggested that CTUIL may plan evacuation of up to 2.5 GW from Bidar (identified potential); beyond 2.5 GW, State transmission system would be planned. Requirement of almost 3GW would be addressed by KPTCL and inputs/details in this regard would be furnished shortly.

g) CTUIL raised concern that as per provision in Sharing Regulations, applicants can submit the application through land BG route without ensuring the corresponding land/LOA. It is difficult to make out whether multiple applicants submit application targeting the same land. Therefore, inputs from Karnataka are very much crucial to understand the potential available to integrate to ISTS system and STU system. Accordingly, the ISTS system can be planned for the declared potential and for balance potential STU system can be developed. Associated transmission system where the applicants to bear the cost may also be considered; such applicants have to submit BG equivalent to the estimated cost of transmission system. KPTCL agreed to furnish the details within a week's time.

h) MD, KPTCL intimated that SECI had identified 500 MW at Bidar station to KREDL. It was planned through lease model, but failed, since the farmers in Bidar were not

willing to give the land on lease. The applications which were mentioned above, received through land BG route may be doubtful proposals.

i) CTUIL mentioned that 2.5 GW was identified at Bidar, however, applications for additional 3.5 GW connectivity had been received.

j) CTUIL stated that existing network would also be utilized, under Phase-II proposal, and it would not affect much on the STU network, since Shadnagar is a load centre majority of power would be consumed there. Regarding power flow towards Bidar, it was mentioned by CTUIL that Kurnool-IV to Bidar line is long and power in the range of 1000-1500 MW may reach Bidar, which would further get evacuated to Parli SS in WR. 765kV Bidar-Parli D/C, an Interregional link had been planned to strengthen the system outside Karnataka.

k) TGTRANSCO stated that due to land acquisition issue, 400kV Shadnagar station had now been identified about 1.5 km away from the existing 220kV Shadnagar station. Revised proposal would be furnished to CEA. CTUIL stated that the ISTS proposal is for 400kV connectivity from Shadnagar to Shadnagar (TGTRANSCO) stations.

l) SRLDC, Grid-India pointed out few violations as below and requested TGTRANSCO to plan accordingly:

1. N-1 violation of Shadnagar ICTs (3x500 MVA, 400/220kV).
2. Crossing of thermal limit in 400kV Shadnagar - Kethireddypalli line during N-1.
3. About 173% loading of 400 kV Kurnool-Srisailam left bank S/C line.

m) CTUIL suggested that TGTRANSCO may propose reconfiguration of loads at Kethireddypalli SS and shadnagar SS and regarding 400kV Kurnool-Srisailam left bank S/C, the line being very old, the matter needs to be further studied and relooked. For first phase, minimum ICT requirement had been proposed and CTUIL did not observe any "N-1" violation.

n) To APTRANSCO query regarding proposal for Shadnagar connectivity, CTUIL clarified that the said station was planned to address the stability issues (voltage, angular and dynamic stability), considering the length of Kurnool-IV to Bidar line. As per CEA Planning criteria, if the angular separation crosses 30 degrees, either augmentation of transmission line or anchoring of line to nearby station shall be adopted to transfer large amount of power. Sufficient load had also been identified at Shadnagar area. Initially, Veltoor was proposed, but TGTRANSCO proposed, Shadnagar and accordingly the location was finalized. CTUIL added that the ISTS scope includes the LILO portion of 765kV Kurnool-IV to Bidar line at Shadnagar, establishment of 765kV/400kV Shadnagar substation, line from Shadnagar (ISTS) to Shadnagar (TGTRANSCO) & Kethireddypalli (TGTRANSCO). ISTS scheme identified would be under the National Component. Shadnagar SS (new) and beyond and Kethireddypalli expansion would be under the scope of TGTRANSCO. The matter had been deliberated in detail in the Joint study meeting.

o) MD, KPTCL requested CTUIL to hold this proposal and stated that the views in this regard would be furnished within one week's time.

p) MS, SRPC requested all States to furnish the views/ comments for the proposal. Further, the proposal may be put up to the NCT along with the views of SRPC. CTUIL concurred to the same.

	q) After deliberations, all States were requested to furnish views/comments within a week's time to communicate to CTUIL for further submission by them to NCT. **r) It was concluded that constituent members to furnish their observations, if any, in writing on the proposed transmission scheme to SRPC secretariat within a week's time. Deliberations in the meeting and views received from SRPC Members (within a week) would be forwarded to CTUIL as the views of SRPC.**			
2	Transmission system strengthening at Davanagere and Bellary for integration of additional RE generation beyond identified potential	Karnataka	36th CMETS-SR held on 19.12.2024	**1211**
	Transmission system for integration of additional RE capacity in Davanagere and Bellary REZ a) Augmentation of Davanagere / Chitradurga PS by 765/400kV, 2x1500 MVA ICTs (additional 400/220kV, 4x500 MVA ICTs already approved in CMETS-SR) b) Augmentation of Bellary PS by 400/220kV, 4x500 MVA ICTs c) Bellary – Davanagare 2nd 400kV (Quad) D/c line. **SRPC Deliberations:** d) MS, SRPC briefed about the scheme and informed that the proposal was discussed in the Joint Study meeting held during 21st to 23rd Nov 2024 at SRPC, Bengaluru. e) CTUIL clarified that the entire potential of Davanagere had been allocated to RE Developers at 400kV & 220kV and it was found that the 9th 500 MVA, 400/220kV ICT may not be required at Davanagere, accordingly, the proposal for the same was dropped. Therefore, the proposal needs to be read as: "***Augmentation of Davanagere / Chitradurga PS by 765/400kV, 2x1500 MVA ICTs and already approved 400/220kV 4x500 MVA ICTs (5th to 8th)at Davangere.*** f) MD, KPTCL stated that, as deliberated above, additional RE potential identified at Davanagere and Bellary shall be evacuated through STU network and the inputs/details in this respect would be furnished in one week's time. CTUIL stated that system had been planned only for the declared/identified potential of 4 GW and not crossing the proposed additional potential. Whereas in Bellary, the declared potential was 1.5 GW, however, connectivity applications for an additional capacity of 3.5 GW had been received. It was added that total RE applications of about 6675 MW had been received by CTUIL at Bellary PS. MD, KPTCL requested CTUIL to hold the proposal and stated that the views in this regard would be furnished within one week's time. g) All States were requested to furnish the views/comments within a week's time so that the same may be forwarded to CTUIL. h) Chairperson, SRPC noted that as this project is specific to Karnataka system, views were expressed by Karnataka and required time was sought by MD, KPTCL, the same may be considered. Other States may also furnish their views. **i) It was concluded that constituent members to furnish their observations, if any, in writing on the proposed transmission scheme to SRPC secretariat within a week's time. Deliberations in the meeting and views received from SRPC Members (within a week) would be forwarded to CTUIL as the views of SRPC.**			
3	Transmission System for integration of additional RE capacity at Tumkur-II REZ	Karnataka	36th CMETS-SR held on 19.12.2024	**1194**

Transmission System for integration of additional RE capacity at Tumkur-II REZ

- Augmentation of Tumkur-II PS by 400/220 kV, 6x500 MVA ICTs
- Tumkur-II – Madhugiri 400kV (Quad) D/c line (~100 km)
- ± 300 MVAR STATCOM with switching arrangement of under implementation 2x125MVAr bus reactors.

SRPC Deliberations:

a) MD, KPTCL stated that, as deliberated above, additional RE potential identified at Tumkur-II shall be evacuated through STU network and requested for one week's time for submission of the STU proposal. MD, KPTCL requested CTUIL to hold this proposal and stated that the views in this regard would be furnished within one week's time.

b) All States were requested to furnish the views/comments within a week's time to further submit before NCT Forum.

c) Chairperson, SRPC noted that as this project is specific to Karnataka system and views were presented by Karnataka and one week's time was sought by MD, KPTCL to furnish detailed inputs, the same may be considered. Other States may furnish their views.

d) **Chairperson, SRPC concluded that constituent members to furnish their observations, if any, in writing on the proposed transmission scheme to SRPC secretariat within a week's time. Deliberations in the meeting and views received from SRPC Members (within a week) would be forwarded to CTUIL as the views of SRPC.**

4	Transmission system for proposed Green Hydrogen / Green Ammonia projects in Mangalore area	Karnataka	36th CMETS-SR held on 19.12.2024	**2978**

Transmission system for proposed Green Hydrogen / Green Ammonia projects in Mangalore area

- Establishment of 3x1500 MVA, 765/400kV GH S/s near Mangalore with space provision for establishment of 220kV switchyard
- Davanagare – Mangalore GH 765kV D/c line

SRPC Deliberations:

a) MS, SRPC briefed about the scheme and informed that the proposal was discussed in the CMETS meeting. It was opined that crossing Western Ghats with multiple lines may be quite challenging and needs to be studied properly.

b) MD, KPTCL agreed to the proposal and opined that the line would improve connectivity across the Ghats. Green Hydrogen load had been planned in Mangalore area (Green Hydrogen hub) and would help to harness the potential. Another advantage would be transmission of the RE power available at interior part of Karnataka towards coastal area. Thus, recommended to proceed further.

c) MS, SRPC suggested that considering the RoW issues in crossing the Western Ghats, HVDC may be viable, which would reduce RoW requirement, vis-à-vis, AC lines. He stressed that connectivity to coastal area is very much required. RoW assessment may be critical.

d) CTUIL responded that no application was received for Green Hydrogen connectivity. Based on observation furnished by Karnataka, the proposal was studied

	in the Joint study meeting and put forth for the approval. No RoW survey had been carried out. In case VSC based HVDC system is considered, the cost would be very high. e) MD, KPTCL stated that many other amenities like railway line, gas pipeline cross the Western Ghats and the line may be proposed piggyback with these utilities. This may facilitate forest clearance. All options need to be explored such as utilizing the States Right of Way or conversion of single circuit to multi circuits with both ISTS and STU lines. CTUIL agreed to explore the proposal and informed that there are instances of utilizing multi circuits to run ISTS and STU transmission lines. Hence, with the KPTCL support, the scheme can be implemented. MD, KPTCL requested CTUIL to bilaterally discuss various options available in this regard. e) All States were requested to furnish the views/comments within a week's time. f) TANTRANSCO queried that if HVDC system is proposed, whether it would have reverse flow capability. CTUIL explained that as per CEA Guidelines, any HVDC system planned shall have the capability of 100% reverse flow. MS, SRPC clarified that the instant proposal was A/C transmission line, if CTUIL faces any difficulty to implement, then other options may be examined. g) **It was concluded that constituent members to furnish their observations, if any, in writing on the proposed transmission scheme to SRPC secretariat within a week's time. Deliberations in the meeting and views received from SRPC Members (within a week) would be forwarded to CTUIL as the views of SRPC.** **The bidding/execution/implementation of the transmission schemes shall be taken up only when the GH & GA loads have entered into second stage like land tie up etc. or some level of certainty is attained.**

Agenda:

ii. CTUIL has further mentioned in their letter as below:

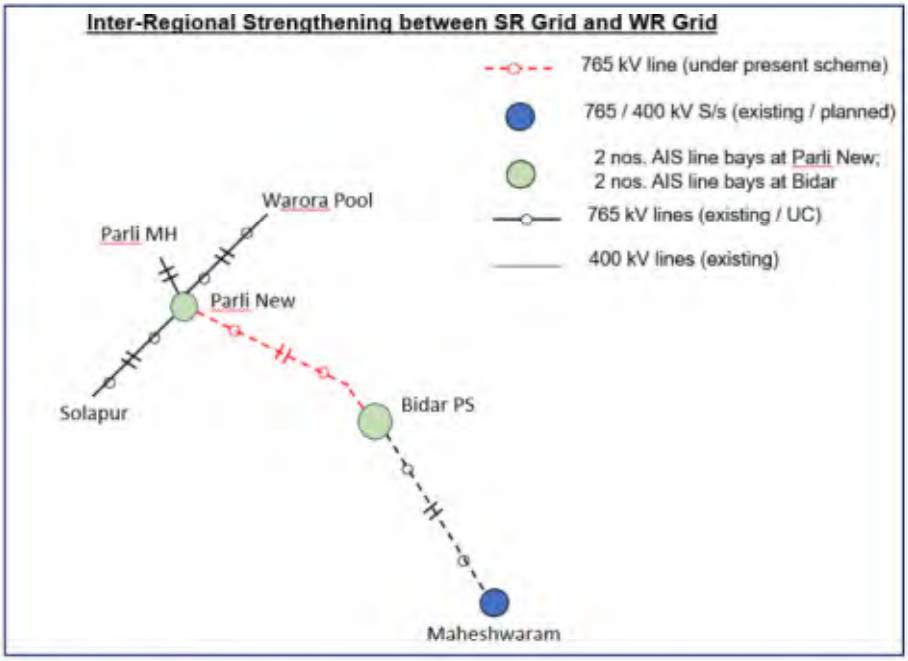
a) Para 6(3A) & Para 11 of MoP Gazette dated 03.12.2021 on resolution for establishment of SRPC stipulates the following:

"3A- To provide views on inter-state transmission system planned by CTU within 45 days of the receipt of the proposal by the concerned RPC. The views of RPC will be considered by National Committee on Transmission for sending their recommendation to Ministry of Power for approval of new inter-state transmission system."

b) That the transmission schemes at Sl. No. 1, 2 & 3 above would facilitate integration and immediate evacuation of RE capacity from Kurnool REZ in Andhra Pradesh, Davanagere & Bellary and Tumkur-II REZs in Karnataka. These transmission schemes shall also act as an enabler towards achieving the Govt. of India target of establishing 500 GW capacity from non-fossil based energy sources by 2030. The transmission scheme at Sl. No. 4 would facilitate evacuation of RE power and meeting the Green Hydrogen/Green Ammonia demand in Mangalore area in Karnataka.

iii. Further, CTUIL vide various letters as mentioned below has submitted the "**Inter-Regional (IR) Strengthening between SR Grid and WR&ER Grid** "that was discussed and agreed

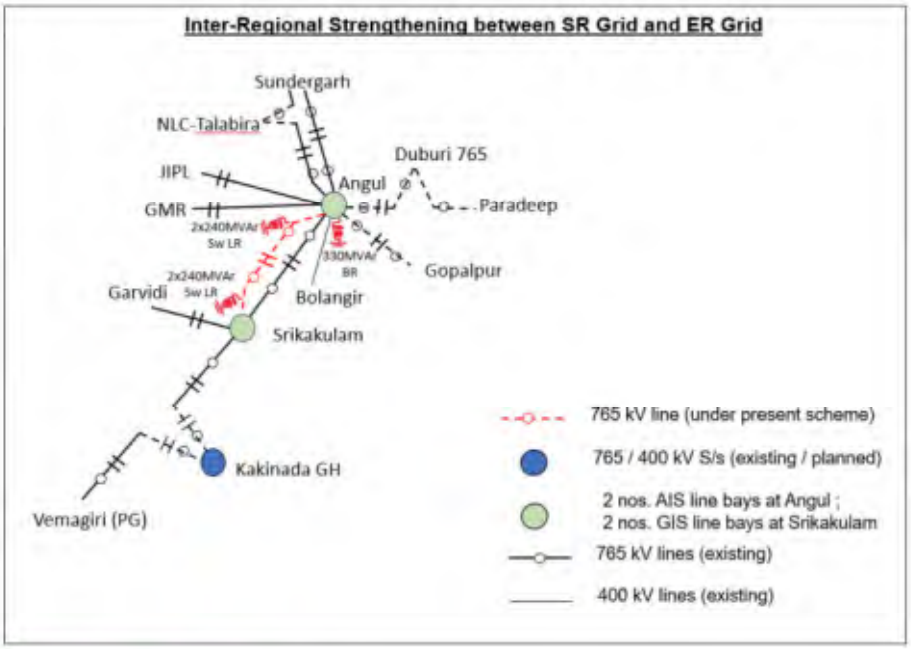
in Consultation Meetings for Evolving Transmission Schemes in Southern Region, Western Region & Eastern Region. The total estimated cost of the schemes is **Rs 3,587 Crores**. The details of the schemes are given as below:

S.No	Name of Scheme	CTUIL letter dated	State (s)	CMETS	Estimated Cost (Rs. Crore)
1	Inter-Regional Strengthening between SR Grid and WR Grid	16.01.2025 ***Annexure-2B***	Karnataka & Maharashtra	**34th CMETS-SR** held on 24.09.2024 & **34th CMETS-WR** held on 16 & 17.09.2024	**1007**
	IR Transmission Scheme: ▪ Parli New – Bidar 765kV D/c line (about 120 km) with 240 MVAR SLR at Bidar end on both circuits  **SRPC Deliberations:** a) MS SRPC noted that the scheme was agreed in 49th TCC (02.08.2024) & 52nd SRPC (03.08.2024) Meetings. It had been observed that SR ATC (import capability) would get enhanced by around 6000 MW with these two Inter Regional links. Conclusion of the meeting is given below: *i. SRPC approved the two inter regional links **765 kV Parli-Bidar D/C & 765 kV Angul-Srikakulam D/C**.* b) **The proposal was approved and may be taken up with the NCT by CTUIL. As it was evacuating RE power the scheme to be considered under National Component.**				
2	Inter-Regional Strengthening between SR Grid and ER Grid	17.01.2025 ***Annexure-2C***	AP & Odisha	**34th CMETS-SR** held on 24.09.2024 & **37th CMETS-ER** held on 29.11.2024	**2580**

IR Transmission Scheme:

a) Angul – Srikakulam 765 kV 2nd D/c line (about 275 km) with 240 MVAR SLR at both ends on both circuits.

b) 1x330 MVAR, 765kV bus reactor (3rd) at Angul Substation



SRPC Deliberations:

a) MS, SRPC noted that the scheme was agreed in 49th TCC (02.08.2024) & 52nd SRPC (03.08.2024) meetings. Conclusion of the meeting is given below:

*b) SRPC recommended that both the links shall be considered under **National Component** as 765 kV Parli-Bidar link would be used for RE evacuation and 765 kV Angul-Srikakulam link would be used to meet the GH&GA loads.*

c) **The proposal was approved and may be taken up with the NCT by CTUIL. As the IR link was required to meet GH/GA loads the scheme to be considered under National Component.**

3 ADDITIONAL AGENDA- ISTS NETWORK EXPANSION SCHEME FOR VIEWS OF SOUTHERN REGION POWER COMMITTEE (SRPC)

CTUIL vide letter dated 28.01.2025 (**Annexure-3A**) has submitted the ISTS network expansion schemes that were discussed and agreed in the Consultation Meetings for evolving transmission schemes in Southern Region. The total estimated cost of the schemes is **yet to be communicated**. The details of the schemes are given as below:

S.No	Name of Scheme	State (s)	CMETS	Estimated Cost (Rs. Crore)
5	Transmission System for integration of Ananthapuram-II REZ - Phase-II (3 GW)	AP	36th CMETS-SR held on 19.12.2024	**2899**
	Transmission System for Ananthapuram-II REZ - Phase-II (3 GW) Phase-II (3 GW)			

- Augmentation of 2x1500 MVA, 765/400 & 4x500 MVA, 400/220 kV Ananthapuram-II PS
- Establishment of 3x1500 MVA, 765/400 kV CN'Halli Station along with 2x330 MVAr (765 kV) bus reactors
- Ananthapuram-II – CN'Halli 765kV D/c line (about 180km) with 330 MVAR SLR at Ananthapuram-II end on both circuits
- LILO of one circuit of Talaguppa-Neelmangala 400 kV D/c line at CN'Halli
- LILO of Hassan-Talaguppa-Neelmangala 400 kV line at CN'Halli through:
  - LILO at CN'Halli of already LILOed section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan (25 kM) **or**
  - LILO of another circuit of Talaguppa-Neelmangala 400 kV D/c line at CN'Halli (25 kM) and extension of LILOed section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan to CN'Halli to make Hassan - CN'Halli 400kV D/c line (25 kM)

In addition to the above, following connectivity for CN'Halli Substation was finalized under KPTCL scope:

- Jagalur - CN'Halli 400 kV (Quad) D/c line
- Kadakola - CN'Halli 400 kV (Quad) D/c line

SRPC Deliberations:

a) MS, SRPC briefed about the scheme and informed that the proposal was discussed in the Joint Study meeting held on 9th Jan 2025. Augmentation of Ananthapuram-II would meet the loads in Karnataka area. KPTCL had requested CTUIL to provide ten 400 kV bays. SRPC and SRLDC had requested CTUIL to ensure space for connectivity at 220 kV level. CTUIL mentioned the estimate cost of the scheme as **Rs.2,899 Crores**.

b) APTRANSCO requested to clarify whether the scheme comes under National Component as multiple 400 kV ISTS downstream connectivity were proposed from CN'Halli substation in addition to Kadakola and Jagalur Karnataka STU lines. CTUIL explained that 400 kV ISTS Hassan substation would be integrated to 400kV CN'Halli Substation. 400kV (ISTS) Hassan-Mysore connectivity would also be ensured. Thereby, sufficient drawl point had been provided to Karnataka and Kerala (via Hassan-Mysore- Kozhikode link). This ensures stability of the system and augmentation of ISTS system which in turn gets integrated to KPTCL system.

c) To APTRANSCO query, CTUIL stated that currently Ananthapuram-II – CN'Halli 765kV D/c radial interconnection was proposed, whereas at 400kV level, CN'Halli substation, the system gets interconnected to multiple ISTS-STU system. It was also mentioned that RE generation, if any comes up, would get connected to 765/400kV level of CN'Halli station.

Loads getting connected to the immediate RE sources would ensure optimum utilization of transmission system.

SE, KPTCL mentioned that all 400kV substations proposed to connect at CN'Halli are load centers, which help RE power absorption.

d) **Chairperson, SRPC concluded that constituent members to furnish their observations, if any, in writing on the proposed transmission scheme to SRPC secretariat within a week's time. Deliberations in the meeting and views received from SRPC Members (within a week) would be forwarded to CTUIL as the views of SRPC.**

4 CLOSING REMARKS

Chairperson, SRPC & MD, KPCL & ACS, Energy, GoK thanked the members and requested SR constituents to furnish their views, if any, on all the CTUIL proposed Transmission Schemes in writing to SRPC secretariat within one week.

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ANNEXURE 'P/6'

सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग- II
Power System Planning & Appraisal Division-II

सेवा में /To

As per list of Addresses

विषय: ट्रांसमिशन पर राष्ट्रीय समिति (एनसीटी) की अट्ठाईसवीं बैठक का कार्यवृत्त ।

Subject: Minutes of the 28th Meeting of the National Committee on Transmission (NCT).

महोदया (Madam) / महोदय (Sir),

The 28th meeting of the National Committee on Transmission (NCT) was held on 06th March, 2025 at New Delhi. The minutes of the meeting are attached herewith.

भवदीय / Yours faithfully,

21.3.2025

(बी.एस.बैरवा / B.S. Bairwa)
मुख्य अभियन्ता (इंचार्ज) एवं सदस्य सचिव,एन.सी.टी.
/Chief Engineer (I/C) & Member Secretary (NCT)

प्रतिलिपि / Copy to:

Joint Secretary (Trans), Ministry of Power, New Delhi

Shubham Arya
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Date: 2026.06.04 14:32:00 +05'30'

3.4.2 MS, SRPC stated that this project is specific to Karnataka system and Karnataka is of the view that additional RE potential identified at Tumkur-II shall be evacuated through STU network.

3.4.3 Representative of CTUIL informed that majority of the applications received were through land BG route. Further, Karnataka, during the various consultation meetings for the transmission scheme has expressed concern regarding the availability of land for these Generations. CTU has also taken-up the matter with MNRE for declaration of additional potential in Karnataka so that pending applications may be granted connectivity. Subsequently, MNRE had requested Government of Karnataka for their observations towards the additional potential in those areas.

3.4.4 After further deliberations, NCT decided to hold the proposal at this stage and directed CEA to finalise the transmission Resource Adequacy (RA) plan of Karnataka at the earliest. The RE capacity to be integrated to intra-state system would be factored in the RA plan and for the balance RE capacity, ISTS network may be planned.

3.5 **Transmission system for proposed Green Hydrogen / Green Ammonia projects in Mangalore area**

3.5.1 Representative of CTUIL stated that as per the inputs received from MOP / MNRE, Green Hydrogen / Green Ammonia based plants of about 2250 MW are envisaged in Mangalore area. Same have been proposed to be integrated with Davanagere REZ for harnessing the RE potential of the region and feeding the bulk load at Mangalore. He further informed that presently no GNA applications from Green Hydrogen / Green Ammonia developers has been received.

3.5.2 MS, SRPC informed that considering the RoW issues in crossing the Western Ghats with multiple lines may be quite challenging and needs to be studied properly. Further, the bidding/execution/implementation of the transmission schemes shall be taken up only when the GH & GA loads have entered into second stage like land tie up etc. or some level of certainty is attained.

3.5.3 After deliberations, NCT noted the proposal but decided to take it up for further discussions based on the GNA applications/visibility.

3.6 **Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**

3.6.1 Representative of CTUIL stated that the Transmission System for integration of Kurnool-IV REZ Phase-I (4.5 GW : 4x1500 MVA, 765/400 kV and 4x500 MVA, 400/220 kV) is under bidding stage. Connectivity of about 4300 MW (3403 MW at 220 kV level and 900 MW at 400 kV level) has been granted / agreed for grant at Kurnool-IV PS Ph-I. Further applications of 1910 MW were received in the month of

Nov'24 & Dec'24 (cumulative : 6210 MW) for which Kurnool-IV REZ-Ph-II transmission system is required. Accordingly, the transmission scheme of Kurnool-IV REZ-Ph-II inter-alia including augmentation of 2x1500 765/400 kV & 6x500 400/220 kV ICTs among other required transmission system for Ph-II was submitted to SRPC and NCT.

3.6.2 Subsequently, additional connectivity applications of about 2730 MW has been received at Kurnool-IV PS in the month of Jan'25. Applications of Nov'24/Dec'24/Jan'25 are yet to be taken-up for consultations. Considering the quantum of the connectivity sought by applicants, additional connectivity of 3200 MW (2700 MW at 220 kV level and 500 MW at 400 kV) may be considered for grant. Accordingly, it was suggested that considering the connectivity quantum of applications received till Jan'25, complete transmission system for 7.5 GW capacity to grant connectivity for 7.5 GW (cumulative) may be considered for implementation.

3.6.3 It was also informed that balance applications beyond 7.5 GW shall be considered at Kurnool-V transmission system which is being identified separately.

3.6.4 Further, few of the RE developers for whom connectivity has been granted / agreed for grant at Kurnool-IV PS have requested for implementation of 400 kV / 220 kV bays under ISTS for termination of their dedicated transmission lines.

3.6.5 Grid-India highlighted concerns regarding the nomenclature of ISTS RE pooling stations. With multiple substations having similar names and numerous interconnections, there is a risk of miscommunication during real-time operations among various stakeholders. To enhance operational clarity and ensure easy differentiation of substation names, it was suggested that CTU may rename ISTS substations considering the geographical location nearest to them, such as a village or taluk, once their exact location is finalized.

3.6.6 Grid-India also stated that Kurnool-IV phase-I scheme was approved in the 23rd NCT meeting. The scheme is currently under bidding stage. 765 kV Kurnool-IV – Bidar D/C line was approved in Phase-I. Now, in phase-II, LILO of this line at 765 kV Shadnagar S/s is being proposed. There is a possibility that 765 kV Kurnool-IV – Bidar D/C may be awarded one bidder and while the LILO portion is awarded to another bidder. In a similar scenario earlier, 765 kV Bhuj – Lakadia D/C was approved and was awarded to Adani Power. Subsequently, LILO of this line was approved at Bhuj-II and LILO portion was awarded to POWERGRID. During the first-time energization stage, certain coordination issues such as scope of PLCC installation etc. were observed. Therefore to avoid any surprises during first-time charging stage coordination it was suggested that the responsibilities and scope of each bidder (such as scope of PLCC equipment installation etc.) may be clearly specified.

3.6.7 Member Secretary, SRPC stated that the transmission system was approved in the Special SRPC meeting as the transmission system planned is for RE within the identified potential by MNRE/SECI.

3.6.8 CTUIL suggested that complete transmission system may be taken-up for implementation for catering to connectivity upto 7.5 GW including ICT augmentations at Kurnool-IV and line bays for termination of DTL of RE applications for capacity upto 7.5 GW, some of which are yet to be taken-up for consultations. However, considering the lead time in manufacturing of the ICTs, the transmission scheme may be implemented as a single scheme with two implementation schedules of 24 months and 30 months.

3.6.9 After deliberations, “Transmission System for Kurnool-IV REZ - Phase-II (3 GW)” was recommended for implementation under TBCB route.

3.6.10 Summary of the scheme is given below:

Sl. No.	**Name of the scheme and tentative implementation timeframe**	**Estimated Cost (₹ Crore)**	**Remarks**
1.	Transmission System for Kurnool-IV REZ - Phase-II (3 GW)	₹ 3235 Cr	Approved under TBCB route with PFCCL as BPC

	Implementation timeframe: Progressively from 24 Months to 30 months from the date of SPV transfer		

3.6.11 Detailed scope of the scheme is given below:

Sl. No.	***Scope of the Transmission Scheme***	***Capacity /km***	***Schedule***
1.	Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs	• 400/220kV, 500 MVA, ICTs – 4 nos. • 400kV ICT bays – 4 nos. • 400kV Bus Sectionalizer: 1 set • 220kV ICT bays – 4 nos. • 220kV Bus Sectionalizer: 1 set • 220 kV Bus Coupler (BC) Bay – 1 nos. • 220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	24 months
2.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	• 220kV line bays – 5 nos.	24 months
3.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	• 400kV line bays – 1 no.	24 months
4.	Augmentation of Kurnool-IV PS by 765/400kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs	• 765/400kV, 1500 MVA, ICTs – 2 nos. • 765kV ICT bays – 2 nos. • 400kV ICT bays – 2 nos. • 400/220kV, 500 MVA, ICTs – 6 nos. • 400kV ICT bays – 6 nos. • 220kV ICT bays – 6 nos. • 220kV Bus Sectionalizer: 1 set • 220 kV Bus Coupler (BC) Bay – 1 nos. • 220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	30 months
5.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	• 220kV line bays – 8 nos.	30 months
6.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	• 400kV line bays – 1 no.	30 months

Sl. No.	***Scope of the Transmission Scheme***	***Capacity /km***	***Schedule***
7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard **Future Space Provisions:** • 765/400kV, 1500 MVA, ICTs – 2 nos. • 765kV ICT bays – 2 nos. • 400kV ICT bays – 2 nos. • 765kV line bays – 8 nos. (with provision for SLR) • 400kV line bays – 8 nos. (with provision for SLR) • 400kV Bus Sectionalizer: 1 set **Future Space Provisions for 220kV switchyard:** • 400/220kV, 500 MVA, ICTs – 10 nos. • 400kV ICT bays – 10 nos. • 220kV ICT bays – 10 nos. • 220kV line bays – 16 nos. • 220kV Bus Sectionalizer: 3 set • 220 kV Bus Coupler (BC) Bay – 4 no. • 220 kV Transfer Bus Coupler (TBC) Bay – 4 no.	• 765/400kV, 1500 MVA, ICTs – 4 nos. (13x500 MVA incl. 1 spare unit) • 765kV ICT bay – 4 nos. • 400kV ICT bay – 4 nos. • 765kV line bays – 4 nos. (at Shadnagar for termination of LILO of Kurnool-IV – Bidar 765kV D/c line) • 765 kV, 330 MVAr Bus Reactors – 2 nos. (7x110 MVAr inc. 1 switchable spare unit) • 765 kV Bus Reactor bays – 2 nos. • 400kV line bays – 4 nos. (at Shadnagar for termination of Shadnagar – Shadnagar (TGTRANSCO) and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c lines)	30 months
8.	LILO of Kurnool-IV – Bidar 765kV D/c line at Shadnagar (about 50 kms)	~ 50 km	30 months
9.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/c line (about 50 kms) {TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame}	~ 50 km 400kV line bays – 2 nos. (at Shadnagar (TGTRANSCO))	30 months
10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad	~ 60 km 400kV line bays – 2 nos. (at Kethiredipally	30 months

Sl. No.	*Scope of the Transmission Scheme*	*Capacity /km*	*Schedule*
	D/c line (about 60 kms)	(TGTRANSCO))	

3.7 **Transmission System for integration of Ananthapuram-II REZ - Phase-II (3 GW)**

3.7.1 Representative of CTUIL stated that the Transmission System for integration of Ananthapuram-II REZ Phase-I (4.5 GW : 4x1500 MVA, 765/400 kV and 6x500 MVA, 400/220 kV) is under bidding phase. Connectivity of about 3759 MW (2759 MW at 220 kV level and 1000 MW at 400 kV level) has been granted / agreed for grant at Ananthapuram-II PS Ph-I. Further applications of 4277 MW were received in the month of Oct'24/Nov'24/Dec'24 (cumulative : 8036 MW) for which Ananthapuram-II REZ-Ph-II transmission system is required. Accordingly, the transmission scheme of Ananathapuram-II REZ-Ph-II inter-alia including augmentation of 2x1500 765/400 kV & 4x500 400/220 kV ICTs among other required transmission system for Ph-II was submitted to SRPC & NCT.

3.7.2 Subsequently, additional connectivity applications of about 500 MW has been received at Ananthapuram-II PS in the month of Jan'25. Applications of Nov'24/Dec'24/Jan'25 are yet to be taken-up for consultation. Considering the quantum of the connectivity sought by applicants, additional connectivity of 3747 MW (2847 MW at 220 kV level and 900 MW at 400kV level may be considered for grant. Accordingly, it was suggested that considering the connectivity quantum of applications received till Jan'25, complete transmission system for 7.5 GW capacity to grant connectivity for 7.5 GW (cumulative) may be considered for implementation.

3.7.3 It was also informed that for balance applications beyond 7.5 GW, Ananthapuram-III transmission system shall be required which shall be identified separately. Further, some of the RE developers for whom connectivity has been granted / agreed for grant at Ananthapuram-II PS have requested for implementation of 400 kV & 220 kV bays under ISTS for termination of their dedicated transmission lines.

3.7.4 Member Secretary, SRPC stated that the transmission system was approved in the Special SRPC meeting as the transmission system planned is for RE within the identified potential by MNRE/SECI.

3.7.5 CTUIL suggested that complete transmission system may be taken-up for implementation for catering to Connectivity upto 7.5 GW including ICT augmentations at Anathapuram-II PS and line bays for termination of DTL of RE applications for capacity upto 7.5 GW, some of which are yet to be taken-up for consultation. However, considering the lead time in manufacturing of the ICTs, transmission scheme may be implemented as a single scheme with two implementation schedules of 24 months and 30 months.

3.7.6 After deliberations, NCT recommended "Transmission System for Integration of

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भारत का राजपत्र
The Gazette of India

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असाधारण
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)
PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 1460] नई दिल्ली, बृहस्पतिवार, मार्च 27, 2025/चैत्र 6, 1947
No. 1460] NEW DELHI, THURSDAY, MARCH 27, 2025/CHAITRA 6, 1947

विद्युत मंत्रालय

अधिसूचना

नई दिल्ली, 27 मार्च, 2025

का.आ 1478(अ).—विद्युत अधिनियम, 2003 (2003 की सं. 36) की धारा 63 के अंतर्गत परिचालित दिशा-निर्देशों के पैरा 3 के उप-पैरा 3.2 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, केन्द्र सरकार, राष्ट्रीय पारेषण समिति की 28 वीं बैठक की सिफारिशों पर, संबंधित बोली-प्रक्रिया समन्वयक (बीपीसी) के ब्यौरे के साथ टीबीसीबी मोड के अंतर्गत निम्नलिखित पारेषण स्कीमों को अधिसूचित करती है: -

<table>
<tr><th>क्रम सं.</th><th colspan="4">पारेषण स्कीम का नाम और कार्यक्षेत्र</th></tr>
<tr><td>1.</td><td colspan="4">कुर्नूल-IV आरईजेड के लिए पारेषण प्रणाली - चरण-II (3 गीगावाट)
कार्यान्वयन की संभावित समय-सीमा: एसपीवी अंतरण की तिथि से 24 माह से 30 माह तक उत्तरोत्तर
बीपीसी: पीएफसी कंसल्टिंग लिमिटेड
कार्यक्षेत्र:
<table>
<tr><th>क्रम सं.</th><th>पारेषण स्कीम का कार्यक्षेत्र</th><th>क्षमता/किमी</th><th>नियत समय</th></tr>
<tr><td>1.</td><td>400/220 केवी, 4x500 एमवीए आईसीटी द्वारा कुर्नूल-IV पीएस का संवर्धन</td><td>•400/220 केवी, 500 एमवीए, आईसीटी - 4
•400 केवी आईसीटी बे – 4
•400 केवी बस सेक्शनलाइजर: 1 सेट
•220 केवी आईसीटी बे – 4</td><td>24 माह</td></tr>
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			•220 केवी बस सेक्शनलाइजर: 1 सेट •220 केवी बस कपलर (बीसी) बे – 1 •220 केवी ट्रांसफर बस कपलर (टीबीसी) बे – 1	
	2.	नवीकरणीय ऊर्जा उत्पादन परियोजनाओं की समर्पित पारेषण लाइनों की समाप्ति के लिए कुर्नूल-IV पीएस पर 220 केवी लाइन बे	•220 केवी लाइन बे– 5	24 माह
	3.	नवीकरणीय ऊर्जा उत्पादन परियोजनाओं की समर्पित पारेषण लाइनों की समाप्ति के लिए कुर्नूल-IV पीएस पर 400 केवी लाइन बे	•400 केवी लाइन बे – 1	24 माह
	4.	765/400 केवी, 2x1500 एमवीए और 400/220 केवी, 6x500 एमवीए आईसीटी द्वारा कुर्नूल-IV पीएस का संवर्धन	•765/400 केवी, 1500 एमवीए, आईसीटी – 2 •765 केवी आईसीटी बे – 2 •400 केवी आईसीटी बे – 2 •400/220 केवी, 500 एमवीए, आईसीटी – 6 •400 केवी आईसीटी बे – 6 •220 केवी आईसीटी बे – 6 •220 केवी बस सेक्शनलाइजर: 1 सेट •220 केवी बस कपलर (बीसी) बे – 1 •220 केवी ट्रांसफर बस कपलर (टीबीसी) बे – 1	30 माह
	5.	नवीकरणीय ऊर्जा उत्पादन परियोजनाओं की समर्पित पारेषण लाइनों की समाप्ति के लिए कुर्नूल-IV पीएस पर 220 केवी लाइन बे	•220 केवी लाइन बे – 8	30 माह
	6.	नवीकरणीय ऊर्जा उत्पादन परियोजनाओं की समर्पित पारेषण लाइनों की समाप्ति के लिए कुर्नूल-IV पीएस पर 400 केवी लाइन बे	•400 केवी लाइन बे – 1	30 माह
	7.	220 केवी स्विचयार्ड की स्थापना के लिए स्थान प्रावधान के साथ 2x330 एमवीएआर (765 केवी) बस रिएक्टरों सहित 4x1500 एमवीए, 765/400 केवी शादनगर स्टेशन की स्थापना **<u>भावी स्थान प्रावधान:</u>** 765/400 केवी, 1500 एमवीए, आईसीटी– 2 765 केवी आईसीटी बे – 2 400 केवी आईसीटी बे – 2 765 केवी लाइन बे– 8 (एसएलआर के प्रावधान के साथ) 400 केवी लाइन बे – 8 (एसएलआर के प्रावधान के साथ) 400 केवी बस सेक्शनलाइज़र: 1 सेट **<u>220 केवी स्विचयार्ड के लिए भावी स्थान प्रावधान:</u>** 400/220 केवी, 500 एमवीए, आईसीटी–10 400 केवी आईसीटी बे– 10 220 केवी आईसीटी बे – 10 220 केवी लाइन बे – 16	•765/400 केवी, 1500 एमवीए, आईसीटी – 4 (1 अतिरिक्त यूनिट सहित 13x500 एमवीए) •765 केवी आईसीटी बे – 4 •400 केवी आईसीटी बे – 4 •765 केवी लाइन बे – 4 (शादनगर में कुर्नूल-IV – बीदर 765 केवी डी/सी लाइन के एलआईएलओ की समाप्ति के लिए) •765 केवी, 330 एमवीएआर बस रिएक्टर - 2 (1 स्विच करने योग्य अतिरिक्त यूनिट सहित 7x110 एमवीएआर) •765 केवी बस रिएक्टर बे – 2 •400 केवी लाइन बे - 4 (शादनगर में शादनगर - शादनगर (टीजीट्रांस्को) और शादनगर - केथिरेडिपल्ली (टीजीट्रांस्को) 400 केवी क्वाड डी/सी लाइनों की समाप्ति के लिए)	30 माह

		220 केवी बस सेक्शनलाइज़र: 3 सेट 220 केवी बस कपलर (बीसी) बे – 4 220 केवी ट्रांसफर बस कपलर (टीबीसी) बे– 4		
	8.	शादनगर में कुर्नूल-IV – बीदर 765 केवी डी/सी लाइन का एलआईएलओ (लगभग 50 किमी)	•~ 50 किमी	30 माह
	9.	शादनगर - शादनगर (टीजीट्रांस्को) 400 केवी क्वाड डी/सी लाइन (लगभग 50 किमी) {टीजीट्रांस्को समान समय सीमा में शादनगर (टीजीट्रांस्को) को 400 केवी में उन्नयन करेगा}	•~ 50 किमी •400 केवी लाइन बे– 2 (शादनगर (टीजीट्रांसको) में)	30 माह
	10.	शादनगर-केथिरेडिपल्ली (टीजीट्रांसको) 400 केवी क्वाड डी/सी लाइन (लगभग 60 किमी)	•~ 60 किमी •400 केवी लाइन बे – 2 (केथिरेडिपल्ली (टीएसट्रांसको) में)	30 माह

2. अनंतपुरम-II आरईजेड के एकीकरण के लिए पारेषण प्रणाली - चरण-II (3 गीगावाट)

कार्यान्वयन की संभावित समय-सीमा: एसपीवी अंतरण की तिथि से 24 माह से 30 माह तक उत्तरोत्तर

बीपीसी: आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड

कार्यक्षेत्र:

क्र. सं	***पारेषण स्कीम का कार्यक्षेत्र***	***क्षमता/किमी***	***नियत समय***
1.	400/220 केवी, 1x500 एमवीए आईसीटी द्वारा अनंतपुरम-II पीएस का संवर्धन	•400/220 केवी, 500 एमवीए, आईसीटी – 1 •400 केवी आईसीटी बे – 1 •400 केवी बस सेक्शनलाइजर: 1 सेट •220 केवी आईसीटी बे – 1 •220 केवी बस सेक्शनलाइजर: 1 सेट •220 केवी बस कपलर (बीसी) बे – 1 •220 केवी ट्रांसफर बस कपलर (टीबीसी) बे – 1	24 माह
2.	नवीकरणीय ऊर्जा उत्पादन परियोजनाओं की समर्पित पारेषण लाइनों की समाप्ति के लिए अनंतपुरम-II पीएस पर 220 केवी लाइन बे	•220 केवी लाइन बे – 2	24 माह
3.	नवीकरणीय ऊर्जा उत्पादन परियोजनाओं की समर्पित पारेषण लाइन की समाप्ति के लिए अनंतपुरम-II पीएस पर 400 केवी लाइन बे	•400 केवी लाइन बे – 3.	24 माह
4.	765/400 केवी, 2x1500 एमवीए और 400/220 केवी, 6x500 एमवीए आईसीटी द्वारा अनंतपुरम-II पीएस का संवर्धन	•765/400 केवी, 1500 एमवीए, आईसीटी – 2 •765 केवी आईसीटी बे – 2 •400 केवी आईसीटी बे – 2 •400/220 केवी, 500 एमवीए, आईसीटी – 6 •400 केवी आईसीटी बे – 6	30 माह

			•220 केवी आईसीटी बे – 6 •220 केवी बस सेक्शनलाइजर: 1 सेट •220 केवी बस कपलर (बीसी) बे – 1 •220 केवी ट्रांसफर बस कपलर (टीबीसी) बे – 1	
	5.	नवीकरणीय ऊर्जा उत्पादन परियोजनाओं की समर्पित पारेषण लाइनों की समाप्ति के लिए अनंतपुरम-II पीएस पर 220 केवी लाइन बे	•220 केवी लाइन बे – 10	30 माह
	6.	2x330 एमवीएआर (765 केवी) बस रिएक्टरों के साथ 3x1500 एमवीए, 765/400 केवी सीएन'हल्ली स्टेशन की स्थापना **<u>भावी स्थान प्रावधान:</u>** 765/400 केवी, 1500 एमवीए, आईसीटी– 3 765 केवी आईसीटी बे – 3 400 केवी आईसीटी बे – 3 765 केवी लाइन बे – 6 (एसएलआर के प्रावधान के साथ) 400 केवी लाइन बे – 12 (एसएलआर के प्रावधान के साथ) 400 केवी बस सेक्शनलाइजर: 1 सेट	•765/400 केवी, 1500 एमवीए, आईसीटी – 3 (1 अतिरिक्त यूनिट सहित 10x500 एमवीए) •765 केवी आईसीटी बे – 3 •400 केवी आईसीटी बे – 3 •765 केवी लाइन बे – 2 (सीएन'हल्ली में सीएन'हल्ली – अनंतपुरम-II पीएस 765 केवी डी/सी लाइन की समाप्ति के लिए) •765 केवी, 330 एमवीएआर बस रिएक्टर – 2 (7x110 एमवीएआर सहित 1 स्विच करने योग्य अतिरिक्त यूनिट) •765 केवी बस रिएक्टर बे – 2 • 400 केवी लाइन बे – 6	30 माह
	7.	दोनों सर्किटों पर अनंतपुरम-II छोर पर 330 एमवीएआर एसएलआर के साथ अनंतपुरम-II पीएस - सीएन'हल्ली 765 केवी डी/सी लाइन (लगभग 180 किमी)	•~180 किमी •765 केवी लाइन बे - 2 (अनंतपुरम-II पीएस छोर पर) •अनंतपुरम-II पर 765 केवी, 330 एमवीएआर एसएलआर - 2 (6x110 एमवीएआर स्विच करने योग्य यूनिट)	30 माह
	8.	सीएन'हल्ली में तलगुप्पा-नीलमंगला 400 केवी डी/सी लाइन के एक सर्किट का एलआईएलओ (25 किमी)	•~ 25 किमी	30 माह
	9.	i) हसन में तलगुप्पा-नीलमंगला 400 केवी लाइन के एक सर्किट के पहले से ही एलआईएलओ किए गए खंड का सीएन'हल्ली में एलआईएलओ (25 किमी) या ii) सीएन'हल्ली में तलगुप्पा-नीलमंगला 400 केवी डी/सी लाइन के एक अन्य सर्किट का एलआईएलओ (25 किमी) और हसन में तलगुप्पा-नीलमंगला 400 केवी लाइन के एक	•~25 किमी और ~25 किमी	30 माह

		सर्किट के एलआईएलओ किए गए खंड का सीएन'हल्ली तक विस्तार करके हसन-सीएन'हल्ली 400 केवी डी/सी लाइन (25 किमी) बनाना।			

2. बोली प्रक्रिया समन्वयक की नियुक्ति विद्युत मंत्रालय द्वारा इस संबंध में जारी और समय-समय पर संशोधित दिशानिर्देशों में निर्धारित शर्तों के अध्यधीन होगी।

3. बीपीसी तकनीकी विकल्पों के माध्यम से रास्ते के अधिकार (आरओडब्ल्यू) की चौड़ाई में कमी की गणना के लिए सीईए की दिनांक 24.09.2024 की समिति की रिपोर्ट के अनुसार आरओडब्ल्यू अनुकूलन सुनिश्चित करेंगे।

4. इसके अलावा, पीएम गति शक्ति पोर्टल और भौतिक सर्वेक्षण पर सत्यापन के बाद ही मार्ग को अंतिम रूप दिया जाना चाहिए।

[फा. सं. 15/3/2018-ट्रांस-भाग(4)]

नाओरेम इंद्रकुमार सिंह, अवर सचिव (पारेषण)

MINISTRY OF POWER

NOTIFICATION

New Delhi, the 27th March, 2025

S.O. 1478(E).—In exercise of the powers conferred by sub-para 3.2 of Para 3 of the Guidelines circulated under Section 63 of the Electricity Act, 2003 (No. 36 of 2003), the Central Government, on the recommendations of 28th meeting of National Committee on Transmission, hereby notifies the following transmission schemes under TBCB mode, with details of respective Bid-Process Coordinator (BPC): -

<table>
<tr><th>Sl No.</th><th>Name & Scope of the Transmission Scheme</th></tr>
<tr><td>1.</td><td>
Transmission System for Kurnool-IV REZ - Phase-II (3 GW)
Tentative implementation timeframe: Progressively from 24 months to 30 months from the date of SPV transfer
BPC: PFC Consulting Limited
Scope:
<table>
<tr><th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity/km</th><th>Schedule</th></tr>
<tr><td>1.</td><td>Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs</td><td>•400/220 kV, 500 MVA, ICTs – 4 nos.
•400 kV ICT bays – 4 nos.
•400 kV Bus Sectionalizer: 1 set
•220 kV ICT bays – 4 nos.
•220 kV Bus Sectionalizer: 1 set
•220 kV Bus Coupler (BC) Bay – 1 no.
•220 kV Transfer Bus Coupler (TBC) Bay – 1 no.</td><td>24 months</td></tr>
<tr><td>2.</td><td>220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects</td><td>•220 kV line bays – 5 nos.</td><td>24 months</td></tr>
<tr><td>3.</td><td>400 kV line bay at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects</td><td>•400 kV line bay – 1 no.</td><td>24 months</td></tr>
<tr><td>4.</td><td>Augmentation of Kurnool-IV PS by 765/400 kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs</td><td>•765/400 kV, 1500 MVA, ICTs – 2 nos.
•765 kV ICT bays – 2 nos.</td><td>30 months</td></tr>
</table>
</td></tr>
</table>

			•400 kV ICT bays – 2 nos. •400/220 kV, 500 MVA, ICTs – 6 nos. •400 kV ICT bays – 6 nos. •220 kV ICT bays – 6 nos. •220 kV Bus Sectionalizer: 1 set •220 kV Bus Coupler (BC) Bay – 1 no. •220 kV Transfer Bus Coupler (TBC) Bay – 1 no.		
	5.	220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	•220 kV line bays – 8 nos.	30 months	
	6.	400 kV line bay at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	•400 kV line bay – 1 no.	30 months	
	7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard **Future Space Provisions:** 765/400 kV, 1500 MVA, ICTs – 2 nos. 765 kV ICT bays – 2 nos. 400 kV ICT bays – 2 nos. 765 kV line bays – 8 nos. (with provision for SLR) 400 kV line bays – 8 nos. (with provision for SLR) 400 kV Bus Sectionalizer: 1 set **Future Space Provisions for 220 kV switchyard:** 400/220 kV, 500 MVA, ICTs – 10 nos. 400 kV ICT bays – 10 nos. 220 kV ICT bays – 10 nos. 220 kV line bays – 16 nos. 220 kV Bus Sectionalizer: 3 set 220 kV Bus Coupler (BC) Bay – 4 nos. 220 kV Transfer Bus Coupler (TBC) Bay – 4 nos.	•765/400 kV, 1500 MVA, ICTs – 4 nos. (13x500 MVA incl. 1 spare unit) •765 kV ICT bay – 4 nos. •400 kV ICT bay – 4 nos. •765 kV line bays – 4 nos. (at Shadnagar for termination of LILO of Kurnool-IV – Bidar 765 kV D/c line) •765 kV, 330 MVAr Bus Reactors – 2 nos. (7x110 MVAr inc. 1 switchable spare unit) •765 kV Bus Reactor bays – 2 nos. •400 kV line bays – 4 nos. (at Shadnagar for termination of Shadnagar – Shadnagar (TGTRANSCO) and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c lines)	30 months	
	8.	LILO of Kurnool-IV – Bidar 765 kV D/c line at Shadnagar (about 50 km)	•~ 50 km	30 months	
	9.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/c line (about 50 km) {TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame}	•~ 50 km •400 kV line bays – 2 nos. (at Shadnagar (TGTRANSCO))	30 months	
	10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c	•~ 60 km	30 months	

		line (about 60 km)	•400 kV line bays – 2 nos. (at Kethiredipally (TGTRANSCO))		

2. Transmission System for Integration of Ananthapuram-II REZ - Phase-II (3 GW)

Tentative implementation timeframe: Progressively from 24 months to 30 months from the date of SPV transfer

BPC: REC Power Development and Consultancy Limited

Scope:

Sl. No.	*Scope of the Transmission Scheme*	*Capacity/km*	*Schedule*
1.	Augmentation of Ananthapuram-II PS by 400/220 kV, 1x500 MVA ICT	•400/220 kV, 500 MVA, ICT – 1 no. •400 kV ICT bay – 1 no. •400 kV Bus Sectionalizer: 1 set •220 kV ICT bay – 1 no. •220 kV Bus Sectionalizer: 1 set •220 kV Bus Coupler (BC) Bay – 1 no. •220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	24 months
2.	220 kV line bays at Ananthapuram-II PS for termination of dedicated transmission lines of RE generation projects	•220 kV line bays – 2 nos.	24 months
3.	400 kV line bays at Ananthapuram-II PS for termination of dedicated transmission line of RE generation projects	•400 kV line bays – 3 nos.	24 months
4.	Augmentation of Ananthapuram-II PS by 765/400 kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs	•765/400 kV, 1500 MVA, ICTs – 2 nos. •765 kV ICT bays – 2 nos. •400 kV ICT bays – 2 nos. •400/220 kV, 500 MVA, ICTs – 6 nos. •400 kV ICT bays – 6 nos. •220 kV ICT bays – 6 nos. •220 kV Bus Sectionalizer: 1 set •220 kV Bus Coupler (BC) Bay – 1 no. •220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	30 months
5.	220 kV line bays at Ananthapuram-II PS for termination of dedicated transmission lines of RE generation projects	•220 kV line bays – 10 nos.	30 months
6.	Establishment of 3x1500 MVA, 765/400 kV CN'Halli Station with 2x330 MVAr (765 kV) bus reactors **<u>Future Space Provisions:</u>** 765/400 kV, 1500 MVA, ICTs – 3 nos. 765 kV ICT bays – 3 nos. 400 kV ICT bays – 3 nos.	•765/400 kV, 1500 MVA, ICTs – 3 nos. (10x500 MVA incl. 1 spare unit) •765 kV ICT bay – 3 nos. •400 kV ICT bay – 3 nos. •765 kV line bays – 2 nos. (at CN'Halli for termination of CN'Halli – Ananthapuram-II	30 months

		765 kV line bays – 6 nos. (with provision for SLR) 400 kV line bays – 12 nos. (with provision for SLR) 400 kV Bus Sectionalizer : 1 set	PS 765 kV D/c line) •765 kV, 330 MVAr Bus Reactors – 2 nos. (7x110 MVAr inc. 1 switchable spare unit) •765 kV Bus Reactor bays – 2 nos. •400 kV line bays – 6 nos.		
	7.	Ananthapuram-II PS – CN'Halli 765 kV D/c line (about 180 km) with 330 MVAr SLR at Ananthapuram-II end on both circuits	•~ 180 km • 765 kV line bays –2 •765 kV, 330 MVAr SLR at Ananthapuram-II – 2 nos. (6x110 MVAr switchable units)	30 months	
	8.	LILO of one circuit of Talaguppa - Neelmangala 400 kV D/c line at CN'Halli (25 km)	•~ 25 km	30 months	
	9.	i) LILO at CN'Halli of already LILOed section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan (25 km) or ii) LILO of another circuit of Talaguppa - Neelmangala 400 kV D/c line at CN'Halli (25 km) and extension of LILOed section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan to CN'Halli to make Hassan - CN'Halli 400 kV D/c line (25 km)	•~ 25 km & ~ 25 km	30 months	

2. The appointment of the Bid Process Coordinator is subject to the conditions laid down in the Guidelines issued by Ministry of Power in this regard, amended from time to time.

3. BPCs shall ensure RoW optimization as per the CEA's Committee report dated 24.09.2024 for calculation of reduction of Right of Way (RoW) Width through Technological Options.

4. Further, the route must be finalised after validation on PM Gati Shakti portal and physical survey.

[F. No. 15/3/2018-Trans-Part(4)]

NAOREM INDRAKUMAR SINGH, Under Secy. (Transmission)

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GORAKHA NATH YADAVA Digitally signed by GORAKHA NATH YADAVA Date: 2025.03.30 16:54:53 +05'30'

ANNEXURE 'P/8'

सत्यमेव जयते

GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS

Central Registration Centre

Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that KURNOOL IV REZ POWER TRANSMISSION LIMITED is incorporated on this THIRTEENTH day of JUNE TWO THOUSAND TWENTY FIVE under the Companies Act, 2013 (18 of 2013) and that the company is Company limited by shares

The Corporate Identity Number of the company is **U42201DL2025GOI450108**

The Permanent Account Number (PAN) of the company is **AALCK9461F***

The Tax Deduction and Collection Account Number (TAN) of the company is **DELK30122B***

Given under my hand at Manesar this THIRTEENTH day of JUNE TWO THOUSAND TWENTY FIVE

Validity Unknown

Digitally signed by
DS MINISTRY OF CORPORATE AFFAIRS , CRC MANESAR 2
Date: 2025.06.13 16:37:45 IST

PRAMOD KUMAR

Assistant Registrar of Companies/ Deputy Registrar of Companies/ Registrar of Companies

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on mca.gov.in

Mailing Address as per record available in Registrar of Companies office:

KURNOOL IV REZ POWER TRANSMISSION LIMITED

Urjanidhi, First Floor, 1, Barakhamba Lane, Connaught Place, New Delhi, Central Delhi- 110001, Delhi

*as issued by Income tax Department

Form No. INC-33

e-MOA (e-Memorandum of Association)
[Pursuant to Schedule I (see Sections 4 and 5) to the Companies Act, 2013)]

Form language
(•) English ( ) Hindi

Refer instruction kit for filing the form

*All fields marked in * are mandatory*

*** Table applicable to company as notified under schedule I of the Companies Act, 2013**

(A - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY SHARES
B - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY GUARANTEE AND NOT HAVING A SHARE CAPITAL
C - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY GUARANTEE AND HAVING A SHARE CAPITAL
D - MEMORANDUM OF ASSOCIATION OF AN UNLIMITED COMPANY AND NOT HAVING SHARE CAPITAL
E - MEMORANDUM OF ASSOCIATION OF AN UNLIMITED COMPANY AND HAVING SHARE CAPITAL)

A - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY SHARES

Table A/B/C/D/E

1 The name of the company is

KURNOOL IV REZ POWER TRANSMISSION LIMITED

2 The registered office of the company will be situated in the State of

Delhi

3 (a) The objects to be pursued by the company on its incorporation are:

1. To develop Power System Network

To plan, promote and develop an integrated and efficient power transmission system network in all its aspects including planning, investigation, research, design and engineering, preparation of preliminary, feasibility and definite project reports, construction, operation and maintenance of transmission lines, sub-stations, load dispatch stations and communication facilities and appurtenant works, coordination of integrated operation of state, regional and national grid system, execution of turn-key jobs for other utilities/organizations and wheeling of power in accordance with the policies, guidelines and objectives laid down by the Central Government from time to time.

2. To study, investigate, collect information and data

	To study, investigate, collect information and data, review operation, plan, research, design and prepare Report, diagnose operational difficulties and weaknesses and advise on the remedial measures to improve, undertake development of new and innovative product connected with business of the Company as well as modernize existing EHV, HV lines and Sub-Stations. 3. To act as Consultants/ Technical Advisers of public/ private sector enterprises etc. To act as consultants, technical advisors, surveyors and providers of technical and other services to Public or Private Sector enterprises engaged in the planning, investigation, research, design and preparations of preliminary, feasibility and definite project reports, manufacture of power plant and equipment, construction, generation, operation and maintenance of power transmission system from power generating stations and projects, transmission, distribution and sale of power.
(b) *Matters which are necessary for furtherance of the objects specified in clause 3(a) are	1. To obtain authority etc. to carry out its objects To obtain license, approvals and authorization from Governmental Statutory and Regulatory Authorities, as may be necessary to carry out and achieve the Objects of the Company and connected matters which may seem expedient to develop the business interests of the Company in India and abroad. 2. To obtain charters, concession etc. To enter into any arrangement with the Government of India or with any State Government or with other authorities/ commissions, local bodies or

public sector or private sector undertakings, Power Utilities, Financial Institutions, Banks, International Funding Agencies and obtain such charters, subsidies, loans, advances or other money, grants, contracts, rights, sanctions, privileges, licenses or concessions whatsoever (whether statutory or otherwise) which the Company may think it desirable to obtain for carrying its activities in furthering the interests of the Company or its members.

3. To enter into Implementation/ Construction Agreement

To enter into any agreement, contract or any arrangement for the implementation of the power generation, evacuation, transmission and distribution system and network with Power/Transmission Utilities, State Electricity Boards, Vidyut Boards, Transmission Companies, Generation Companies, Licensees, Statutory bodies, other organizations (whether in Private, Public or Joint Sector Undertaking) and bulk consumers of power etc.

4. To carry on the business or purchasing, importing, exporting and trading power

To carry on the business or purchasing, importing, exporting and trading of power subject to the provisions of Electricity Act, 2003 and to supply electric power generated by other plants to distribution companies, trading companies, other generation companies and other Persons, and in this regard execute agreements with Central and State generating authorities, departments or companies, Independent Power Producers and other Persons.

5. To enter into Agreements; etc.

To secure the payments of

money, receivables on transmission and distribution of electricity and sale of fuel, as the case may be, to the State Electricity Boards, Vidyut Boards, Transmission Utilities, Generating Companies, Transmission Companies, Distribution Companies, State Governments, Licensees, statutory bodies, other organizations (whether in Private, Public or Joint Sector Undertaking) and bulk consumers of power etc. through Letter of Credits/ESCROW and other security documents.

6. To execute transmission service Agreements

To execute Transmission Service Agreements or other agreements for transmission of power to distribution, trading, and other companies, State Electricity Boards, State Utilities and any other organization and Persons.

7. To co-ordinate with Central Transmission Utility

To coordinate with the Central Transmission Utility for transmission of electricity under the provisions of Electricity Act 2003.

8. To borrow money

Subject to provisions of Sections 73, 179, 180 and other applicable provisions of the Companies Act, 2013 and subject to other laws or directives, if any, of SEBI/RBI, to borrow money in Indian rupees or foreign currencies and obtain foreign lines of credits/ grants/aids etc. or to receive money or deposits from public for the purpose of the Company's business in such manner and on such terms and with such rights, privileges and obligations as the Company may think fit. The Company may issue bonds/ debentures whether secured or unsecured; bills of exchange, promissory notes or other

securities, mortgage or charge on all or any of the immovable and movable properties, present or future and all or any of the uncalled capital for the time being of the Company as the Company may deem fit and to repay, redeem or pay off any such securities or charges.

9. To lend money

To lend money on property or on mortgage of immovable properties or against Bank guarantee and to make advances of money against future supply of goods and services on such terms as the Directors may consider necessary and to invest money of the Company in such manner as the Directors may think fit and to sell, transfer or to deal with the same.

10. To acquire, own, lease or dispose off the property

To own, possess, acquire by purchase, lease or otherwise rights, title and interests in and to, exchange or hire real estate, equipment, Transmission lines, lands, buildings, apartments, plants, equipment, machinery, fuel blocks and hereditaments of any tenure or descriptions situated in India or abroad or any estate or interest therein and any right over or connected with land so situated and turn the same to account in any manner as may seem necessary or convenient for the purpose of business of the Company and to hold, improve, exploit, re-organize, manage, lease, sell, exchange or otherwise dispose of the whole or any part thereof.

11. To deal in Scrips/Govt. Securities

Subject to applicable provisions of law, to subscribe for, underwrite, or otherwise acquire, hold, dispose of and deal with the shares, stocks, debentures or

other securities and titles of indebtedness or the right to participate in profits or other similar documents issued by any Government authority, Corporation or body or by any company or body of persons and any option or right in respect thereof.

12. To create funds and appropriate profits

To create any depreciation fund, reserve fund, sinking fund, insurance fund, gratuity, provident fund or any other fund, for depreciation or for repairing, improving extending or maintaining any of the properties of the Company or for any other purposes whatsoever conducive to the interests of the Company.

13. To purchase or otherwise acquire companies

To acquire shares, stocks, debentures or securities of any company carrying on any business which this Company is entitled to carry on or acquisition of undertaking itself which may seem likely or calculated to promote or advance the interests of the Company and to sell or dispose of or transfer any such shares, stocks or securities and the acquired undertaking.

14. To enter into partnership Agreement or Merge /amalgamate

To enter into partnership or into any agreement for joint working, sharing or pooling profits, joint venture, amalgamation, union of interests, co-operation, reciprocal concessions or otherwise or amalgamate with any person or company carrying on or engaged in or about to carry on or engaged in any business or transaction in India or abroad which the Company is authorized to carry on or engage in any business undertaking

having objects identical or similar to, as are being carried on by this Company.

15. To have agencies and branch offices in India and abroad

To establish and maintain agencies, branch offices and local agencies, to procure business in any part of India and world and to take such steps as may be necessary to give the Company such rights and privileges in any part of the world as deemed proper in the interest of the Company.

16. To promote institutions or other companies

To promote and undertake the formation of any institution or Company or subsidiary company or for any aforesaid objects intended to benefit the Company directly or indirectly and to coordinate, control and guide their activities.

17(a) To acquire know how and import-export of machinery and tools etc.

To negotiate and enter into agreements and contracts with domestic and foreign companies, persons or other organizations, banks and financial institutions, in relation to the business of the Company including that of technical know-how, import, export, purchase or sale of plant, machinery, equipment, tools, accessories and consumables, financial assistance and for carrying out all or any of the objects of the Company.

17(b) To negotiate and enter into agreements etc.

To negotiate and enter into agreements and contracts for execution of turnkey jobs, works, supplies and export of plant, machinery, tools and accessories etc.

18. To enter into contracts/arrangements in connection with issue of shares/securities.

Upon and for the purpose of any issue of shares, debentures or any other securities of the Company, to enter into agreement with intermediaries including brokers, managers of issue/commission agents and underwriters and to provide for the remuneration of such persons for their services by way of payment in cash or issue of shares, debentures or other securities of the Company or by granting options to take the same or in any other manner as permissible under the law.

19. To enter into contracts of indemnity and/or guarantee

To enter into contracts of indemnity and get guarantee and allocations for the business of the Company.

20. To arrange for Training and Development

To make arrangements for training of all categories of employees and to employ or otherwise engage experts, advisors, consultants etc. in the interest of achieving the Company's objects.

21. To promote conservation, protect environment, theft etc.

To promote conservation and protection of electricity from theft, safety of life and to protect environments including air, land and water etc.

22. To provide for welfare of employees

To pay and provide for the remuneration, amelioration and welfare of persons employed or formerly employed by the

Company and their families providing for pension, allowances, bonuses, other payments or by creating for the purpose from time to time the Provident Fund, Gratuity and other Funds or Trusts. Further to undertake building or contributing to the building or houses, dwellings or chawls by grants of money, or by helping persons employed by the Company to effect or maintain insurance on their lives by contributing to the payment of premium or otherwise and by providing or subscribing or contributing towards educational institutions, recreation, hospitals and dispensaries, medical and other assistance as the Company may deem fit.

23. To take Insurance

To ensure any rights, properties, undertakings, contracts, guarantees or obligations or profits of the Company of every nature and kind in any manner with any person, firm, association, institution or company.

24. To share the profits pay, dividends and provide bonus etc

To distribute among members of the Company dividend including bonus shares out of profits, accumulated profits or funds and resources of the Company in any manner permissible under law.

25. To institute and defend the legal proceedings

To institute, conduct, defend, compound or abandon any legal proceedings by or against the Company or its officers or otherwise concerning the affairs of the Company and also to compound and to allow time for payment or satisfaction of any debts or recovery due, claims or demands by or against the Company and to refer any claims

or demands by or against the Company or any differences arising in execution of contracts to conciliation and arbitration and to observe, comply with and/or challenge any awards preliminary, interim or final made in any such arbitration.

26. To pay and subsequently write off preliminary expenses

To pay out of the funds of the Company all costs, charges, expenses and preliminary and incidental to the promotion, formation, establishment and registration of the Company or other expenses incurred in this regard.

27. To contribute and make donations

Subject to provisions of Companies Act, 2013 to contribute money or otherwise assist to charitable, benevolent, religious, scientific national, defense, public or other institutions or objects or purposes.

28. To open accounts in Banks

To open an account or accounts with any individual, firm or company or with any bank bankers or shrofs and to pay into and withdraw money from such account or accounts.

29. To accept gifts, donations etc.

To accept gifts, bequests, devises and donations from members and others and to make gifts to members and others of money, assets and properties of any kind.

30. To pursue the objects of the Company as principal, agents, trustee or in any other capacity

To carry out all or any of the objects of the company and do all or any of the above things in any part of the world and either

as principal, agent, contractor or trustee or otherwise and either alone or in conjunction with others.

31. To enter into Contracts

To negotiate and/or enter into agreement and contract with individuals, companies, corporations, foreign or Indian, for obtaining or providing technical, financial or any other assistance for carrying on all or any of the objects of the Company and also for the purpose of activating, research, development of projects on the basis of know-how and/or financial participation and for technical collaboration, and to acquire or provide necessary formulate and patent rights for furthering the objects of the company.

32. To contribute towards promotion of trade and industry

To aid pecuniary or otherwise, any association, body or movement having for its object the solution, settlement or surmounting of industrial or labour problems or trouble or the promotion of industry or trade.

33. To take all necessary steps for winding up of the company

Subject to the provisions of Companies Act, 2013 or any amendment or re-enactment thereof in the event of winding up to distribute among the members in specie any property of the Company or any proceeds of sale on disposal of any property in accordance with the provisions of the Act.

34. To do and perform all coincidental and ancillary acts for the attainment of its objects

To do all such other things as may be deemed incidental or

conducive to the attainment of the above Objects or any of them and to carry on any business which may seem to the Company capable of being conveniently carried in connection with any of the Company's Objects or calculated directly or indirectly to enhance the value of or render profitable any of the Company's property or rights.

35. To take up studies and research experiments.

To establish, provide, maintain and conduct or otherwise subsidies research laboratories and experimental workshops for scientific, technical or researches, experiments and to undertake and carry on directly or in collaboration with other agencies scientific and technical research experiments and tests of all kinds and to process, improve and invent new products and their techniques of manufacture and to promote, encourage, reward in every manner studies and research, scientific and technical investigations and inventions of any kind that may be considered likely to assist, encourage and promote rapid advances in technology, economies, import substitution or any business which the Company is authorized to carry on.

36. To evolve scheme for restructuring or arrangement.

Subject to provisions of the Companies Act,2013, to evolve scheme for restructuring or arrangement, to amalgamate or merge or to enter into partnership or into any consortium or arrangement for sharing of profits, union of interests, co-operation, joint venture with any Person or Persons, partnership firm/firms, or company or companies carrying on or engaged in any operation capable of being

conducted so conveniently in co-operation with the business of the Company or to benefit the Company or to the activities for which the Company has been established.

37. To apply for purchase, or otherwise acquire.

To apply for purchase, or otherwise acquire any trademarks, patents, brevets, inventions, licenses, concessions and the like, conferring any exclusive or nonexclusive or limited rights to use, or any secret or other information as to any invention which may be capable of being used for any of the purposes of the Company, or the acquisition of which may benefit the Company and to use, exercise, develop or grant licenses in respect of or otherwise turn to account the property, rights or information so acquired.

38. To sell, dispose or hive off an undertaking of the Company

To sell, dispose or hive off an undertaking of the Company or any part thereof for such consideration as the Company may think fit and in particular for shares, debentures or securities of any other association, corporation or company.

39. To sell, improve, manage, develop

To sell, improve, manage, develop, exchange, loan, lease or let, under-lease, sub - let, mortgage, dispose of, deal with in any manner, turn to account or otherwise deal with any rights or property of the Company.

40. To outsource parts of its activities

To outsource parts of its activities to achieve higher efficiencies and throughputs in

the achievement of its business goals.

4 The liability of the member(s) is limited, and this liability is limited to the amount unpaid if any, on the shares held by them.

5 Every member of the company undertakes to contribute:

(i) to the assets of the company in the event of its being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the company or of such debts and liabilities as may have been contracted before he ceases to be a member; and

(ii) to the costs, charges and expenses of winding up (and for the adjustment of the rights of the contributories among themselves), such amount as may be required, not exceeding * [ ] rupees.

(iii) The share capital of the company is [100000] rupees, divided into

10000	Equity Share	Shares of	10	Rupees each	

6

☑ We, the several persons, whose names and address are subscribed, are desirous of being formed into a company in pursuance of this memorandum of association, and we respectively agree to take the number of shares in the capital of the company set against our respective names:

☐ I, whose name and address is given below, am desirous of forming a company in pursuance of this memorandum of association and agree to take all the shares in the capital of the company:

☐ We, the several persons, whose names and addresses are subscribed, are desirous of being formed into a company in pursuance of this memorandum of association:

Subscriber Details					
S. No.	***Name, Address, Description and Occupation**	**DIN / PAN / Passport number**	**No. of shares taken**	**DSC**	**Dated**
1	Sachin Shukla S/o Raj Kumar Shukla R/o 4th Floor, House No 6, H1 Block, Good Earth City Center, South City II, Gurgaon - 122018, Haryana, India Occupation-Service (As Nominee of PFC Consulting Limited)	0*6*3*6*	100 Equity,0 Preference		10/06/2025
2	Neeraj Singh S/o Dayashankar Singh R/o C-703 F-2, The Crescent Appartment, Sector-50, Noida, Gautam Budha Nagar, Uttar Pradesh - 201301 Occupation-Service (As Nominee of PFC Consulting Limited)	0*6*3*9*	100 Equity,0 Preference		10/06/2025
3	Rishab Jain S/o Naveen Jain R/o T-11, First Floor, Green Park Extension, Green Park Market, New Delhi - 110016 Occupation- Service (As Nominee of PFC Consulting Limited)	0*4*5*6*	100 Equity,0 Preference		10/06/2025
4	PFC Consulting Limited having R/o First Floor, Urjanidhi, 1, Barakhamba Lane, Connaught Place, New Delhi 110001, thorough its Authorised representative Sachin Arora S/o Prem Lal Arora R/o F-5, 1903, Supertech, Eco, Village, 1, Noida, Gautam Buddh Nagar, Uttar Pradesh-201301, Occupation-Service	A*G*A*4*4*	9400 Equity,0 Preference		10/06/2025
5	Sanjay Kumar Nayak S/o Jagabandhu Nayak R/o K 713, Jalvayu Tower, Sector-56, Gurgaon, Haryana - 122011 Occupation - Service (As Nominee of PFC Consulting Limited)	0*1*7*9*	100 Equity,0 Preference		10/06/2025
6	Rakesh Mohan S/o Lakshman Singh R/o Flat No 364, Sunehari Bagh Appartment, Sector-13 Rohini, Rohini, Sector-14, Delhi - 110085 Occupation - Service (As Nominee of PFC Consulting Limited)	0*6*4*2*	100 Equity,0 Preference		10/06/2025
7	Naveen Kumar S/o Jagdish Chander R/o F-024, Assotech Windsor Court Sector 78, Noida, Uttar Pradesh, India 201301 Occupation- Service (As Nominee of PFC Consulting Limited)	1*4*7*5*	100 Equity,0 Preference		10/06/2025

Total shares taken	10000 Equity,0 Preference		

Signed before me					
Membership type of the witness ***(ACA/FCA/ACS/FCS/ACMA/FCMA)***	***Name of the witness**	***Address, Description and Occupation**	**DIN / PAN / Passport number / Membership number**	**DSC**	**Dated**
FCS	Nitin Kochhar	Flat No. 608, Sixth Floor, Pragati Tower - 26, Rajendra Place, New Delhi - 110008 Company Secretary	6*3*		10/06/2025

7 Shri / Smt _____ _____ Of _____ resident of _____ aged _____ years shall be the nominee in the event of death of the sole member.

Form No. INC-34

e-AOA (e-Articles of Association)

[Pursuant to Section 5 of the Companies Act, 2013 and rules made thereunder read with Schedule I]

सत्यमेव जयते

Form language

(•) English ( ) Hindi

Refer instruction kit for filing the form

*All fields marked in * are mandatory*

Table applicable to company as notified under schedule I of the Companies Act, 2013 *(F, G, H)*

F

Table F / G / H (basis on the selection of above-mentioned field) as notified under schedule I of the companies Act, 2013 is applicable to

(F – a company limited by shares
G– a company limited by guarantee and having a share capital
H – a company limited by guarantee and not having share capital)

F - A COMPANY LIMITED BY SHARES

The name of the company is

KURNOOL IV REZ POWER TRANSMISSION LIMITED

Check if not applicable	Check if altered	Article No.	Description
			Interpretation
☐	☑		• 1. Interpretation clause In the interpretation of these Articles unless repugnant to the subject or context-Act The Act means The Companies Act 2013 as amended from time to time and includes any statutory modification or re-enactment thereof for the time being in force. Articles of the Company Articles means the articles of association of a company as originally framed or as altered from time to time or applied in pursuance of any previous company law or of this Act. Auditor(s) Auditor(s) mean and include persons appointed as such for the time being by the Comptroller Auditor General of India. Board or Board of Directors Board or Board of Directors in relation to a company means the collective body of the directors of the company. Books of Account Books of account includes records maintained in respect of (i) all sums of money received and expended by a company and matters in relation to which the receipts and expenditure take place (ii) all sales and purchases of goods and services by the company (iii) the assets and liabilities of the company and (iv) the items of cost as may be prescribed under section 148 in the case of a company which belongs to any class of companies specified under that section. Capital Capital means the share capital for the time being raised or authorized to be raised for the purpose of the Company. Company Shall means KURNOOL IV REZ POWER TRANSMISSION LIMITED Debenture Debenture includes debenture stock bonds or any other instrument of a company evidencing a debt whether constituting a charge on the assets of the company or not. Director(s) Director means a director appointed to the Board of a company under Section 2(34) of the Act. Dividend Dividend includes any interim dividend. Financial Institution Financial Institution includes a scheduled bank and any other financial institution defined or notified under the Reserve Bank of India Act1934. Gender Words importing the masculine gender also include the feminine gender. Generation Company Generation Company shall mean any entity

		engaged in the business of generation of electricity. In Writing and Written In writing and Written include printing lithography and other modes of representing or reproducing words in a visible form. key managerial personnel key managerial personnel in relation to a company means (i) the Chief Executive Officer or the managing director or the manager (ii) the company secretary (iii) the whole-time director (iv) the Chief Financial Officer and (v) such other officer as may be prescribed. Meeting or General Meeting Meeting means Annual General Meeting or Extraordinary General Meeting of Members duly called and constituted including an adjourned meeting. In the context of Board of Directors it shall mean the meeting of the Directors including an adjourned meeting. Member Member in relation to a company means (i) the subscriber to the memorandum of the company who shall be deemed to have agreed to become member of the company and on its registration shall be entered as member in its register of members (ii) every other person who agrees in writing to become a member of the company and whose name is entered in the register of members of the company (iii) every person holding shares of the company and whose name is entered as a beneficial owner in the records of a depository. Month Month means a calendar month. Office Office means the Registered Office of the company for the time being. paid-up share capital or share capital paid-up means such aggregate amount of money credited as paid-upas is equivalent to the amount received as paid up in respect of shares issued and also includes any amount credited as paid-up in respect of shares of the company but does not include any other amount received in respect of such shares by whatever name called. Persons Persons include Corporations and firms as well as individuals. Power Transmission Utility Power Transmission Utility shall mean any entity engaged in the business of power transmission. Proxy Proxy includes Attorney duly constituted under a valid Power of Attorney. Project-In-Charge A Director of the Company designated as Project In-charge for administrating day to day activities of the Company. Public Company Public Company means a company which a. is not a private company and b. has a minimum paid-up share capital as may be prescribed Provided that a company which is a subsidiary of a company not being a private company shall be deemed to be public company for the purposes of this Act even where such subsidiary company continues to be a private company in its articles. Registrar Registrar means a Registrar an Additional Registrar a Joint Registrar a Deputy Registrar or an Assistant Registrar having the duty of registering companies and discharging various functions under this Act. Register of Members Register of Members means the Register of Members to be kept pursuant to the Act. Related Party Section 2(76)of the Act describes related party with reference to a company which means (i) a director or his relative (ii) a key managerial personnel or his relative (iii) a firm in which a director manager or his relative is a partner (iv) a private company in which a director or manager is a member or director (v) a public company in which a director or manager is a director or holds along with his relatives more than two per cent. of its paid-up share capital (vi) any body corporate whose Board of Directors managing director or manager is

			accustomed to act in accordance with the advice directions or instructions of a director or manager (vii) any person on whose advice directions or instructions a director or manager is accustomed to act Provided that nothing in sub-clauses (vi) and (vii) shall apply to the advice directions or instructions given in a professional capacity (viii) any company which is (A) a holding subsidiary or an associate company of such company or (B) a subsidiary of a holding company to which it is also a subsidiary (ix) such other person as may be prescribed. Seal Means the common seal of the company for the time being. Securities Exchange Board Securities and Exchange Board means the Securities and Exchange Board of India established undersection 3 of the Securities Exchange Board of India Act 1992. Securities Securities means the securities as defined in clause (h) of section 2 of the Securities Contracts (Regulation) Act 1956. Share Means a share in the share capital of a company and includes stock. Share Capital Share Capital means the total equity share capital of the Company agreed to be issued and called the Authorized Capital of the Company as mentioned in the Memorandum of Association of the Company. Singular Number Words importing the singular number include where the context admits the plural number and vice-versa. State Electricity Board State Electricity Board means the Electricity Board or Vidyut Board or any other body by whatever name called set up by the State Governments under Electricity (Supply) Act 1948 as amended which expression shall include its successors administrators authorized representatives and permitted assigns. Transmission Company Transmission Company shall mean any entity engaged in the business of transmission of electricity. Year or Financial Year Meaning of Words Year means English calendar year and Financial Year shall have the meaning assigned thereto by Section 2(41) of the Act. Unless the context otherwise requires words or expressions contained in these regulations shall bear the same meaning as in the Act or any statutory modification there of in force at the date at which these regulations become binding on the company. Marginal Notes Marginal Notes are for ease of reference only and shall not affect the construction and interpretation of these Articles. Other Expressions Other words or expressions contained in these Articles shall bear the same meaning as a reassigned to them in the Act or any statutory modifications thereof. 2. Table F not to Apply The regulations contained in Table F in the First Schedule to the Companies Act 2013 shall not apply except to the extent that the same are repeated or contained or expressly made applicable by these Articles or by the Act but the regulations for the management of the Company and for the observance of the members thereof and their representatives shall subject to any exercise of the statutory powers of the Company with reference to the repeal or alteration of or addition to its regulations by Special Resolution as prescribed by the said Companies Act 2013 be such as contained in these Articles. 3. Business Purpose The Company shall be engaged in the business of Transmission of Electricity including construction operation maintenance and other related activities.
			Share Capital and Variation of rights

☐ ☑	II 1	• 4. Share Capital Increase of capital by the Company and how carried in to effect The Authorized Share Capital of the Company is as mentioned in clause V of the Memorandum of Association of the Company. The Company in General Meeting may from time to time by resolution increase its authorized share capital by creation of new shares such increase to be of such aggregate amount and to be divided in to shares of such respective amounts as may be determined by the General Meeting subject to the provisions of the Act.
☐ ☑	2	• 5. New Capital same as existing capital Any capital raised by the creation of new shares shall be considered as part of the original capital and shall be subject to the same provisions herein contained with reference to the payment of calls and installments forfeiture lien surrender transfer and transmission voting and otherwise.
☐ ☑	3	• 6. Reduction of Capital The Company may from time to time by special resolution reduce its capital which may be paid off either with or without extinguishing or reducing liability on shares which is in excess of the wants of the company or canceling such share capital which has been lost or is unrepresented by available assets.
☐ ☑	4	• 7. Subdivision and consolidation of shares The Company in general meeting may from time to time sub-divide or consolidate its shares or any of them and exercise any of the other powers conferred by Section 61 of the Act and shall file with the Registrar such notice of exercise of any such powers as may be required by the Act.
☐ ☑	5	• 8. Register and Index of Members Beneficial owners The Company shall cause to be kept a Register and also an Index of Members and Debenture-holders in accordance with Sections 88 of the Act. Further as permissible under Section 88 of the Act the register and Index of beneficial owners maintained by a Depository shall be deemed to be the corresponding Register and Index for the purpose of this Act.
☐ ☑	6	• 9. Foreign Register of members The Company shall be entitled to keep in any country outside India a Foreign Register of members resident in that country subject to compliance with the provisions of Section 88 of the Act.
☐ ☑	7	• 10. Shares to be numbered distinctively The shares in the capital held otherwise than in the depository mode shall be numbered progressively in sequence and given distinctive number Except and in the manner herein mentioned no share shall be forfeited or surrendered and shall continue to bear the number which it had originally borne.
☐ ☑		• 11. Share Application Money The Company shall ensure that the share application money paid is held by it in an account with a Scheduled Commercial Bank (in the name of the Company). 12. Further Issue of Capital (a) Where at any time the Company wishes to raise its subscribed share capital by issue of further shares it shall first offer such shares to its existing shareholders in proportion to their existing shareholdings on the date of such issue. Such offer to the existing shareholders shall be in

		accordance with the provisions of Section 62 of the Act. (b) The Company shall subject to applicable provisions of the Act and Articles of Association make uniform calls from time to time upon all the Shareholders in respect of the moneys remaining unpaid on the issued share capital within 30 days or such time as the Board may deem fit and appropriate. 13. Shares under control of Directors Subject to the provisions of these Articles and of the Act the shares including any shares forming part of any increased capital of the Company shall be under the control of the Directors who may allot or otherwise dispose off the shares to such persons in such proportion on such terms and conditions and at such times as the Directors may think fit and subject to the sanction of the Company in General Meeting subject to the provisions of Sections 52 and section 54 of the Act at a premium or par and such option being exercisable for such time and for such consideration as the Directors think fit. The Board shall cause to be filed the returns as to allotment provided for in Section 39(4) of the Act. 14. Issue of shares for consideration other than cash Subject to these Articles and the provisions of the Act if any the Board may issue and allot shares in the capital of the Company as payment or in consideration or as part payment or in part consideration of the purchase or acquisition of any property or for services rendered to the Company in the conduct of its business and shares which may be so issued or allotted shall be credited or deemed to be credited as fully paid up or partly paid up shares. 15. Power of Company to Issue Shares The Company in General Meeting may subject to the provisions of Section 42 62 of the Act provide that any shares (whether forming part of the original capital or of any increased capital of the Company) shall be offered to such persons (whether a Member or not) in such proportion and on such terms and conditions of the Act) at a premium or at par or at a discount as such General Meeting shall determine and with full power to give any person (whether a Member or not) the option to call for or be allotted shares of any class of the Company either subject to compliance with the provisions of Sections 52 and 54 of the Act at a premium or at par or at discount such option being exercisable at such times and for such consideration as may be directed by such General Meeting or the Company in General Meeting may make any other provisions whatsoever for the issue allotment or disposal of any shares. 16. Acceptance of shares Any person applying for shares in the Company followed by an allotment of any shares and subscribers to the Memorandum shall be a shareholder within the meaning of these Articles and every person whose name is on the Register of Members shall for the purposes of these Articles be a Member of the Company. 17. Deposit call to be a debt payable Immediately The Money (if any) which the Board shall on the application for allotment of any shares being made by them require or direct to be paid by way of deposit call or otherwise in respect of any shares allotted by them shall immediately on the insertion of the name of the allottee in the Register of Members as the name of the holder of such shares become a debt due to and recoverable by the Company from the allottee thereof and shall be paid by him accordingly. 18. Liability of Members Every Member or his heirs executors or administrators shall pay to the

	8	Company the portion of the capital and premium if any represented by or payable on his share or shares which may for the time being remain unpaid thereon in such amounts at such time or times and in such manner as the Board shall from time to time in accordance with the Companys regulations require or fix for the payment thereof. 19. Share Certificates A certificate issued under the common seal of the company specifying the shares held by any person shall be prima facie evidence of the title of the person to such shares. (a) Every Member or allottee of shares who is holding such shares in the physical form shall be entitled without payment to receive certificate specifying the name of the person in whose favour it is issued the shares to which it relates and the amount paid-up thereof. Such certificates shall be issued only in pursuance of a resolution passed by the Board and on surrender to the Company of the letter of allotment or the fractional coupons of requisite value save in case of issues against letters of acceptance or of renunciation or in cases of issue of bonus shares. Every such certificate shall be issued under the seal of the Company which shall be affixed in the presence of two Directors and the Secretary or some other person appointed by the Board for the purpose and the two directors and the Secretary or other persons as authorized by the Board shall sign the share certificate. Provided if the composition of the Board permits of it at least one of the aforesaid two directors shall be a person other than a Managing or a Whole Time Director. Particulars of every share certificate issued shall be entered in the Register of Members against the name of the person to whom it has been issued indicating the date of issue. For issue of any further duplicate certificate the Board shall be entitled to charge such amount which shall not exceed fifty Rupees per Certificate. (b) A Director may sign a share certificate by affixing his signature thereon by means of any machine equipment or other mechanical means such as engraving in metal or lithography but not by means of a rubberstamp. PROVIDED that the Director shall be personally responsible for the safe custody of such machine equipment or other material used for the purpose. 20. Renewal of Share Certificates (a) No certificate of any share or shares shall be issued either in exchange for those which are sub-divided or consolidated or in replacement of those which are defaced mutilated torn or old decrepit destroyed or where the pages on the reverse for recording transfers have been duly utilized unless the certificate in lieu of which it is issued is surrendered to the Company and for issuing such share certificate the company may charge such fee as the Board thinks fit not exceeding twenty rupees per certificate. (b) When anew share certificate has been issued in pursuance of clause (a) of this Article it shall state on the face of it and against the stub or counterfoil to the effect that it is Issued in lieu of share certificate No sub-divided replaced on consolidation. (c) If a share certificate is lost or destroyed a new certificate in lieu thereof shall be issued only with the prior consent of the Board and on such reasonable terms such as furnishing supporting evidence and indemnity and the payment of out-of-pocket expenses incurred by the Company in investigating evidence produced as the Board thinks fit. (d) When anew share certificate has

		been issued in pursuance of clause (c) of this Article it shall state on the face of it and against the stub or counterfoil to the effect that it is duplicate issued in lieu of share certificate No. and the word duplicate shall be stamped or printed prominently on the face of the share certificate. (e) Where anew share certificate has been issued in pursuance of clause (a) and or clause(c) of this Article particulars of every such share certificate shall be entered in a Register of Renewed and Duplicate Share Certificates indicating against the name(s) of the person(s) to whom the certificate is issued the number and date of issue of the share certificate in lieu of which the new certificate is issued and the necessary changes indicated in the Register of Members by suitable cross reference in the Remarks column. (f) All blank forms to be used for issue of share certificates shall be printed and the printing shall be done only on the authority of a resolution of the Board and the blank forms shall be consecutively machine-numbered and the forms and the blocks engravings facsimiles relating to the printing of such forms shall be kept in the custody of the Secretary or of such other person as the Board may appoint for the purpose and the Secretary or the other person aforesaid shall be responsible for rendering an account of these forms to the Board. (g) The Committee of the Board Company Secretary of the Company or a Director specifically authorized by the Board for such purpose shall be responsible for the maintenance preservation and safe custody of all books and documents relating to the issue of share certificates including the blank forms of share certificates referred to in clause (f). (h) All books referred to in clause (g) shall be preserved in good order for not less than thirty years and in disputed cases shall be preserved permanently. 21. Joint holders (a) Where two or more persons are registered as the holders of any share they shall be treated as as ingle shareholder and shall be deemed to hold the same as joint holders with benefits of survivorship subject to the following and other provisions contained in these Articles. (b) The Company shall be entitled to decline to register more than four persons as the holders of any share. (c) The Joint holders of any share shall be liable severally as well as jointly for and in respect of all calls and other payments which ought to be made in respect of such shares. (d) On the death of any such joint holder the survivor or survivors shall be the only person or persons recognized by the Company as having any title to the share but the Directors may require such evidence of death as they may deem fit and nothing herein contained shall be taken to release the estate of the deceased joint holder from any liability on shares held by him jointly with any other person. (e) Delivery of share certificate to any one of such joint holders shall be deemed to be delivery to all of them and any one of such joint holders may give effectual discharge and receipts for any dividends or other moneys payable in respect of such shares and or in respect of any other obligation of the Company towards them. (f) Only the person whose name stands in the Register of Members as the first of the joint holders of any shares shall be entitled to delivery of the certificate relating to such share or to receive notices from the Company and any notice given to such person shall be deemed proper notice to all joint holders. (g) Any one of two or more joint holders may vote at any meeting either

			personally or by proxy in respect of such share as if he were solely entitled thereto and if more than one of such joint holders be present at any meeting personally or by proxy the holder whose name stands first or higher (as the case may be) on the Register of Members in respect of such share shall alone be entitled to vote in respect thereof. PROVIDED always that a member present at any meeting personally shall be entitled to vote in preference to a person present by proxy although the name of such person present by proxy stands first on the Register of Members in respect of such shares. 22. Terms and Conditions of Preference Shares Subject to the provisions of section 55 any preference shares may with the sanction of an ordinary resolution be issued on the terms that they are to be redeemed on such terms and in such manner as the company before the issue of the shares may by special resolution determine.
			Lien
☐	☑	9	• 23. Company to have lien on shares The Company shall have a first and paramount lien upon all shares (other than fully paid up shares) registered in the name of each member (whether solely or jointly with others) and upon the sale proceeds thereof for all moneys(whether presently payable or not) called or payable at a fixed time in respect of all such shares(not being fully paid up) for all moneys presently payable by him or his estate to the Company. Any such lien shall extend to all dividends payable and bonuses declared from time to time declared in respect of such shares.
☐	☑	10	• 24. Enforcing lien by sale For the purpose of enforcing such lien the Board may sell the shares subject thereto in such manner as they shall think fit and for that purpose it may cause to be issued a duplicate certificate in respect of such shares and may authorize one of their Directors to execute a transfer thereof on behalf of and in the name of the Board. No sale shall be made until notice period for making call as aforesaid have expired and until notice in writing of the intention to sell shall have been made known to the shareholder for default in payment and default has been made by him in the payment of money called in respect of such shares for thirty days after the date of such notice. Upon issue of a duplicate certificate or certificates in lieu of the original share the certificate or certificates originally issued shall stand cancelled and become null and void and the same shall have no effect.
☐	☑	11	• 25. Application of proceeds of sale The net proceeds of any such sale shall be received by the Company and applied in or towards payment of such part of the amount as is presently payable and the residue if any shall (subject to a like lien for sums not presently payable as existed upon the shares before sale) be paid to the person entitled to the shares at the date of the sale.
☐	☑	12	• .
			Calls on shares
☐	☑		• 26. Directors may make calls The Board may from time to time subject to the terms on which any shares may have been issued and subject to the conditions of

	13	allotment by a resolution passed at a meeting of the Board (and not by resolution by circulation) make such callas it thinks fit upon the Members in respect of all moneys unpaid on the shares held by them respectively and each member shall pay the amount of every call so made on him to the person or persons and at the times and places appointed by the board. A call may be made payable by installments.
☐ ☑	14	• 27. Notice of calls Not less than thirty days notice in writing of any call shall be given by the Company specifying the time and place of payment and the person or persons to whom such call shall be paid.
☐ ☑	15	• 28. When call made A call shall be deemed to have been made at the time when the resolution of the Board authorizing such call was passed at a meeting of the Board and demand notice is issued.
☐ ☑	16	• 29. Calls may be revoked or postponed A call may be revoked or postponed at the discretion of the Board.
☐ ☑	17	• 30. Directors may extend time The Board may from time to time at its discretion extend the time fixed for the payment of any call and may extend such time as to all or any of the Members for reasons which the Board may consider satisfactory but no Member shall be entitled to such extension save as a matter of grace.
☐ ☑	18	• 31. Calls to carry interest If any Member fails to pay any call due from him on the day appointed for payment thereof or any such extension thereof as aforesaid he shall be liable to pay interest on the same from the day appointed for the payment thereof to the time of actual payment at rate not exceeding 10 per cent per annum as maybe decided by the Board but the Board may in its absolute discretion and in special circumstances waive or reduce the levy of interest as deemed appropriate. Sums deemed to be call Any sum which by the terms of issue of a share becomes payable on allotment or at any fixed date whether on account of the nominal value of the share or by way of premium shall for the purposes of these Articles be deemed to be a call duly made and payable on the date on which by the terms of issue the same becomes payable and in case of non-payment all the relevant provisions of these Articles as to payment of interest and expenses forfeiture or otherwise shall apply as if such sum had become payable by virtue of a call duly made and notified. 32. Sums deemed to be call Any sum which by the terms of issue of a share becomes payable on allotment or at any fixed date whether on account of the nominal value of the share or by way of premium shall for the purposes of these Articles be deemed to be a call duly made and payable on the date on which by the terms of issue the same becomes payable and in case of non-payment all the relevant provisions of these Articles as to payment of interest and expenses forfeiture or otherwise shall apply as if such sum had become payable by virtue of a call duly made and notified. 33. Partial payment not to preclude Forfeiture Neither the receipt by the Company of a portion of any money which shall from time to time be due from any Member to the Company in respect of his shares either by way of principal or interest nor any indulgence granted by the Company in respect of the

			payment of any such money shall preclude the Company from there after proceeding to enforce a forfeiture of such shares as here in after provided. 34. Payment in anticipation of calls may carry interest The Board may if it thinks fit agree to and in anticipation receive from any Member willing to advance the same all of calls money or any part of the amounts of his respective shares beyond the sums actually called up and upon the moneys so paid in advance or upon so much thereof from time to time and at any time thereafter as exceeds the amount of the calls then made upon and due in respect of the shares on account of which such advances are. made the Board may pay or allow interest at such rate as the Member paying the sum in advance and the Board agree upon. The Board may agree to repay at any time any amount so advanced or may at any time repay the same upon giving to the Member three months notice in writing. PROVIDED that moneys paid in advance of calls on any shares may carry interest but shall not confer a right to dividend or to participate in profits. (b) No Member paying any such sum in advance shall been titled to voting rights in respect of the moneys so paid by him until the same would but for such payment become presently payable.
			Transfer of shares
☐	☑	19	• 35. Register of Transfers The Company shall maintain a Register of Transfers and therein shall be fairly and distinctively enter the particulars of every transfer or transmission of any share in the physical form.
☐	☑	20	• 36. Form of transfer The instrument of transfer shall be in writing and in such form as prescribed under the Act. All the provisions of Section 56 of the Act shall be duly complied with in respect of all transfers and of the registration thereof. The Company shall not charge any fee for registration of a transfer of shares or debentures.
☐	☑	21	• 37. Instrument of Transfer to be completed and presented to the Company The Instrument of Transfer duly stamped and executed by the transferor and the transferee shall be delivered to the Company in accordance with the provisions of the Act. The instrument of transfer shall be accompanied by the Share Certificate or such evidences the Board may require to prove the title of transferor and his right to transfer the shares and every registered Instrument of Transfer shall remain in the custody of the Company until destroyed by order of the Board. Any instrument of transfer which the Directors may decline to register shall be returned to the person depositing the same.
☐	☑		• 38. Transferor deemed to be holder The transferor shall be deemed to be the holder of such shares until the name of the transferee shall have entered in the Register of Members in respect there of. Before the registration of a transfer the certificate or certificates of the shares must be delivered to the Company along with Transfer Deed. No transfer to insolvent etc. 39. No transfer shall be made to a person of unsound mind or to an insolvent. 40. Closure of Register of Members Debenture holders The Directors shall have power on giving not less than seven days previous notice as required by Section 91 of the Act to close the Register of Transfer Register of

		22	Members or Register of Debenture holders or the register of other security holders of the Company for any period or periods not exceeding in the aggregate forty-five days in each year (but not exceeding thirty days at any one time) as they maydetermine.41.Nomination by shareholder Every share-holder or debenture holder may at any time nominate in the prescribed manner a person to whom his shares or debenture shall vest in the event of his death as provided in Section 72 of the Act. 42. Title to shares of deceased holder In the event there is no nomination the executors or administrators of a deceased Member or the holder of a Succession Certificate in respect of the shares of a deceased Member (not being one of two or more joint holders) shall be the only persons whom the Company will be bound to recognize as having any title to the shares registered in the name of such Member and the Company shall not be bound to recognize such executors or administrators or holders unless such executors administrators or holders shall have first obtained probate or Letters of Administration or Succession Certificate as the case may be from a duly constituted Court in India. PROVIDED that the Directors may at their absolute discretion dispense with production of Probate Letters of Administration or Succession Certificate up on such terms as to indemnity or otherwise as they think fit and may enter the name of the person who claims to be absolutely entitled to the shares standing in the name of a deceased Member as a Member.
			Transmission of shares
☐	☑	23	• 43. Transmission of Shares Subject to the provisions of the Act any person becoming entitled to any share inconsequence of the death lunacy or insolvency of any Member or by any lawful means other than by a transfer in accordance with these Articles may with the consent of the Directors (which they shall be under no obligation to give) and upon producing such evidence that he sustains the character in respect of which he proposes to act under this. Article or of his title as the Directors may require and upon such indemnity as the Directors may require either be registered as a Member in respect of such shares or elect to have some person nominated by him and approved by the Directors registered as a Member in respect of such shares. PROVIDED that if such persons shall elect to have his nominee registered he shall testify his election by executing in favor of his nominee an instrument of transfer in accordance with these Articles and until he does so he shall not be freed from any liability in respect of such shares.
☐	☑	24	• 44. Right of Board to decline or suspend registration (i) Any person becoming entitled to a share in consequence of the death or insolvency of a member may upon such evidence being produced as may from time to time properly be required by the Board and subject as hereinafter provided elect either -(a) to be registered himself as holder of the share or (b) to make such transfer of the share as the deceased or insolvent member could have made. (ii) The Board shall in either case have the same right to decline or suspend registration as it would have had if the deceased or

			insolvent member had transferred the share before his death or insolvency.
☐	☑	25	• 45. The Company not liable for disregard of notice prohibiting registration of transfer The Company shall incur no liability or responsibility whatever in consequence of its registering or giving effect to any transfer of shares made or purported to be made by any apparent legal owner thereof (as shown or appearing in register of Members) to the prejudice of persons having or claiming any equitable right title or interest to or in the same shares notwithstanding that the Company may have had notice of such equitable right title or interest or notice prohibiting registration of such transfer and may have entered such notice or referred to it in any book or attended or given effect to any notice which may have been given to it of any equitable right title or interest or be under any liability whatsoever for refusing or neglecting so to do though it may have been entered or referred to in some book of the Company but the Company shall nevertheless be at liberty to regard and attend to any such notice and give effect thereto if the Directors shall so think fit.
☐	☑	26	• 46. Rights of successors A person becoming entitled to a share by reason of the death or insolvency of the holder shall be entitled to the same dividends and other advantages to which he would have been entitled if he were the registered holder of the shares except that he shall not before being registered as a Member in respect of the shares been titled to exercise any right conferred by membership in relation to meetings of the Company. PROVIDED that the Directors shall at any time give notice requiring any such person to elect to be registered himself or to transfer the shares and if the notice is not complied within ninety days from the date of issue of the notice the Directors may thereafter withhold payment of all dividends bonuses or other moneys payable in respect of the shares until the requirements of the notice have been complied with.
☐	☑	27	• .
			Forfeiture of shares
☐	☑	28	• 47. If money payable on shares not paid notice to begiven to members If any Member fails to pay any call or installment of a call on or before the day appointed for the payment of the same or any such extension thereof as aforesaid the Board may at any time thereafter during such time as any part of the call or installment remains unpaid serve a notice on him requiring him to pay the same together with any interest which may have accrued and all expenses that may have been incurred by the Company by reason of such non-payment.
☐	☑	29	• 48. Contents of Notice The notice shall name a further day (not being less than fourteen days from the date of the service of notice) and a place or places on and at which such call or installment and such interest thereon at such rate as the Directors shall determine from the day on which such call or installment ought to have been paid and expenses as aforesaid are to be paid. The notice shall also state that in the event of the non-payment on or before the day at or before the time and at

		the place appointed the shares in respect of which the call was made or installment is payable shall be liable to be forfeited.
☐ ☑	30	• 49. In default of payment shares to be Forfeited If the requirement of any such notice as aforesaid are not complied with every or any share in respect of which such notice has been given may at any time thereafter but before payment of all calls or installments interest and expenses due in respect thereof be forfeited by a resolution of the Board to that effect. Such forfeiture shall include all dividends declared or any other moneys payable in respect of the aforesaid share and not actually paid before the forfeiture. In default of payment shares to be Forfeited.
☐ ☑	31	• 50. Notice of forfeiture to a Member When any share shall have been so forfeited notice of the forfeiture shall be given to the Member in whose name it stood immediately prior to the forfeiture and an entry of the forfeiture with the date thereof shall forthwith be made in the Register of Members but no forfeiture shall be in any manner invalid by any omission or neglect to make any such entry as aforesaid in the Register.
☐ ☑	32	• 51. Forfeited share to be property of the Company and may be sold etc. Any share so forfeited shall be deemed to be the property of the Company and maybe sold re-allotted or otherwise disposed of either to the original holder thereof or to any person upon such terms and in such manner as the Board shall think fit.
☐ ☑	33	• 52. Member still liable to pay calls owing at the time of forfeiture and interest Any members whose shares have been forfeited shall notwithstanding the forfeiture be liable to pay and shall forthwith pay to the Company on demand all calls installment interest and expenses owing upon or in respect of such shares at the time of the forfeiture together with interest accrued thereon at the time of the forfeiture at such rate as the Board may determine and the Board may enforce the payment thereof if it thinks fit.
☐ ☑		• 53. Effect of forfeiture The forfeiture of a share shall involve extinction at the time of the forfeiture of all interest in and all claims and demands against the Company in respect of the share and all other rights incidental to the share except only such of those rights as by these Articles are expressly saved. 54. Evidence of forfeiture A declaration inwriting by Chairman or Managing Director of the Company or by any person duly authorised in this regard that certain shares in the Company have been duly forfeited on a date stated in the declaration shall be conclusive evidence of the facts therein stated as against all persons claiming to be entitled to the shares and such declaration and the receipt of the Company for the consideration if any given for the shares on the sale or disposition there of shall constitute a good title to such shares and the person to whom the shares are sold shall be registered as the holder of such shares and shall not be bound to see as to the application of the purchase money nor shall his title to such shares be affected by any irregularity or invalidity in the proceedings in reference to such forfeiture sale or disposition. 55. Validity of sale under Articles of forfeited

		34	shares Upon any sale after forfeiture or for enforcing alien in purported exercise of the powers herein before given the board may appoint some person to execute an instrument of transfer of the shares sold and cause the purchasers name to be entered in the Register of Members in respect of the shares sold and the purchaser shall not be bound to see the regularity of the proceedings or to the application of the purchase money and after his name has been entered in the Register in respect of such shares the validity of the sale shall not be impeached by any person and the remedy of any person aggrieved by the sales hall be in damages only and against the Company exclusively. 56. Cancellation of Share Certificates in respect of forfeited shares Upon any sale re-allotment or other disposal under the provisions of the preceding Articles the certificate or certificates originally issued in respect of the relative shares shall (unless the same shall on demand by the Company have been (previously) surrendered to it by the defaulting member) stand cancelled and become null and void and of no effect and the Directors shall been titled to issue a duplicate certificate or certificates in respect of the said shares to the person or persons entitled thereto. 57. Power to annul forfeiture The Board may at any time before any share so forfeited shall have been sold re-allotted or otherwise disposed of annul the forfeiture there of upon such terms and conditions as it thinks fit.
			Alteration of capital
☐	☑	35	• 58. Alteration of Share Capital The company may from time to time by ordinary resolution increase the share capital by such sum to be divided into shares of such amount as may be specified in the resolution. Subject to the provisions of section 61 the company may by ordinary resolution the Company may from time to time-- (a) consolidate and divide all or any of its share capital into shares of larger amount than its existing shares (b) convert all or any of its fully paid-up shares into stock and reconvert that stock in to fully paid-up shares of any denomination (c) Sub-divide its shares or any of them into shares of smaller amount than is fixed by the memorandum so how ever that in the sub-division the proportion between the amount paid and the amount if any unpaid on each reduced share shall be the same as it was in the case of the share from which the reduced share is derived. (d) Cancel any shares which as the date of the passing of the resolution have not been taken or agreed to be taken by any person and diminish the amount of its share capital by the amount of the shares so cancelled. The resolution whereby any share is sub-divided may determine that as between the holders of the shares resulting from such sub-division one or more of such shares shall have some preference or special advantage as regards dividend capital voting or otherwise over or as compared with the others or other subject to the provisions of the Act. Subject to the provisions of Sections 66 of the Act the Board may accept from any member the surrender on such terms and conditions as shall be agreed of all or any of his shares. The company may by special resolution reduce in any manner and with and subject to any incident authorised and consent required by law -- (a) its share

			capital (b) any capital redemption reserve account or (c) any share premium account.
☐	☑	36	• .
☐	☑	37	• .
☐	☑	38	• .
			Capitalisation of profits
☐	☑	39	• 59. Capitalization of Profits (1) Any General Meeting of the Company may resolve that any amounts standing to the credit of the Free Reserve or Share Premium Account or the Capital Redemption Reserve Account or any moneys investment or other assets forming part of the undivided profits including profits or surplus moneys arising from the realization and (when permitted by the law) from the appreciation in value of any capital assets of the Company standing to the credit of the General Reserve or any other Reserve or Reserve Fund or any other Fund of the Company or in the hands of the Company and available for dividend be capitalized- (a) by the issue and distribution of shares as fully paid-up and to the extent permitted by the Act debentures debenture stock bonds or other obligations of the Company or (b) by crediting share of the Company which may have been issued and are not fully paid-up with the whole or any part of the sum remaining unpaid thereon PROVIDED that any amounts standing to the credit of the Share Premium Account or the Capital Redemption Reserve Account shall be applied only in crediting the payment of capital on shares to be issued to Members as fully paid bonus shares (Further capitalization of reserve created by the revaluation of assets are not to be used for issuance of Bonus Shares as per section 63 of the Act). (2) Such issue and distribution under sub-clause (1) (a) of this Article and payment to the credit of unpaid share capital under sub-clause (1) (b) of this Article shall be made among and in favour of the Members or any class of them or any of them entitled thereto and in accordance with their respective rights and interests and in proportion to the amount of capital paid-up on the shares held by them respectively in respect of which such distribution or payment shall be made on the footing that such Members become entitled thereto as capital. (3) The Directors shall give effect to any such resolution and for the said purpose the Board may settle any difficulty which may arise in regard to distribution as it thinks expedient including in regard to fractional entitlements and shall apply such profits General Reserve other Reserve or any other Fund or account as aforesaid as may be required for the purpose of making payment in full on the shares or other obligations of the Company so distributed under sub clause (1) (a) of this Article or (as the case may be)for the purpose of paying in whole or in part the amount remaining unpaid on the shares which may have been issued and are not fully paid-up under sub-clause (1)(b) above. PROVIDED that no such distribution or payment shall be made unless recommended by the Directors and if so recommended such distribution and payment shall be accepted by such Members as aforesaid in full satisfaction of their interest in the said capitalized fund. (4) For the purpose of giving effect to any such resolution the Directors may settle any

			difficulty which may arise in regard to the distribution or payment as aforesaid as they think expedient and in particular they may issue fractional certificates and may fix the value for distribution of any specific asset and may determine that any cash payment be made to any Members on the footing of the value so fixed and may vest any such cash shares debentures stock bonds or other obligations in trustees upon such trusts for the persons entitled thereto as may seem expedient to the directors and generally may make arrangement for the acceptance allotment and sale of such shares debentures debentures stock bonds or other obligations and fractional certificates or otherwise as they may think fit. (5) When deemed requisite a proper contract shall be filed in accordance with the Act and the Board may appoint any person to sign such contract on behalf of the Members entitled as aforesaid. Subject to the provisions of the Act and these Articles in cases where some of the shares of the Company are fully paid and others are partly paid such capitalization may be effected by the distribution of further shares in respect of the fully paid shares and by crediting the partly paid shares with the whole or part of the unpaid liability thereon but so that as between the holders of the fully paid shares and the partly paid shares the sums so applied in the payment of such further shares and in the extinguishment or diminution of the liability on the partly paid shares shall be applied pro rata in proportion to the amount then already paid or credited as paid on the existing fully paid and partly paid shares respectively.
☐	☑	40	• .
			Buy-back of shares
☐	☑	41	• 60. Buy Back of Shares Notwithstanding any thing contained in these articles but subject to the provisions of sections 68 to 70 and any other applicable provision of the Act or any other law for the time being in force the company may purchase its own shares or other specified securities.
			General meetings
☐	☑	42	• 61. Annual General Meeting The Company shall in each year hold a General Meeting as its Annual General Meeting in addition to any other meeting in that year. All General Meetings other than Annual General Meetings shall be called Extraordinary General Meetings. If for any reason beyond the control of the Board the general meeting (including an Annual General meeting) cannot be held on the appointed day the Board shall have power to postpone the General meeting of which a notice should be given to the members. Every member of the Company shall be entitled to attend either in person or by proxy and the Auditor of the Company shall have the right to attend and to be heard at any General Meeting which he attends on any part of the business which concerns him as Auditor.
☐	☑		• 62. Extraordinary General Meeting The Board may whenever it thinks fit call an Extraordinary General Meeting of the Company. The Board shall at the requisition in writing by a Member or Members holding in the aggregate not less than one-tenth of such of the paid-up capital of the company on that date and carries

		43	the right of voting in regard to the matter in respect of which the requisition has been made. 63. Requisition of Members to state object of Meeting Any valid requisition so made by Members must state the object or objects of the meeting proposed to be called and must be signed by the requisitionists and deposited at the registered office of the company. PROVIDED that such requisition may consist of several documents in like form each signed by one or more requisitionists. 64. On receipt of requisition Directors to call meeting and in default requisitionists may do so Upon the receipt of any such requisition the Board shall forthwith call an Extraordinary General Meeting and if they do not proceed within twenty-one days from the date of the requisition being deposited at the Registered Office to cause a meeting to be called on a day not later than forty-five days from the date of deposit of the requisition the requisitionists or such of their number as represent either a majority in value of the paid-up share capital held by all of them or one-tenth of such of the paid-up share capital of the Company as is referred to in Section 100(2) of the Act whichever is less may themselves call the meeting but in either case any meeting so called shall beheld within three months from the date of the deposit of the requisition as aforesaid. 65. Meeting called by requisitionists Any meeting called under the foregoing Articles by the requisitionists shall be called in the same manner as nearly as possible as that in which meetings are to be called by the Board. 66. Twenty-one days notice of meeting to be given A general meeting of a Company may be called by giving not less than clear twenty-one days notice either in writing or through electronic mode in such a manner as may be prescribed Every notice of a meeting shall specify the place date day and the hour of meeting and shall contain statement of the business to be transacted at such meeting. And The notice of every meeting shall be given to every member of the Company Legal Representative of any deceased member or the assignee of an insolvent member auditor or auditors of the Company and every director of the Company and all such persons as are under these Articles entitled to receive notice from the Company Provided that a general meeting may be called after giving shorter notice than that specified in this sub-section if consent in writing or by electronic mode is accorded thereto (i) in the case of an annual general meeting by not less than ninty-five per cent. of the members entitled to vote thereat and (ii) in the case of any other general meeting by members of the company(a) holding if the company has a share capital majority in number of members entitled to vote and who represent not less than ninety-five per cent. of such part of the paid-up share capital of the company as gives a right to vote at the meeting or (b) having if the company has no share capital not less than ninty-five per cent. of the total voting power exercisable at that meeting Provided further that where any member of a company is entitled to vote only on some resolution or resolutions to be moved at a meeting and not on the others those members shall be taken into account for the purposes of this sub-section in respect of the former resolution or resolutions and not in respect of the latter.
			Proceedings at general meetings

☐	☑	44	• 67. Business to be transacted at the General Meeting and nature there of In the case of an Annual General Meeting all business to be transacted there at shall be deemed special other than (i) the consideration of the financial statements and there ports of the Board of Directors and Auditors (ii) the declaration of any dividend (iii) the appointment of Directors in place of those retiring (iv)the appointment of and the fixing of the remuneration of the Auditors and in the case of any other meeting all business shall be deemed to be Special Business and there shall be annexed to the notice of the Meeting an Explanatory statement setting out all material facts concerning each such item of special business including in particular the nature of the concern or interest financial or otherwise if any therein of (i) every Director and the Manager (if any) (ii) every other key managerial personnel and relatives of the persons mentioned in sub clauses (i) and (ii). Where any such item of Special Business relates to or affects any other company the extent of shareholding interest in such other company of every promoter director and the manager if any and of every other key managerial personnel of the Company shall also beset out in the statement if the extent of such shareholding interest is not less than two per cent of the paid-up share capital of that other company and where any item of business consists of the according of approval to any documents by the meeting the time and place where the document can be inspected shall be specified in the statement aforesaid. The annual general meeting shall be called during business hours on any day that is not a National Holiday and it is to be held either at the registered office of the company or at some other place within the city in which the registered office of the company is situate.
☐	☑	45	• 68. Omission to give notice not to invalidate a resolution passed The accidental omission to give any such notice as aforesaid to any of the Members or the non-receipt thereof shall not invalidate any resolution passed at any such meeting.
☐	☑	46	• 69. Meeting not to transact business not mentioned in notice No General Meeting Annual or Extraordinary shall be competent to enter upon discuss or transact any business which has not been mentioned in the notice or notices upon which it was convened.
☐	☑		• 70. Body Corporate deemed to be personally present A body corporate being a Member shall be deemed to be personally present if it is represented in accordance with Section 113 of the Act. 71. Quorum at General Meeting No business shall be transacted at any general meeting unless a quorum of members is present at the time when the meeting proceeds to business. Save as otherwise provided herein the quorum for the general meetings shall be as provided in section 103 of the Companies Act 2013. 72.. If quorum not present meeting to be dissolved or adjourned If at the expiration of half an hour from the time appointed forholding a general meeting of the Company a quorum is not present the meeting if convened by or upon the requisition of Members shall stand dissolved but in any other case the meeting shall stand adjourned to the same day in the next week or if that day is a public holiday until the next succeeding day which is not a public holiday at the same time and place

		47	or to such other day and at such other time place as the Board may determine and if at such adjourned meeting a quorum is not present at the expiration of half an hour from the time appointed for holding the meeting the Members present shall form the quorum and may transact the business for which the meeting was called. 73. Chairman of General Meeting The Chairman of the Board shall be entitled to take the Chair at every General Meeting whether Annual or Extraordinary. If at any meeting the Chairman is not present within fifteen minutes of the time appointed for holding such meeting or he has informed that he shall be unable or unwilling to take the Chair then any one of directors with mutual consent shall so preside at the meeting. If no Director be present or if all the Directors present decline to take the Chair then the Members present shall elect one of the members to be the Chairman of the Meeting. 74. No Business whilst chair vacant No business shall be discussed at any General Meeting except the election of a Chairman whilst the Chair is vacant. 75. Chairman with consent may adjourn meeting The Chairman with the consent of the Members may adjourn any meeting from time to time and from place to place within the city town or village in which the Registered Office of the Company is situated but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. Notwithstanding the provision as above in the event of disorder at a validly convened meeting the Chairman may adjourn the meeting provided that such an adjournment shall not be a longer period than the Chairman considers necessary to being order at the meeting and Chairman communicates his decision to those present in so far as it is possible. 76. Questions at General Meeting how Decided Every question submitted to a meeting shall be decided in the first instance unless a poll is demanded on a show of hands. Before or on the declaration of the result of the voting on any resolution on a show of hands a poll may be ordered to be taken by the Chairman of the meeting on his own motion and shall be ordered to betaken by him on a demand made in that behalf by any member or members present in person or by proxy and holding shares in the Company which confer a power to vote on the resolution not being less than one-tenth of the total voting power in respect of the Resolution or on which an aggregate sum of not less than five lakh rupees has been paid up. The demand for a poll may be withdrawn at anytime by the person or persons making the demand. Unless a poll is so demanded a declaration by the Chairman that are solution has on show of hands been carried through unanimously or by a particular majority or lost and an entry to that effect in the Minutes Book of the Company shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against the resolution. 77. Chairmans Casting Vote In the case of an equality of votes the Chairman shall have a casting vote in addition to the vote or votes to which he may be entitled otherwise. 78. Poll to be taken if demanded If a poll is demanded as aforesaid the same shall be taken at such time (not later than forty-eight hours from the time when the demand was made)and place in the city or town in which the Registered office of the Company is for the time being situated as the

			Chairman shall direct either at once or after an interval or adjournment and the result of the poll shall be deemed to be the resolution of the meeting. 79. In which case poll taken without Adjournment Any poll duly demanded on the election of the Chairman of a meeting or on any question of adjournment shall be taken at the meeting forthwith. 80. Demand for poll not to prevent transaction of other business The demand for a poll except on the questions of the election of the Chairman and of an adjournment shall not prevent the continuance of a meeting for the transaction of any business other than the question on which the poll has been demanded. 81. Minutes of General Meetings (a) The Company shall cause minutes of the proceedings of every General Meeting or every resolution passed by postal ballot to be kept by making within thirty days of the conclusion of every such meeting concerned record thereof kept with Minute Book for that purpose with their pages consecutively numbered. (b) Each page of every such book shall be initialed or signed and the last page of the record of proceedings of each meeting in such book shall be dated and signed by the Chairman of the same meeting within the aforesaid period of thirty days or in the event of the death or inability of that Chairman within that period by a Director duly authorised by the Board for the purpose. (c) In no case the minutes of proceedings of a meeting shall be attached to any such book as aforesaid by pasting or otherwise. (d) The minutes of each meeting shall contain a fair and correct summary of the proceedings thereat. (e) All decisions taken and appointments of officers made at any meeting aforesaid shall be included in the minutes of the meeting. (f) Nothing herein contained shall require or be deemed to require the inclusion in any such minutes of any matter which in the opinion of the Chairman of the meeting (a) is or could reasonably be regarded as defamatory of any person or (b) is irrelevant or immaterial to the proceedings or (c) is detrimental to the interests of the Company. The Chairman of the meeting shall exercise an absolute discretion in regard to the inclusion or non-inclusion of any matter in the minutes on the aforesaid grounds. (g) Any such minutes shall be evidence of the proceedings recorded therein. Where the minutes have been kept in accordance with section then until the contrary is proved the meeting shall be deemed to have been duly called and held all appointments of directors key managerial personnel auditors or company secretary in practice shall be deemed to be valid. No document purporting to be a report of the proceedings of any general meeting of a company shall be circulated or advertised at the expense of the company unless it includes the matters required to be contained in the minutes of the proceedings of such meeting. The company shall observe secretarial standards with respect to general and Board meetings specified by the Institute of Company Secretaries of India constituted under section 3 of the Company Secretaries Act 1980 and approved as such by the Central Government. (h) The book containing the minutes of the proceedings of any general meeting of the Company or of a resolution passed by postal ballot shall be kept at the registered office of the Company and shall be open during business hours to the inspection by any member without any

			charge for such period not being less than two hours in each business day are allowed for inspection.
☐	☑	48	• .
			Adjournment of meeting
☐	☑	49	• 82. Adjournment of Meeting (i)The Chairperson may with the consent of any meeting at which a quorum is present and shall if so directed by the meeting adjourn the meeting from time to time and from place to place. (ii) No business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. (iii) When a meeting is adjourned for thirty days or more notice of the adjourned meeting shall be given as in the case of an original meeting. (iv) Save as aforesaid and as provided in section 103 of the Act it shall not be necessary to give any notice of an adjournment or of the business to be transacted at an adjourned meeting.
			Voting rights
☐	☑	50	• 83. Members in arrears not to vote No member shall been titled to vote either personally or by proxy at any General Meeting or Meeting of a class of shareholders either upon a show of hands or upon a poll in respect of any shares registered in his name on which any calls or other sums presently payable by him have not been paid or in regard to which the Company has exercised any right of lien.
☐	☑	51	• 84. Number of votes to which Member Entitled Subject to the provisions of these Articles and without prejudice to any special privileges or restrictions as to voting for the time being attached to any class of shares for the time being forming part of the capital of the Company every Member shall be entitled to be present and to speak and vote at such meeting by show of hand for which the Member present in person shall have one vote. On a poll taken at a meeting of a company a member entitled to more than one vote or his proxy need not to use all his votes or cast in the same way all the votes he uses.
☐	☑	52	• 85. Votes by a Member entitled to more than one vote On a poll taken at a meeting of the Company a Member entitled to more than one vote by virtue of his share-holding or his proxy or other person entitled to vote for him as the case may be need not if he votes use all his votes or cast in the same way all the votes he uses and he may vote in different manner as he deems fit.
☐	☑	53	• 86. Vote of Member who is a minor If any shareholder be a minor the vote in respect of his share or shares shall be by his guardian or any one of his guardians if more than one to be selected in case of dispute by the Chairman of the meeting.
☐	☑	54	• 87. Votes of Joint Members If there be joint registered holders of any shares the vote of the senior who tenders a vote whether in person or by proxy shall be accepted to the exclusion of the votes of the other joint holders. For this purpose seniority shall be determined by the order in which the namesst and in the register of members.

☐	☑	55	• 88. Voting in person or by proxy or Representative Subject to the provisions of these Articles votes may be given either personally or by proxy. A body corporate being a Member may vote either by proxy or by a representative duly authorised in accordance with Section 113 of the Act and such representative shall be entitled to exercise the same rights and powers (including the right to vote by proxy) and by postal ballot on behalf of the body corporate which he represents as that body could exercise if it were an individual Member of the Company.
☐	☑	56	• 89. Votes in respect of shares of Deceased Any person entitled under the Transmission Clause to transfer any shares may vote at any General Meeting in respect thereof in the same manner as if he were the registered holder of such shares. PROVIDED that forty-eight hours at least before the time of holding the meeting or adjourned meeting as the case may beat which he proposes to vote he shall satisfy the Chairman of his right to transfer such shares and give such indemnity (if any) as the Chairman may require or the Chairman shall have previously admitted his right to vote at such meeting in respect thereof. 90. Time for objection to vote No objection shall be made to the validity of any vote except at the meeting or poll at which such vote was tendered and every vote whether given personally or by proxy not disallowed at such meeting or poll shall be deemed valid for purposes of such meeting or poll whatsoever. 91. Chairman of the meeting to be the judge of the validity of any Vote The Chairman of any meeting shall be the sole judge of the validity of every vote tendered at such meeting. The Chairman present at the taking of a poll shall be the sole judge of the validity of every vote tendered at such poll.
			Proxy
☐	☑	57	• 92. Appointment of proxy A person can act as proxy on behalf of members not exceeding fifty and holding in the aggregate not more than ten percent of the total share capital of the company carrying voting rights Provided that a member holding more than ten percent of the total share capital of the Company carrying voting rights may appoint a single person as proxy and such person shall not act as proxy for any other person or shareholder. Every proxy shall be appointed in writing under the hand of the Member or if such Member is a body corporate under the common seal of such corporation or be signed by an appointer or his attorney duly authorised in writing. The proxy so appointed shall not have any right to speak at the meetings.
☐	☑	58	• 93. Deposit of instrument of Proxy etc. The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarized copy of that power or authority shall be deposited at the Registered Office of the Company not later than forty-eight hours before the time for holding the meeting at which the person named in the instrument proposes to vote and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of twelve months from the date of its execution.

☐	☑	59	• 94. Form of proxy An instrument appointing a proxy shall be in the form No. MGT-11 as prescribed in the rules made under section105 of the Companies Act 2013. 95. Proxy either for specified meeting or for a period An instrument of proxy may appoint a proxy either for the purpose of a particular meeting specified in the instrument and any adjournment thereof or it may appoint for the purpose of every meeting of the Company or of every meeting to be held before a date specified in the instrument and every adjournment of any such meeting. 96. Validity of votes given by proxy not with standing death of Member A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or there vocation of the proxy or of the authority under which the proxy was executed or the transfer of the shares in respect of which the proxy is given. Provided that no intimation in writing of such death in sanity revocation or transfer shall have been received by the company at its office before the commencement of the meeting or adjourned meeting at which the proxy is used.
			Board of Directors
☐	☑	60	• 97. Management of Affairs The day to day management of the business and affairs of the Company shall be vested with Project-in-charge under the supervision direction control of the Board. The Board may exercise all such powers of the Company and do all such acts deeds and things as are not prohibited by the Act or any other statute or by the Memorandum of Association of the Company and without prejudice to the foregoing shall be responsible for all policy matters and the supervision direction and control of the conduct of the business affairs operations of the Company.
☐	☑	61	• 98. First Directors Shri Neeraj Singh Shri Sachin Shukla and Shri Rishab Jain shall be the First Directors of the Company.
☐	☑		• 99. Number and appointment of Directors The Board of Directors of the Company shall consist of not less than 3 but not more than 15 Directors. A Director shall not be required to hold any qualification shares in the Company. Notwithstanding anything to the contrary contained in these Articles so long as any moneys remain owing by the Company to a Financial Institution or any other person by the Company or the Company has entered into any agreement or undertaking or arrangement (hereinafter refer as agreement)with Bodies (like State Electricity Board Nigam) or the Board of Directors have decided to seek nomination on the Board from the beneficiary state or any Financial Institution or PFC Consulting Limited or person holds Debentures in the Company by direct subscription or private placement the Company may agree to grant to such Financial Institution PFC Consulting Limited person or other Bodies as a condition of such loan or subscription to Debenture or any other agreement or to a Debenture Trustee the right to appoint from time to time any person or persons as Director or Directors of the Company (which director or directors is are hereinafter referred to as Nominee Directors) retiring or non-retiring subject to and on such terms and conditions as the Company may agree with

		62	such Financial Institutions PFC Consulting Limited Person other Bodies and or Debenture Trustee. The Company shall have a right to remove from office Nominee Director(s) at the option of the Company in consultation with Financial Institutions PFC Consulting Limited Bodies persons or Debenture Trustee. Such Nominee Director(s) shall not be required to hold any Share qualification in the Company. Also at the option of the Company such Nominee Director(s) shall not be liable to retirement by rotation of the Directors. Subject as aforesaid the Nominee Director(s) shall be entitled to the same rights and privileges and be subject to the same obligations as any other Director of the Company. The Nominee Director(s) so appointed shall hold the said office only so long as moneys remain owing by the Company to the Financial Institution or so long as the Debenture Trustee hold debenture in the Company or operation of agreement and the Nominee Directors so appointed in the exercise of the said person shall ipso facto vacate such office immediately the money owing by the Company to the Financial Institution or on the Debenture Trustee ceasing to hold Debentures Shares on the satisfaction of liability of the Company arising out of any Guarantee furnished by the Financial Institutions or satisfactory completion of term of agreement with Bodies. The Nominee Director(s) appointed under this article shall be entitled to receive all notice of and attend all General meeting Board Meeting and of the meetings of the Committee of which the Nominee Director(s) is are member(s) as also the minutes of meetings. The financial institutions Debenture Trustee persons bodies shall also be entitled to receive all such notice and minutes. The Company shall pay to the Nominee Director(s) sitting fees and expenses which other Director of the Company are entitled but if any other fees commission remuneration in any form is payable to the Director of the Company the fees commission money and remuneration in relation to such Nominee Director(s) shall accrued to Debenture Trustee and same shall accordingly be paid by the Company directly to the debenture trustee. Any expenses that may incurred by the financial institution or such Nominee Director(s) in connection with their appointment or Directorship shall also be paid or reimbursed by the Company to the financial Institution or as the case may be to such Nominee Director(s). Provided that if any such Nominee Director(s) is are an officer of the Financial Institution the sitting fees in relation to such Nominee Director(s) shall also accrue to the Financial Institute and the same shall accordingly be paid by the Company directly to that Financial Institution. Provided further that if such Nominee Director(s) is are an official of any of the Reserve Bank of India the sitting fees in relation to such Nominee Director(s) shall also accrue to Financial Institution to whom he represents as Nominee Director from Reserve Bank of India and the same shall accordingly be paid by the Company directly to that Financial Institution. Provided also that in the event of the Nominee Director(s) being appointed as Whole Time Director(s) such Nominee Director(s) shall exercise such powers and duties as may be approved by the Lenders or Bodies in consultation with Board and have such rights as are usually exercised or available to a Whole Time Director in management of the Borrower or Bodies and

			such Nominee Director(s) shall be entitled to receive such remuneration fees commission and moneys as may be approved by the Lenders or Bodies in consultation with Board.
☐	☑	63	• 100. Company may increase the number of Directors Subject to Section 149 of the Act the Company may subject to special resolution in General Meeting increase the maximum number of Directors. Further the Company may subject to the provisions of Section 169 of the Act bypassing the ordinary resolution in the General Meeting of the members may remove any Director before the expiration of his period of office and appoint another person in the place of director so removed.
☐	☑	64	• 101. Appointment of Alternate Directors In accordance with Section 161 and other applicable provisions (if any) of the Act the Board shall have power at any time and from time to time to appoint a person not being a person holding any alternate directorship for any other Director in the Company to act as an alternate director for a director(hereinafter called the original Director) during his absence for a period of not less than three months from India.
☐	☑	65	• 102. Directors power to fill up casual Vacancies Casual vacancies among Directors may be filled by the Board of Directors at their meeting and any person so appointed shall hold the office as per the provision of section 161.
☐	☑		• 103. Appointment of Additional Director Subject to the provisions of Section 161 and other applicable provisions (if any) of the Act the Board shall have power at any time and from time to time to appoint a person as an Additional Director but so that the total number of Directors shall not at any time exceed the maximum number fixed by these Articles. The Additional Director so appointed shall retire from Office at next following Annual General Meeting but shall be eligible for election by the company at that meeting as a Director. 104. Directors may act notwithstanding any vacancy The continuing Directors may act notwithstanding any vacancy in their body but if and so long as their number is reduced below the minimum number fixed by Article 100 thereof the continuing Directors may act for the purpose of increasing the number of Directors to that number or of summoning a General Meeting for that purpose. 105. Remuneration of Directors Subject to the provisions of the Act the Chairman or Managing Director or any other functional Directors who is are in the whole-time employment of the Company may be paid remuneration either by way of a monthly payment or at a specified percentage of the net profit of the Company or partly by one way and partly by the other keeping in view the limiting provisions governing the Managerial remuneration under the provisions of the Act. Subject to the provisions of the Act a Director who is neither in the whole-time employment nor a Chairman cum Managing Director of the Company may be paid remuneration either-(a) by way of monthly quarterly or annual payment with the approval of the Central Government or (b) by way of commission if the Company by a special resolution authorizes such payment and The sitting fee payable to a Director (excluding Whole-time Director) for attending a meeting of the Board or Committee thereof

		66	shall be such sum as maybe fixed by the Board provided that the same shall not exceed Rs. 100000- or such other sum as prescribed in the Act as amended from time to time. Travelling expenses incurred by Director going out on Companys Business. The Board may allow and pay to any Director who is not a bona-fide resident of the place where the Registered Office of the Company or where the meetings of the Board are actually held and who has to come to such place for the purpose of attending any meeting such sum as the Board may consider fair compensation for travelling boarding lodging and other actual incidental expenses in addition to his fee for attending such meeting as specified above. If any Director be called upon to go or reside out of the bona fide place of his residence on the Companys business he shall be entitled to be paid and reimbursed any travelling or other actual expenses incurred by him in connection with the business of the Company. 106. When office of Directors to become Vacant Subject to Section 167 of the Act the office of a Director shall become vacant if-(a) he incurs any of the disqualifications specified in section 164 under the act (b) he absents him self from all the meetings of the Board of Directors held during a period of twelve months with or without seeking leave of absence of the Board (c) he acts in contravention of the provisions of entering into contracts or arrangements in which he is directly or indirectly interested (d) he fails to disclose his interest in any contract or arrangement in which he is directly or indirectly interested (e) he becomes disqualified by an order of a court or the Tribunal (f) he is convicted by a court of any offence whether involving moral turpitude or otherwise and sentenced in respect thereof to imprisonment for not less than six months Provided that the office shall be vacated by the director even if he has filed an appeal against the order of such court (g) he is removed in pursuance of the provisions of this Act (h) he having been appointed a director by virtue of his holding any office or other employment in the holding subsidiary or associate company ceases to hold such office or other employment in that company. 107. Directors may contract with Company Except with the consent of the Board of Directors given by a resolution at a meeting of the Board and subject to such conditions the company shall not enter into any contract or arrangement with a related party with respect to (a) sale purchase or supply of any goods or materials (b) selling or otherwise disposing of or buying property of any kind (c) leasing of property of any kind (d) availing or rendering of any services (e) appointment of any agent for purchase or sale of goods materials services or property (f) such related partys appointment to any office or place of profit in the company its subsidiary company or associate company (g) underwriting the subscription of any securities or derivatives thereof of the company. Every contract or arrangement entered as related party transaction shall be referred in the Boards report to the shareholders along with the justification for entering into such contract or arrangement. 108. Disclosure of interest by Directors 1) Every Director of the Company who is in any way whether directly or indirectly concerned or interested in a contract or arrangement or proposed by Directors interested in a contract or arrangement or proposed contract or arrangement entered into or to be

			entered into by or on behalf of the Company shall disclose the nature of his concern or interest at every financial year or whenever there is change in the disclosure of interest. (2) Nothing in sub-clause (1) of this Article shall apply to any contract or arrangement entered into or to be entered into between the Company and any other company where any of the Directors of the Company or two or more of the Directors together holds or hold not more than two per cent of the paid-up share capital in the other company. 109. Interested Directors not to participate or vote in Boards proceedings An interested director who is in anyway whether by himself or through any of his relatives or firm body corporate or other association of individuals in which he or any of his relatives is a partner director or a member interested in a contract or arrangement or proposed contract or arrangement entered into or to be entered into by or on behalf of a company shall take any part in the discussion of or vote on any contract or arrangement entered into or to be entered into by or on behalf of the Company if he is in any way whether directly or indirectly concerned or interested in such contract or arrangement nor shall his presence count for the purpose of forming a quorum at the time of any such discussion or vote and if he does vote his vote shall be void. A contract or arrangement entered into by the company without disclosure or with participation by a director who is concerned or interested in any way directly or indirectly in the contract or arrangement shall be voidable at the option of the company. 110. Register of Contracts in which Directors are interested The company shall keep registers in accordance with Section 189(1) giving separately the particulars of all contracts or arrangements to which to matter of disclosure of interest by directors and related party transaction applies in such manner and containing such particulars as may be prescribed and after entering the particulars such registers shall be placed before the next meeting of the Board and signed by all the directors present at the meeting and shall with in thirty days of appointment make such disclosure as are necessary for the purpose of same. The Register shall be kept at the Registered office of the Company and shall be open to inspection at such office shall be open for inspection at such office during business hours and extracts may be taken there from and copies thereof as may be required by any member of the company shall be furnished by the company to such extent in such manner and on payment of same fee as in the case of the Register of Members of the Company. 111. Director may be Director of companies promoted by the Company A Director may become a Director of any other company promoted by the Company or in which it may be interested as a vendor shareholder or otherwise and no such Director shall be accountable for any benefits received as Director or shareholder of such a company except in so far as Section 188 of the Act may be applicable. 112. Register of Directors and key managerial personnel and their Shareholding The Company shall keep at its registered office a Register containing such particulars of its Directors and key managerial personnel Manager as may be prescribed under Section 170 of the Act and shall comply with the provisions of the said Section in all respects. The register shall include the details of securities held by each of them in the company or its

			holding subsidiary subsidiary of companys holding company or associate companies.
			Proceedings of the Board
☐	☑	67	• 113. Meetings of Directors The Directors may meet together as a Board for the dispatch of business from time to time so that at least four such meetings shall be held in every year in such a manner that not more than one hundred and twenty days shall intervene between two consecutive meetings of the Board. The Directors may adjourn and regulate their meetings as they think fit.
☐	☑	68	• 114. Board may appoint Chairman All meetings of the Directors shall be presided over by the Chairman if present but if at any meeting of the Directors the Chairman is not present at the time appointed forholding the same then in that case the Directors shall choose one of the Directors present to preside over the meeting.
☐	☑	69	• 115. Certain persons not to be appointed Chairman Managing Directors Functional Director The Company shall not appoint a personas its Chairman Managing Director or Whole-time Director who-(a) is an undischarged insolvent or had at any time been adjudged an insolvent (b) is or has at any time been convicted by a Court of an offence involving moral turpitude.
☐	☑	70	• 116. Notice of Directors Meeting A meeting of the Board shall be called by giving not less than seven days notice in writing to every director at his address registered with the company and such notice shall be sent by hand delivery or by post or by electronic means. Board may be called at shorter notice to transact urgent business where at least one independent director if any shall be present. Every notice convening a meeting of the Board of Directors shall set out the agenda of the business to be transacted there at insufficient detail provided however that the meeting may consider any other business with the permission of the chair.
☐	☑	71	• 117. When meeting to be convened The Company Secretary or any director of the Company may as and when directed by the Chairman to do so convene a meeting of the Board by giving a notice inwriting to every Director.
☐	☑	72	• 118. Quorum at Board Meeting No business shall be transacted at any Board meeting unless a quorum of Board of Director is present at the time when the meeting proceeds to business. Save as otherwise provided herein the quorum for the Board meetings shall be as provided in section 174.
☐	☑	73	• 119. Questions at Board meetings how to be decided All questions arising at a Meeting of the Board or any committee thereof shall be decided by majority of votes of directors present and in case of equality of votes the Chairperson shall have a second and casting vote.
☐	☑		• 120. Committee of Board Subject to the restrictions contained in Section 179 180 and other applicable provisions of the Act and preceding Articles the Board may delegate any of its powers to Committees of the Board consisting of such member or members of its body as it may think fit. PROVIDED that the Board may

			from time to time revoke modify and discharge any such Committee of the Board either wholly or in part. Every Committee of the Board so formed shall in the exercise of the powers so delegated conform to any Policy regulations that may from time to time be laid down by the Board. All acts done by any such Committee of the Board in conformity with such regulations and in fulfillment of the purposes of their appointment shall have the like force and effect as if done by the Board.
☐	☑		• 121. Meeting of Committee how to be Governed The meetings and proceedings of any such Committee of the Board consisting of two or more members shall be governed by the provisions of the act and guidelines laid down for regulating the meetings and proceedings of the Directors so far as the same are applicable thereto and are not superseded by any regulations made by Directors under the last preceding Article. 122. Resolution by circulation No resolution on matters shall be deemed to have been duly passed by the Board or by a Committee thereof by circulation unless the resolution has been circulated in draft together with the necessary papers if any to all the Directors or members of the Committee as the case may be at their addresses registered with the company in India by hand delivery or by post or by courier or through such electronic means as may be prescribed and has been approved by a majority of the directors or members who are entitled to vote on the resolution. Resolution passed in such circulation shall be made part of the minutes of such meeting. Provided that where not less than one-third of the total number of directors of the company for the time being require that any resolution under circulation must be decided at a meeting the chairperson shall put the resolution to be decided at a meeting of the Board. 123. Defects in appointment of Directors not to invalidate actions taken All acts done by any meeting of the Board or by a Committee of the Board or by any person acting as a Director shall notwithstanding that it was subsequently noticed that there was some defect in the appointment of such Director or persons acting as aforesaid or that they or any of them were disqualified or had vacated office or that the appointment of any of them had been terminated by virtue of any provisions contained in the Act or these Articles be as valid as if every such person had been duly appointed and was qualified to be a Director and had not vacated his office or his appointment had not been terminated. PROVIDED that nothing in this Article shall be deemed to give validity to acts done by a Director after his appointment had been noticed by the Company to be invalid or to have terminated. 124. Minutes of proceedings of meetings of the Board (a) The Company shall cause minutes of all proceedings of every meeting of the Board and committee thereof to be kept by making within thirty days of the conclusion of every such meeting record thereof in Minute Book kept for that purpose with their pages consecutively numbered. (b) Each page of every such book shall be initialed or signed and the last page of the record of proceedings of each meeting in such book shall be dated and signed by the Chairman of the said meeting or the Chairman of the next succeeding meeting. The minute books of the Board and committee meetings shall be preserved permanently and kept in the custody of the company secretary of the company or any

			director duly authorized by the Board for the purpose and shall be kept in the registered office or such place as Board may decide. The minutes shall also contain- (i) the names of the Directors present at the meeting And (ii) in the case of each resolution passed at the meeting the names of the Directors if any dissenting from or not concurring with the resolution. Nothing deemed to require the inclusion in any such minutes of any matter which in the opinion of the Chairman of the meeting (i) is or could reasonably be regarded as defamatory of any person. (ii) is irrelevant or immaterial to the proceedings or (iii) is detrimental to the interests of the Company. The Chairman shall exercise an absolute discretion in regard to the inclusion or non-inclusion of any matter in the minutes on the grounds specified in this sub-clause. (c) Minutes of meetings kept in accordance with the aforesaid provisions shall be evidence of the proceedings recorded therein. 125. Powers of Board The Board may exercise all such powers of the Company and do all such acts and things as it is entitled to do undersection 179 of the Act and rules made thereunder or by the Memorandum or Articles of the Company but shall not decide matters required to be exercised or done by the Company in General Meeting Subject to these Articles no regulation made by the Company in General Meeting shall invalidate any prior act of the Board which would have been valid if that regulation had not been so made. Certain powers of the Board Without prejudice to the general powers conferred by the Act and preceding Article and so as not in any way to limit or restrict those powers and without prejudice to the other powers conferred by these Articles and by General Body it is hereby declared that the Directors shall have the following powers that is to say power-(1) to pay and charge to the capital account of the Company any commission or interest lawfully payable there out under the provisions of Sections 40 of the Act (2) Subject to Sections 179 and 180 of the Act to purchase or otherwise acquire for the Company any property rights or privileges which the Company is authorised to acquire at or for such price or consideration and generally on such terms and conditions as they may think fit and in any such purchase or other acquisition to accept such title as the Directors may believe or may be advised to be reasonably satisfactory (3) At their discretion and subject to the provisions of the Act to pay for any property rights or privileges acquired by or services rendered to the Company either wholly or partially in cash or in shares bonds debentures mortgages or other securities of the Company and any such shares maybe issued either as fully paid-up or with such amount credited as paid-up thereon as may be agreed upon and any such bonds debentures mortgages or other securities may be either specially charged upon all or any part of the property of the Company and its uncalled capital or not so charged (4) To secure the fulfillment of any contract or engagement entered into by the Company in the normal course of business by mortgage or charge any of the property of the Company and its uncalled capital for the time being or in such manner as they may think fit (5) To accept from any Member as far as may be permissible by law a surrender of his shares or any part thereof on such terms and conditions as shall be agreed upon (6) To appoint any person to accept and hold in trust for the

		75	Company any property belonging to the Company in which it is interested or for any other purposes and to execute and do all such deeds and things as maybe required in relation to any such trust and to provide for the remuneration of such trust or trustees (7) To institute conduct defend compound or abandon any legal proceedings by or against the Company or its officers or other wise concerning the affairs of the Company and also to compound and allow time for payment or satisfaction of any debts due and of any claim or demand by or against the Company and to refer any differences to arbitration and observe and execute any awards made thereon (8) To act on behalf of the Company in all matters relating to bankruptcy and insolvency (9) To make and give receipts releases and other discharges for moneys payable to the Company and for the claims and demands of the Company (10) Subject to applicable provisions of the Act to invest and deal with any moneys of the Company not immediately required for the purposes thereof upon such security (not being shares of this Company) or without security and in such manner as they may think fit and from time to time to vary or realise such investments. Save as provided in Section 187 of the Act all investments shall be made and held in the Companys own name (11) To execute in the name and on behalf of the Company in favour of any Director or other person who may incur or going to incur any personal liability whether as principal or surety for the benefit of the Company such mortgages of the Companys property (present and future)as they think fit and any such mortgage may contain a power of sale and such other powers provisions covenants as shall be agreed upon (12) To open account with any bank or banks and to determine from time to time who shall been titled to sign on the Companys behalf bills notes receipts acceptances endorsements cheques dividend warrants releases contracts and documents and to issue the necessary authority for such purpose (13) To distribute by way of bonus or commission amongst the staff of the Company on the profits of any particular business or transaction and to charge such bonus or commission as part of the working expense of the Company (14) To provide for the welfare of employees or ex-employees of the Company and their families or connections of such persons by building or contributing to the building of houses dwellings or chawls or by grants of money pension gratuities allowances bonus or other payments or by creating and from time to time subscribing or contributing to provident and other funds associations institutions or trusts and by providing or subscribing or contributing towards places of instrument and recreation hospitals and dispensaries medical and other attendance and other assistance as the Board shall think fit and to subscribe or contribute or otherwise to assist or to guarantee money to charitable benevolent religious scientific national or other institutions or objects which shall have any moral or other claim to support or aid by the Company either by reason of locality of operation or of public and general utility or otherwise (15) Before recommending any dividend to set aside out of the profits of the Company such sums as they may think proper for depreciation or to a Depreciation Fund or to an Insurance Fund or as a Reserve Fund or Sinking Fund or any Special Fund to meet contingencies or to repay

			debentures or debenture stock or for special dividends or for equalizing dividends or for repairing improving extending and maintaining any of the property of the Company and for such other purposes (including the purposes referred to in the preceding clause) as the Board may in their absolute discretion think conducive to the interest of the Company and subject to Section 179 of the Act to invest the several sums so set aside or so much thereof as required to be invested upon such investments (other than shares of the Company) as they may think fit and from time to time to deal with and vary such investments and dispose of and apply and expend all or any part thereof for the benefit of the Company in such manner and for such purposes as the Board in their absolute discretion think conducive to the interest of the Company notwithstanding that the matters to which the Board apply or upon which they expend the same or any part there of may be matters to or upon which the capital moneys of the Company might rightly be applied or expended and to divide the Reserve Fund or division or a reserve Fund to another Reserve Fund or division of a Reserve Fund and with full power to employ the assets constituting all or any of the above funds including the Depreciation Fund in the business of the Company or in the purchase or repayment of Debentures or debenture stock and without being bound to keep the same separate from the other assets and without being bound to pay interest on the same with power however to the Board at their discretion to pay or allow to the credit of such funds interest at such rate as the Board may think proper (16) To appoint and at their discretion remove or suspend such officers such as Executive Director general managers managers secretaries assistants supervisors clerks agents and servants etc. for permanent temporary or special services as they may from time to time think fit and to determine their powers and duties and fix their salaries or emoluments or remunerations and to require security in such instances and to such amounts as they may think fit. And also from time to time to provide for the management and transaction of the affairs of the Company in any specified locality in India or abroad in such manner as they think fit and the provisions contained in the following sub-clauses shall be without prejudice to the general powers conferred by this sub clause (17) From time to time and at any time to establish any number of offices and establishment for properly managing the affairs of the Company in any specified locality in India or elsewhere and to appoint staff for such offices and to fix their remuneration (18) Subject to the provisions of the Act from time to time and at any time to delegate to any such local Board or any member or members thereof or any managers or agents so appointed or to any other person(s) any of the powers authorities and discretions for the time being vested in the Board and to authorise the members for the time being of any such local Board or any of them to fill up any vacancies therein and to act notwithstanding vacancies and any such appointment or delegation under the preceding and this sub-clause may be made on such terms and subject to such conditions as the Board may think fit and the Board may at any time remove any person so appointed and may annul or vary any such delegation (19) At anytime and from time to time by Power of Attorney under the Seal of the Company to

			appoint any person or persons to be the Attorney or Attorneys of the Company for such purposes and with such powers authorities and discretions (not exceeding those vested in or exercisable by the Board under these presents and excluding the power to make calls and excluding also those which are to be exercised by the Board in its Meetings)and for such period and subject to such conditions as the Board may from time to time think fit and any such appointment may (if the Board thinks fit) be made in favour of the members or any of the members of any local Board established as aforesaid or in favour of any company or the shareholders directors nominees or managers or any company or firm or otherwise in favour of any persons whether appointed by name or designation by the Board and any such Power of Attorney may contain such powers for the protection or convenience of such Attorney as the Board may think fit and Board may specifically bestow powers enabling any such delegate or attorneys to sub-delegate all or any of the powers authorities and discretions for the time being vested in them (20) Subject to Sections 188 of the Act for or in relation to any of the matters aforesaid or otherwise for the purposes of the Company to enter into such negotiations and contracts and rescind and vary such contracts and execute and do all such acts deeds and things in the name and on behalf of the Company as they may consider expedient (21) From time to time to make vary and repeal bye-laws for the regulations of the business of the Company regulate employment of its officers and servants by making service Rules and Regulations (22) Maintain proper records at places as per provisions of the Act and where the Company has a branch office whether in or outside India the Company shall be deemed to have complied with this Article if proper Books of Account relating to the transactions effected at the branch office are kept at the branch office and proper summarized returns made up-to-date at intervals of not more than three months are sent by the branch office to the Company at its Office or other place in India at which the Companys Books of Accounts are kept as aforesaid (23) Ensure proper maintenance of the Books of Account which shall give a true and fair view of the state of the affairs of the Company or branch office as the case may be and explain its transactions. The Books of Account and other books and papers shall be open to inspection by any Director during business hours.
☐	☑	76	• .
			Chief Executive Officer, Manager, Company Secretary or Chief Financial Officer
☐	☑	77	• 126. CEO MANAGER CS AND CFO Subject to the provisions of the Act -- (i) A chief executive officer manager company secretary or chief financial officer may be appointed by the Board for such term at such remuneration and upon such conditions as it may thinks fit and any chief executive officer manager company secretary or chief financial officer so appointed may be removed by means of a resolution of the Board (ii) A director may be appointed as chief executive officer manager company secretary or chief financial officer. Asper provisions of the Act or these regulations requiring or authorising a thing to be done by or to a director and chief executive officer manager company secretary or

			chief financial officer shall not be satisfied by its being done by or to the same person acting both as director and as or in place of chief executive officer manager company secretary or chief financial officer.
☐	☑	78	• .
			The Seal
☐	☑	79	• 127. The Seal its custody and use The Board shall provide a Common Seal for the purpose of the Company and shall have power from time to time to destroy the same and substitute a new Seal in lieu thereof and the Board shall provide for the safe custody of the Seal for the time being and the seal shall never be used except on the authority of the Board or by Committee of the Board as authorised. 128. Deeds how executed Every deed or other instrument to which the Seal of the Company is required to be affixed shall unless the same is executed by a duly constituted attorney issued under the seal be signed by two Directors or one Director and Secretary or some other person authorised by the Board for the purpose PROVIDED that in respect of the Share Certificate the Seal shall be affixed in accordance with Article as mentioned above.
			Dividends and Reserve
☐	☑	80	• 129. Division of profits and dividends in proportion to amount paid- up (a) The profits of the Company subject to any special rights relating thereto created or authorised to be created by these Articles and subject to the provisions of these Articles shall be divisible among the Members in proportion to the amount of capital paid-up or credited as paid-upon the shares held by them. (b)All dividends shall be apportioned and paid proportionately to the amounts paid or credited as paid on the shares held during any portion or portions of the period in respect of which the dividend is paid but if any share is issued on terms providing that it shall rank for dividend from a particular date such share shall rank for dividend accordingly.
☐	☑	81	• 130. The Company in General Meeting may declare a dividend Company in General Meeting may declare dividends to be paid to Members according to their respective rights but no dividends shall exceed the amount recommended by the Board but the Company in General Meeting may declare a smaller dividend.
☐	☑	82	• 131. Dividends only to be paid out of Profits (a) No dividend shall be declared or paid by the Company for any financial year except out of its profits for that year arrived at in the manner set out in Section 123 of the Act. (b) Where owing to inadequacy or absence of profits in any financial year any Company proposes to declare dividend out of the accumulated profits earned by it in previous years and transferred by the company to reserves such declaration of dividend shall not be made except in accordance with such rules as may be made in that behalf. (c) No dividend shall be declared or paid by a company from its reserves other than free reserves.
☐	☑	83	• 132. Interim Dividend Subject to the provisions of Section 123 the Board may from time to time pay the Members

			such interim dividend as appear to it to be justified by the profits of the Company.
☐	☑	84	• 133. Capital paid - up in advance to carry Interest Where capital is paid in advance of calls such capital may carry interest but shall not in respect thereof confer a right to dividend or participate in profits.
☐	☑	85	• 134. Retention of dividends until completion of transfer The Board may retain the dividends payable on shares in terms of Section 126 in respect of which any person is entitled to become a Member or on completion any person under those Articles is entitled to transfer or until such person shall become a Member in respect of such shares or shall duly transfer the same.
☐	☑	86	• 135. Transfer of shares must be Registered A transfer of shares shall not pass the right to any dividend declared thereon before the registration of transfer. Provided that where any instrument of transfer of shares has been delivered to the Company for registration and the transfer of such shares has not been registered by the Company it shall not withstanding anything contained in any other provision of this Act. (a) transfer the dividend in relation to such shares to the Unpaid Dividend Account referred to in Section 124 of the Act unless the Company is authorised by the registered holder of such shares in writing to pay such dividend to the transferee specified in such instrument of transfer and (b) keep in abeyance in relation to such shares any offer of rights shares under clause(a) of sub-section (1) of section 62 of the Act and any issue of fully paid-up bonus shares in pursuance of first proviso to sub-section (5) of section 123 of the Act.
☐	☑	87	• 136. No Member to receive dividend whilst indebted to the Company Companys right of reimbursement Thereon No Member shall be entitled to receive payment as interest or dividend in respect of his shares whilst any money may be due or owing from him to the Company in respect of such share or shares or otherwise howsoever either alone or jointly with any person or persons and the Board may deduct from the interest or dividend payable to any Member all sums of money so due from him to the Company.
☐	☑	88	• 137. Dividends how remitted (1) Unless otherwise directed any dividend payable in cash may be paid by cheque or warrant or in any electronic mode or by a pay slip or receipt or in any other manner having the force of a cheque or warrant sent through the post to the registered address of the Member or person entitled or in case of joint holders to that one of them first named in the Register in respect of the joint holdings. Every such cheque or warrant shall be made payable to the order of the person to whom it is sent the Company shall not be liable or responsible for any cheque or warrant or pay slip or receipt lost in transmission or for any dividend lost to the Member or person entitled thereto by the forged endorsement of any cheque or warrant or the forged signature of any pay slip or receipt or the fraudulent recovery of the dividend by any other means. (2) Notwithstanding any thing contained in these Articles any dividend declared maybe paid by Electronic Clearing System through any Sponsor Bank after getting registration with the Reserve Bank of India for using this

			facility and collecting from the members necessary bank mandate in the prescribed format. 138. Dividends and call together Any General Meeting declaring a dividend may on the recommendation of the Board make a call on the Members of such amount as the meeting may fix but so that the call on each Member shall not exceed the dividend payable to him and so that the call be made payable at the same time as the dividend and the dividend may if so arranged between the Company and the Member be set off against the calls. 139. Unclaimed dividend No unclaimed dividend shall be forfeited and all unclaimed dividends shall be dealt with in accordance with the provisions of Section 124 and other applicable provisions of the Act. 140. No interest against Dividend No dividend shall bear interest against the company.
			Accounts
☐	☑	89	• 141. Directors to keep true accounts (a) Every company shall prepare and keep at its registered office including its branch office or offices or at such other place in India as the Board thinks fit Books of Accounts and other relevant books and papers and financial statement for every financial year which give a true and fair view of the state of the affairs of the company in accordance with Section 128 of the Act with respect to-(i) all sums of money received and expended by the Company and the matters in respect of which the receipts and expenditure take place (ii) all sales and purchases of goods by the Company (iii) the assets and liabilities of the Company. (iv)state of affairs of the company. (b) Where the Board decides to keep all or any of the Books of Account at any place other than the Office of the Company the Company shall within seven days of the decision file with the Registrar a Notice in writing giving the full address of that other place in accordance with Section 128 of the Act. (c) The company may keep such books of account or other relevant papers in electronic mode in such manner as may be prescribed. (d) The Company shall preserve in good order the Books of Account relating to a period of not less than eight financial years immediately preceding a financial year. The books of account and other relevant books and papers maintained in electronic mode shall remain accessible in India so as to be usable for subsequent reference together with the vouchers relevant to any entry in such Books of Account. 142. Inspection of accounts or record by members No Member (not being a director) shall have any right of inspecting any account or books or documents of the Company except as conferred by Section 94 of the Act or authorised by the Board or by the company in general meeting. The Board may determine whether and to what extent and at what time and place and under what conditions or regulations the accounts and books of the Company or any of them may be open to inspection of the Members. Notwithstanding anything to the contrary contained hereinabove the authorised representative of Promoters shall have a right to inspect the accounts books plant facility documents records premises equipment and machinery and all other property of the Company at convenient time(s) after giving advance notice to the Company. 143. Statement of Accounts to be furnished to General Meeting The Directors shall from time to time in accordance with Sections 129 and 134 and other applicable provisions of the Act cause to be

			prepared and to be laid before the Company in General Meeting such Balance Sheets Profit and Loss Accounts and Reports as are required by these Sections. 144. Copies shall be sent to each Member Without prejudice to the provisions of Section 101 and subject to the provisions of Section 136 of the Act a copy of the financial statements including consolidated financial statements auditors report and every other document required by law to be annexed or attached to the Balance Sheet shall at least twenty-one days before the General Body Meeting at which the same are to be laid before the members be sent to the members of the company to every trustee for every holder of any debenture issued by the company and to all persons other than such members or trustee being the person so entitled to attend the General Body Meeting. 145. Copy of financial statement to be filed with registrar The Company shall comply with Section 137 of the Act as to filing copies of the Balance Sheet and Profit and Loss Account and documents required to be annexed or attached thereto with the Registrar.
			Winding up
☐	☑	90	• 146. Procedure for winding up If the Company shall be wound up and the assets available for distribution among the members as such shall be insufficient to repay the whole of the paid up capital such assets shall be distributed so that as nearly as may be the losses shall be borne by the members in proportion to the capital paid up or which ought to have been paid up at the commencement of the winding-up on the shares held by them respectively. And if in a winding-up the assets available for distribution among the members shall be more than sufficient to repay the whole of the capital paid up at the commencement of the winding-up the excess shall be distributed amongst the members in proportion to the capital at the commencement of the winding-up paid up or which ought to have been paid up on the shares held by them respectively. But this Article is to be without prejudice to the rights of the holders of shares issued upon special terms and conditions. If the Company shall be wound up whether voluntarily or otherwise the liquidators may with the sanction of a Special Resolution divide among the contributions in specie or kind any part of the assets of the Company and may with the like sanction vest any part of the assets of the Company in Trustees upon such trusts for the benefit of the contributories or any of them as the liquidators with the like sanction shall think fit.
			Indemnity
☐	☑	91	• 147. Officers to be indemnified Subject to provisions of the Act every Officer of the company shall be indemnified out of the assets of the Company against any liability incurred by him in defending any proceedings whether civil or criminal in which judgment is given in his favour or in which he is acquitted or in which relief is granted to him by the court or the Tribunal. Provided that if such person is proved to be guilty the premium paid on such insurance shall be treated as part of the remuneration.
			Others
☐	☑		• 148. Company not bound to recognize holding of shares on trust or any interest in shares other than that of

			registered holder Except as ordered by a Court of competent jurisdiction or as required by law the Company shall not be bound to recognize holding of any share upon any trust and to recognize any equitable contingent future or partial interest in any share or any interest in any fractional part of a share (except only as is by these Articles otherwise expressly provided) any right in respect of a share other than an absolute right thereto in accordance with these Articles in the person from time to time registered as the holder thereof but the Board shall be at liberty at their sole discretion to register any share in the joint names of any two or more persons or the survivor or survivors of them. 149. Funds etc. of Company may not be applied in purchase of shares of the Company The Company shall not give either directly or indirectly and either by means of a loan guarantee the provision of security or otherwise any financial assistance for the purpose of or in connection with the purchase or subscription made or to be made by any person for purchase of any shares in the Company except inconformity with the provisions of Section 67 of the Act. 150. Underwriting and Brokerage Commission may be paid Subject to the provisions of Section 40 of the Act the Company may at any time pay a commission to any person in consideration of his subscribing or agreeing to subscribe for any shares in or debentures of the Company or procuring or agreeing to procure subscriptions for any shares in or debentures of the Company but so that the commission shall not exceed in case of shares five percent of the price at which the shares are issued and in case of debentures two and a half percent of the price at which the debentures are issued. Such commission may be satisfied by payment in cash or by allotment of fully or partly paid shares or debentures or partly in one way and partly in the other. Brokerage The Company may also on any issue of shares or debentures pay such brokerage as may be lawful. 151. Interest out of Capital Interest maybe paid out of capital Where any shares are issued for the purpose of raising money to defray the expenses of the construction of any work or building or the provision of any plant which cannot be made profitable for a lengthy period the Company may pay interest on so much of that share capital as is for the time being paid up for the period at the rate and subject to the conditions and restrictions provided by the Company Act 2013 and may charge the same to capital as part of the cost of construction of the work or building or the provision of plant. 152. Annual Returns The Company shall comply with the provisions of Sections 92 of the Act as to the making of Annual Returns. 153.Borrowing powers As per the provisions of Section 73 76 179 180 and other applicable provisions of the Act the Board of Directors may from time to time at its discretion by resolution at a meeting of the Board and subject to the approval of the shareholders in General Meeting accept deposits from Members either in advance of calls or otherwise and generally raise or borrow or secure the payment of any sums of money for the purpose of the Company. Provided however where the moneys already borrowed (apart from temporary loans obtained from the Companys bankers in the ordinary due course of business) exceed the aggregate of the paid-up capital of the Company its free reserves (not being reserves set apart for any specific purpose)

			and the securities premium the Board shall not borrow such moneys without the consent of the Company in General Meeting. Payment or repayment of borrowed Moneys Subject to the provisions of Article 64 hereof the payment and repayment of moneys borrowed as aforesaid may be secured in such manner and upon such terms and conditions in all respects as the Board of Directors may think fit by resolutions passed at a meeting of the Board and in particular by the issue of bonds or debentures of the Company whether unsecured or secured by a mortgage or charge over all or any part of the property of the Company (both present and future) including its uncalled capital for the time being and debentures and other securities may be made assignable free from any equities between the Company and the person to whom the same may be issued. Terms of issue of Debentures Any debentures or other securities may be issued or otherwise and may be issued on condition that they shall be convertible into shares of any denomination and with any privileges and conditions to redemption surrender drawing allotment of shares and attending (but not voting) at General Meetings. Debentures with the right to conversion into or allotment of shares shall be issued only with the consent of the Company in General Meetings accorded by special resolution. Register of charges to be Kept The Board shall cause a proper Register to be kept in accordance with the provisions of Section 85 of the Act of all charges and floating charges affecting the property or assets of the Company or any of its undertakings and shall cause the requirements of Sections 77 79 and 81 to 87 (both inclusive) of the Act in that behalf to be duly complied with so far as they are required to be complied with by the Board . Register of Debenture holders The Company shall if at any time it issues debentures keep a Register and Index of Debenture holders in accordance with Section 88 of the Act. The Company shall have the power to keep in any Country outside India a Register of Debenture holders residing outside India in such manner as may be prescribed. Application to Debentures and other securities The provisions of the Articles shall apply mutatis mutandis to debentures bonds or other securities issued by the company. 154. Dematerialization of Securities Definitions For the purpose of this Article Depository means a depository as defined in clause (e) of sub-section (1) of section 2 of the Depositories Act 1996. Beneficial Owner means a person or persons whose name is recorded in the Register maintained by a Depository under the Depository Act 1996. SEBI means the Securities and Exchange Board of India established under section 3 of the Securities Exchange Board of India Act 1992. Securities means the securities as defined in clause(h) of section 2 of the Securities Contracts (Regulation) Act 1956 Dematerialization of Securities Notwithstanding anything contained in these Articles the Company shall be entitled to dematerialize its existing securities rematerialize its securities held in the Depositories and or offer its fresh securities in dematerialized form pursuant to the provisions of the Depositories Act 1996 and the rules framed there under if any. Option for investors Every person subscribing to or holding securities of the Company shall have the option to receive securities certificates or to hold the securities with the Depository. Such a person who is the beneficial

		92	owner of the securities can at any time optout of the Depository if permitted by the law in respect of any security in the manner and within the time prescribed issued to the beneficial owner the required certificate of the securities. If a person opts to hold his securities with a Depository the Company shall intimate such Depository the details of allotment of the security and on receipt of the information the depository shall enter in its records the name of the allottees as the beneficial owner of the securities. Securities in Depository to be in Fungible Form All securities held by a Depository shall be dematerialized and be in fungible form. Nothing contained in Section 88 89 112 and 186 of the Act shall apply to a Depository in respect of the securities held by it on behalf of the Beneficial Owners. Rights and Liabilities of Beneficial Owner (a) Notwithstanding anything to the contrary contained in the Act or these Articles a Depository shall be deemed to be the registered owner for the purposes of effecting transfer of ownership of security on behalf of the beneficial owners. (b) Save as otherwise provided in (a) above the Depository as the registered owner of the securities shall not have any voting rights or any other rights in respect of the securities held by it. (c) Every person holding securities of the Company and whose name is entered as the beneficial owner in the records of the Depository shall be deemed to be a member of the Company. The beneficial owner of securities shall be entitled to all the rights and benefits and be subject to all the liabilities in respect of his securities which are held by a Depository. Service of Documents Notwithstanding anything to the contrary contained in the Act or Articles to the contrary where securities are held in a Depository the records of the beneficial ownership may be served by such Depository on the Company by means of electronic mode or by delivery of floppies or discs . Provisions of Articles to apply to shares held in Depository Nothing contained in Section 56 of the Act or these Articles shall apply to a transfer of securities effected by a transferor and transferee both of whom are entered as beneficial owners in the records of a Depository. Allotment of Securities dealt within a Depository Notwithstanding anything in the Act or these Articles where securities are dealt with by the Depository the Company shall intimate the details thereof to the Depository immediately on allotment of such securities. Distinctive numbers of securities held in the depository Mode Nothing contained in the Act or these Articles regarding the necessity of having distinctive numbers on securities issued by the Company shall apply to securities held with a Depository. Register and Index of Beneficial Owners The Register and Index of Beneficial Owners maintained by a Depository under the Depositories Act 1996 shall be deemed to be the Register and Index of member and security holder for the purpose of these Articles. 155. Conversion of Shares into Stock and Reconversion Shares may be converted into stock and reconverted The Company in General Meeting may convert any paid up shares into stock and when any shares shall have been converted into stock the several holders of such stock may henceforth transfer their respective interest therein or any part of such interest in the same manner and subject to the same regulations as if no such conversion had taken place or as near thereto as circumstances will admit. The

			Company may at any time reconvert any stock into paid-up shares. Rights of stock holders The holders of stock shall according to the amount of stock held by them have the same rights privileges and advantages as regards dividends voting at meetings of the Company and other matters as if they held the shares from which the stock arose. 156. Audit Accounts to be audited The Auditors of the Company shall be appointed or reappointed by the Comptroller and Auditor General of India and their remuneration rights and duties shall be regulated by Section 139 to 143 and 145 to 148 of the Act. Powers of the Comptroller and Auditor General of India The Comptroller and Auditor General of India shall have the powers- (a) to direct the manner in which the Companys accounts shall be audited by the auditors appointed in pursuance of Article hereof and to give such auditors instruction in regard to any matter relating to the performance of their functions as such. (b) to conduct a supplementary or test audit of the financial statement of the Company by such person or persons as he may authorize in this behalf and for the purposes of such audit to have access at all reasonable times to all accounts account books vouchers documents and other papers of the Company and to require information or additional information to be furnished to any person or persons so authorized on such matters by such person or persons and in such form as the Comptroller and Auditor General may by general or special order direct. Comments upon or supplement to audit report by the Comptroller Auditor General of India to be placed before the annual general meeting The auditors aforesaid shall submit a copy of his her audit report to the Comptroller and Auditor General of India who shall have the right to comment upon or supplement such audit report in such manner as he may think fit. Any such comments upon or supplement to the audit report shall be placed before the Annual General Meeting of the Company at the same time and in the same manner as the audit report. 157. Service of Documents Manner of Service of Documents A document or notice may be served or given by the Company to any Member either through speed post registered post or through electronic mode to his registered address or (if he has no registered address in India) to the address if any in India supplied by him to the Company for serving documents or notices on him. Notice is to be sent by the company through its authorized and secured computer programme which is capable of producing confirmation and keeping record of such communication addressed to the person entitled to receive such communication at the last electronic mail address provided by the member. The notice may be sent through e-mail as a text or as an attachment to e-mail or as a notification providing electronic link or Uniform Resource Locator for accessing such notice through in-house facility or its registrar and transfer agent or authorise any third party agency providing bulk e-mail facility. When notices or documents served on Members Where a document or notice is sent by post service of the document or notice shall be deemed to be effected by properly addressing prepaying and posting a letter containing the document or notice. When notice or notifications of availability of notice are sent by e-mail the company should ensure that it uses a system which produces confirmation of the total number of recipients

			e-mailed and a record of each recipient to whom the notice has been sent and copy of such record and any notices of any failed transmissions and subsequent re-sending shall be retained by or on behalf of the company as proof of sending. Provided that the member shall provide the updated email address to the company and for that company will provide an advance opportunity at least once in a financial year to the member to register his e-mail address and changes therein and such request may be made by only those members who have not got their email id recorded or to update a fresh email id. Notice will also be simultaneously updated in the website of the company. By Advertisement A document or notice advertised in a news paper circulating in the neighbourhood of the Registered Office shall be deemed to be duly served or sent on the day on which the advertisement appears on or to every Member who has no registered address in India and has not supplied to the Company an address within India for the serving of documents on sending the notices to him. Explanatory Statement of material facts under Section 102 need not be advertised but it will be mentioned in the advertisement that the Statement has been forwarded to the Members. On personal representatives etc. A document or notice may be served or given by the Company on or to the persons entitled to a share in consequence of the death or insolvency of a Member by sending it through the post in prepaid letter addressed to them by name or by the title of representative of the deceased or assignee of the insolvent or by any like description at the address (if any) in India supplied for the purpose by the persons claimed to be entitled or until such an address has been so supplied by serving the document or notice in any manner in which the same might have been given if the death or insolvency had not occurred. To whom documents or notices must be served or given Documents or notices of every General Meeting shall be served or given in same manner as herein before or to (a) every member of the company legal representative of any deceased member or the assignee of an insolvent member (b) the auditor or auditors of the company and (c) every director of the company. Members bound by documents or notices served on or given to previous holders Every person who by operation of law transfer or other means whatsoever shall become entitled to any share shall be bound by every document or notice in respect of such share which previously to his name and address being entered in the Register of Members shall have been duly served on or given to the person from whom he derives his title to such shares. Documents or notice by Company and signature thereto Any document or notice to be served or given by the Company may be signed by a director or key managerial personnel or an officer of the company duly authorised by the Board in this behalf. Service of document or notice by Member All documents or notices to be served or given by Members on or to the Company or any officer thereof shall be served or given by sending it to the Company or Officer at the Office by post or through electronic mode under a certificate of posting or by registered post or through email. 158. Secrecy (a) Every Director Manager Auditor Treasurer Trustee member of a committee officer servant agent accountant or other person employed in the business of the

			Company shall if so required by the Directors before entering upon his duties sign a declaration pledging himself to observe strict secrecy respecting all transactions and affairs of the Company with the customers and the state of the accounts with individuals and in matters relating thereto and shall by such declaration pledge himself not to reveal any of the matters which may come to his knowledge in the discharge of his duties except when required so to do by the Directors or by law or by the person to whom such matters relate and except so far as maybe necessary in order to comply with any of the provisions in these presents contained. (b) No Member shall be entitled to visit or inspect any work of the Company without the permission of the Directors or to require discovery of or any information respecting any details of the Companys trading or any matter which is or maybe in the nature of a trade secret mystery of trade secret process or any other matter which may relate to the conduct of the business of the Company and which in the opinion of the Directors it would be in expedient in the interest of the Company to disclose. 159. Copies of Memorandum and Articles of Association to be sent by the Company Copies of the Memorandum and Articles of Association of the Company and other documents referred to in Section 17 of the Act shall be sent by the Company to every Member at his request within seven days of the request on payment of such fees as may be prescribed.

Subscriber Details

S. No.	Subscriber Details				
	***Name, Address, Description and Occupation**	**DIN / PAN / Passport number**	***Place**	**DSC**	**Dated**
1	PFC Consulting Limited having R/o First Floor, Urjanidhi, 1, Barakhamba Lane, Connaught Place, New Delhi 110001, thorough its Authorised representative Sachin Arora S/o Prem Lal Arora R/o F-5, 1903, Supertech, Eco, Village, 1, Noida, Gautam Buddh Nagar, Uttar Pradesh-201301, Occupation-Service	A*G*A*4*4*	Delhi		10/06/2025
2	Sanjay Kumar Nayak S/o Jagabandhu Nayak R/o K 713, Jalvayu Tower, Sector-56, Gurgaon, Haryana - 122011 Occupation - Service (As Nominee of PFC Consulting Limited)	0*1*7*9*	Delhi		10/06/2025
3	Rakesh Mohan S/o Lakshman Singh R/o Flat No 364, Sunehari Bagh Appartment, Sector-13 Rohini, Rohini, Sector-14, Delhi - 110085 Occup	0*6*4*2*	Delhi		10/06/2025

	ation - Service (As Nominee of PFC Consulting Limited)				
4	Naveen Kumar S/o Jagdish Chander R/o F-024, Assotech Windsor Court Sector 78, Noida, Uttar Pradesh, India 201301 Occupation- Service (As Nominee of PFC Consulting Limited)	1*4*7*5*	Delhi		10/06/2025
5	Sachin Shukla S/o Raj Kumar Shukla R/o 4th Floor, House No 6, H1 Block, Good Earth City Center, South City II, Gurgaon - 122018, Haryana, India Occupation-Service (As Nominee of PFC Consulting Limited)	0*6*3*6*	Delhi		10/06/2025
6	Neeraj Singh S/o Dayashankar Singh R/o C-703 F-2, The Crescent Appartment, Sector-50, Noida, Gautam Budha Nagar, Uttar Pradesh - 201301 Occupation-Service (As Nominee of PFC Consulting Limited)	0*6*3*9*	Delhi		10/06/2025
7	Rishab Jain S/o Naveen Jain R/o T-11, First Floor, Green Park Extension, Green Park Market, New Delhi - 110016 Occupation- Service (As Nominee of PFC Consulting Limited)	0*4*5*6*	Delhi		10/06/2025

Signed before me						
Name Prefix *(ACA/FCA/ACS/ FCS/ACMA/ FCMA)*	***Name of the witness**	***Address, Description and Occupation**	***DIN / PAN / Passport number / Membership**	***Place**	**DSC**	**Dated**
FCS	Nitin Kochhar	Flat No. 608, Sixth Floor, Pragati Tower - 26, Rajendra Place, New Delhi - 110008 Company Secretary	6*3*	Delhi		10/06/2025

PFC CONSULTING LTD

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लि की पूर्णत स्वामित्वाधीन सहायक कम्पनी)
PFC CONSULTING LIMITED
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No. 04/ITP-108/25-26/RFP

May 08, 2025

To,
Secretary,
Central Electricity Regulatory Commission,
6th, 7th & 8th Floors, World Trade Center,
Tower-B, Nauroji Nagar,
New Delhi – 110029

Subject: Intimation about initiation of the bid process for selection of Transmission Service Provider (TSP) for establishing transmission system for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" and issuance of RFP Document.

Dear Sir,

Ministry of Power vide Gazette Notification no. CG-DL-E-30032025-262168 dated March 27, 2025 has notified PFC Consulting Limited (PFCCL) as Bid Process Coordinator (BPC) to undertake the bid process for selection of Transmission Service Provider (TSP) for establishing **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** in accordance with the Guidelines namely "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging Competition in Development of Transmission Projects" issued by Ministry of Power.

The Request for Proposal (RFP) process has been initiated on May 05, 2025 with the publication of RFP notification in:

1. Indian Express (English) – All Edition
2. Jansatta (Hindi) – All Editions
3. Financial Times (Worldwide) – All Editions

The same has also been made available along with the RFP documents on PFCCL website 'www.pfcclindia.com' w.e.f. May 05, 2025. It may be noted that these RFP Documents are based on the Single Stage Two Envelope (RFQ & RFP combined) based Standard Bidding Documents (SBD) issued by Ministry of Power on August 06, 2021 and project specific inputs furnished by Central Transmission Utility of India Limited (CTUIL) and Central Electricity Authority (CEA). The last date for submission of Responses to RFP is July 08, 2025.

As per the requirements of the Guidelines (Clause 4.2 of Tariff based Competitive-bidding Guidelines for Transmission Service), we hereby intimate the Commission about initiation of the bid process for selection

Shubham Arya

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of Transmission Service Provider (TSP) for establishing transmission system for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**" We are also enclosing herewith the RFP documents for your kind information, perusal and records please.

Thanking You,

Yours sincerely,

(Naveen Phougat)
General Manager

Encl.: As Above

PFC CONSULTING LTD

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लि० की पूर्णत स्वामित्वाधीन सहायक कंपनी)
PFC CONSULTING LIMITED
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No. 04/ITP-108/25-26/RFP

May 08, 2025

To,
Director (Transmission),
Ministry of Power,
Shram Shakti Bhawan,
New Delhi – 110001

Subject: Publishing RFP notification and RFP Documents for Selection of the Transmission Service Provider for establishing transmission system for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" on the website of MoP.

Dear Sir,

Ministry of Power vide Gazette Notification no. CG-DL-E-30032025-262168 dated March 27, 2025 has notified PFC Consulting Limited (PFCCL) as Bid Process Coordinator (BPC) to undertake the bid process for selection of Transmission Service Provider (TSP) for establishing "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**" in accordance with the Guidelines namely "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging Competition in Development of Transmission Projects" issued by Ministry of Power.

The bid process for selection of Transmission Service Provider (TSP) for establishing transmission system for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**" has been initiated with the publication of RFP notification on May 05, 2025 (copy of the RFP notification enclosed). The same has also been made available along with the RFP document on PFCCL website 'www.pfcclindia.com' w.e.f. May 05, 2025. It may be noted that these RFP Document are based on the Single Stage Two Envelope (RFQ & RFP combined) Standard Bidding Documents (SBD) issued by Ministry of Power on August 06, 2021. The last date for submission of Responses to RFP is July 08, 2025.

It is requested that in line with the requirements of the Guidelines (Clause 9.2 of Tariff based Competitive bidding Guidelines for Transmission Service), the RFP Notice and RFP documents may be published on the website of Ministry of Power. The soft copy of the RFP Notification and RFP documents has been mailed separately at the email address transdesk-mop@nic.in. We are also enclosing herewith the RFP documents for your kind information, perusal and records please.

Thanking You,

Yours sincerely,

(Naveen Phougat)
General Manager

Encl.: As Above

SINGLE STAGE REQUEST FOR PROPOSAL DOCUMENT

FOR

SELECTION OF BIDDER AS TRANSMISSION SERVICE PROVIDER THROUGH TARIFF BASED COMPETITIVE BIDDING PROCESS

TO

ESTABLISH INTER-STATE TRANSMISSION SYSTEM

FOR

TRANSMISSION SYSTEM FOR KURNOOL-IV REZ - PHASE-II (3 GW)

ISSUED BY

PFC CONSULTING LTD.
(A wholly owned subsidiary of Power Finance Corporation Ltd.)

Registered Office:
1st Floor, "Urjanidhi", 1, Barakhamba Lane,
Connaught Place, New Delhi-110001

May 05, 2025

Shubham Arya
Digitally signed by: Shubham Arya
DN: CN = Shubham Arya C = IN O = Personal
Date: 2026.06.04 14:35:10 +05'30'

PFC CONSULTING LIMITED

(A wholly owned subsidiary of Power Finance Corporation Limited)

Corporate Office:
9th Floor, A-Wing, Statesman House
Connaught Place, New Delhi-110001

Request for Proposal Document for selection of Bidder as Transmission Service Provider through tariff based competitive bidding process to establish Inter-State Transmission System for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" is issued by PFC Consulting Limited.

This RFP document is issued to -

M/s. _____

_____

_____

_____

_____

General Manager
PFC Consulting Limited
9th Floor, A-Wing, Statesman House
Connaught Place, New Delhi-110001
Email: pfccl.itp@pfcindia.com
Place: New Delhi
Date:

REQUEST FOR PROPOSAL NOTIFICATION

PFC CONSULTING LIMITED

(A wholly owned subsidiary of Power Finance Corporation Limited)

Corporate Office:
9th Floor, A-Wing, Statesman House
Connaught Place, New Delhi-110001

1. The Government of India, Ministry of Power, vide its gazette notification no **CG-DL-E-30032025-262168** dated March 27, 2025 has notified PFC Consulting Limited (PFCCL) to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system for **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** through tariff based competitive bidding process.

2. PFC Consulting Limited (PFCCL) (hereinafter referred to as BPC) hereby invites all prospective Bidders for issue of Request for Proposal (RFP) for selection of Bidder as Transmission Service Provider (TSP) on the basis of international competitive bidding in accordance with the "Tariff Based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power under section – 63 of The Electricity Act, 2003 and as amended from time to time. The responsibility of the TSP would be to establish the following Inter-State Transmission System – **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** (hereinafter referred to as 'Project') on build, own, operate & transfer basis and to provide transmission service:

Transmission System for Kurnool-IV REZ - Phase-II (3 GW)		
S No.	**Name of Transmission Element**	**Scheduled COD in months from Effective Date**
1.	Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs. • 400/220kV, 500 MVA, ICTs – 4 nos. • 400kV ICT bays – 4 nos. • 400kV Bus Sectionalizer: 1 set • 220kV ICT bays – 4 nos. • 220kV Bus Sectionalizer: 1 set • 220 kV Bus Coupler (BC) Bay – 1 nos. • 220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	24 Months
2.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 220kV line bays – 5 nos.	24 Months
3.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 400kV line bays – 1 no.	24 Months
4.	Augmentation of Kurnool-IV PS by 765/400kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs • 765/400kV, 1500 MVA, ICTs – 2 nos. • 765kV ICT bays – 2 nos. • 400kV ICT bays – 2 nos. • 400/220kV, 500 MVA, ICTs – 6 nos. • 400kV ICT bays – 6 nos. • 220kV ICT bays – 6 nos.	30 Months

	• 220kV Bus Sectionalizer: 1 set • 220 kV Bus Coupler (BC) Bay – 1 nos. • 220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	
5.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 220kV line bays – 8 nos.	30 Months
6.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 400kV line bays – 1 no.	30 Months
7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard • 765/400kV, 1500 MVA, ICTs – 4 nos. (13x500 MVA incl. 1 spare unit) • 765kV ICT bay – 4 nos. • 400kV ICT bay – 4 nos. • 765kV line bays – 4 nos. (at Shadnagar for termination of LILO of Kurnool-IV – Bidar 765kV D/c line) • 765kV, 330 MVAr Bus Reactors – 2 nos. (7x110 MVAr inc. 1 switchable spare unit) • 765kV Bus Reactor bays – 2 nos. • 400kV line bays – 4 nos. (at Shadnagar for termination of Shadnagar – Shadnagar (TGTRANSCO) and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c lines) **Future Space Provisions:** • 765/400kV, 1500 MVA, ICTs – 2 nos. • 765kV ICT bays – 2 nos. • 400kV ICT bays – 2 nos. • 765kV line bays – 8 nos. (with provision for SLR) • 400kV line bays – 8 nos. (with provision for SLR) • 400kV Bus Sectionalizer: 1 set **Future Space Provisions for 220kV switchyard:** • 400/220kV, 500 MVA, ICTs – 10 nos. • 400kV ICT bays – 10 nos. • 220kV ICT bays – 10 nos. • 220kV line bays – 16 nos. • 220kV Bus Sectionalizer: 3 set • 220 kV Bus Coupler (BC) Bay – 4 no. • 220 kV Transfer Bus Coupler (TBC) Bay – 4 no.	30 Months
8.	LILO of Kurnool-IV – Bidar 765kV D/c line at Shadnagar (about 50 kms)	30 Months
9.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/c line (about 50 kms) {TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame} • 400kV line bays – 2 nos. (at Shadnagar (TGTRANSCO))	30 Months
10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c line (about 60 kms) • 400kV line bays – 2 nos. (at Kethiredipally (TGTRANSCO))	30 Months

Notes :

i) TSP of Kurnool-IV Phase-I shall provide space at Kurnool-IV PS for carrying out above augmentation works.

ii) TGTRANSCO shall provide space for 2 nos. of 400 kV line bays at Shadnagar (TGTRANSCO) and Kethireddipally each for termination of Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/C line and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line.

3. The TSP shall ensure that design; construction and testing of all equipment, facilities, components and systems of the Project shall be in accordance with the provisions of the Transmission Service Agreement and applicable Rules/ Regulations, Orders and Guidelines issued by the Central Government.

4. **Transmission License:** The TSP shall obtain the Transmission License from the Commission.

5. **Bidding Process:** The Transmission Service Provider shall be selected through tariff based competitive bidding process for the Project based on meeting stipulated Qualification Requirements prescribed in Clause 2.1 of Section 2 of RFP and the lowest Quoted Transmission Charges discovered from Final Offers quoted during the e-reverse bidding. The selection of the TSP shall be subject to it obtaining Transmission License from the Commission, which, after expiry, may be further extended by such period as deemed appropriate by the Commission under powers vested with it to amend the conditions of the Transmission License.

   The entire bidding process shall be conducted on electronic platform created by MSTC Limited.

   The Bid shall be a single stage two envelope bid comprising the Technical Bid and the Financial Bid. The Bidders shall submit the Bid online through the electronic bidding platform. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. There shall be no physical submission of the Financial Bid.

   The Technical Bid shall be opened first and the Financial Bid of only the bidder who have qualified in the Technical Bid shall be opened. The Financial Bid will comprise of two rounds. In the first round the Initial Offer of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending order. The Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction stage and submit their Final Offer.

6. The objective of the bidding process is to select a Successful Bidder pursuant to this RFP, who shall acquire one hundred percent (100%) of the equity shares of **(SPV UNDER INCORPORATION)** along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement, at the Acquisition Price to be intimated by the BPC, twenty (20) days prior to the Bid Deadline.

   The **(SPV UNDER INCORPORATION)**, of which one hundred percent (100%) equity shares will be acquired by the Selected Bidder, shall be responsible as the TSP, for ensuring that it undertakes ownership, financing, development, design, engineering, procurement, construction, commissioning, operation and maintenance of the Project, and to provide Transmission Service as per the terms of the RFP Project Documents.

   The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer

shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto.

7. **Commencement of Transmission Service**: The Bidder shall have to commence Transmission Service in accordance with the provisions of the Transmission Service Agreement.

8. **Transmission Charges**: The Transmission Charges shall be payable by the Designated ISTS Customers in Indian Rupees through the CTU as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time. Bidders shall quote the Transmission Charges as per the pre-specified structure, as mentioned in the RFP.

9. **Issue of RFP document:** The detailed terms and conditions for qualification and selection of the Transmission Service Provider for the Project and for submission of Bid are indicated in the RFP document. All those interested in purchasing the RFP document may respond in writing to **General Manager, Tel. +91 11 23443996, Fax +91 11 23443990, Email: pfccl.itp@pfcindia.com** at the address given in para 12 below with a non-refundable fee of **Rs. 5,00,000/- (Rupees Five Lakh Only) or US$ 7000/- (US Dollars Seven Thousand Only)** plus 18% GST, to be paid via electronic transfer to the following Bank Account**:**

Bank Account Name	**: PFC Consulting Limited**
Account No.	**: 000705036117**
Bank Name	**: ICICI Bank**
IFSC	**: ICIC0000007**
Branch	**: Connaught Place, New Delhi-110001**

latest by **May 05, 2025.** Immediately after issuance of RFP document, the Bidder shall submit the Pre-Award Integrity Pact in the format as prescribed in **Annexure B**, which shall be applicable for and during the bidding process, duly signed on each page by any whole-time Director / Authorized Signatory, duly witnessed by two persons, and shall be submitted by the Bidder in two (2) originals in a separate envelope, duly superscripted with Pre-Award Integrity Pact. The Bidder shall submit the Pre-Award Integrity Pact on non-judicial stamp paper of Rs. 100/- each duly purchased from the National Capital Territory of Delhi. In case the Bidder is in a consortium, the Pre-Award Integrity Pact shall be signed and submitted by each member of the Consortium separately.

The RFP document shall be issued to the Bidders on any working day from **May 05, 2025 to July 07, 2025, between 10:30 hours (IST) to 16:00 hours (IST).** The BPC, on written request and against payment of the above mentioned fee by any Bidder shall promptly dispatch the RFP document to such Bidder by registered mail/ air mail. BPC shall, under no circumstances, be held responsible for late delivery or loss of documents so mailed.

10. **Receipt and opening of Bid:** The Bid must be uploaded online through the electronic bidding platform on or before **15:00 hours (IST) on July 08, 2025**. Technical Bid will be opened by the Bid Opening Committee on the same day at 15:30 hours (IST) in the office of Central Electricity Authority, in the online presence of Bidders' representatives who wish to attend. If the Bid Deadline is a public holiday at the place of submission of Bid, it shall be opened on the next working day at the same time and venue. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clause 3.2 to 3.4 shall be declared as "Qualified Bidders" and eligible for opening of Initial Offer.

11. The RFP document is not transferable. BPC reserves the right to reject all Bid and/or annul the process of tariff based competitive bidding for selection of Bidder as TSP to execute the Project without assigning any reason. BPC shall not bear any liability, whatsoever, in this regard.

12. **Nodal person for enquiries and clarifications**

    All correspondence and clarification in respect of RFP document shall be addressed to:

General Manager
PFC Consulting Limited
9th Floor, A-Wing, Statesman House
Connaught Place, New Delhi - 110001, India
Tel. + 91-11-23443996
Fax + 91-11-23443990
Email: pfccl.itp@pfcindia.com

DISCLAIMER

1. This Request for Proposal (RFP) document is not an agreement or offer by the BPC to the prospective Bidders or to any other party. The purpose of this RFP document is to provide interested parties with information to assist the formulation of their Bid. The RFP document is based on material and information available in public domain.

2. This RFP, along with its Annexures, is not transferable and the information contained therein are to be used only by the person to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors). In the event that the recipient does not continue with its involvement in the Project in accordance with this RFP, this RFP must be kept confidential.

3. While this RFP has been prepared in good faith, neither the BPC nor its employees or advisors/consultants make any representation or warranty expressed or implied as to the accuracy, reliability or completeness of the information contained in this RFP. The Bidders shall satisfy themselves, on receipt of the RFP document, that the RFP document is complete in all respects. Intimation of any discrepancy shall be given to this office immediately. If no intimation is received from any Bidder within ten (10) days from the date of issue of this RFP document on or before the date & time mentioned in this RFP, it shall be considered that the issued document, complete in all respects, has been received by the Bidders.

   This bidding process is in accordance with the Bidding Guidelines issued by Ministry of Power, Government of India under Section 63 of the Electricity Act, 2003. Revisions or amendments in these Bidding Guidelines may cause the BPC to modify, amend or supplement this RFP document, including the RFP Project Documents to be in conformance with the Bidding Guidelines.

4. This RFP document includes statements, which reflect various assumptions arrived at by BPC in order to give a reflection of current status in the RFP. These assumptions should not be entirely relied upon by Bidders in making their own assessments. This RFP document does not purport to contain all the information each Bidder may require and may not be appropriate for all persons. It is not possible for BPC to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP document. Certain Bidders may have a better knowledge of the Project than the others. Each Bidder should conduct its own investigations and analysis and should check the accuracy, reliability and completeness of the information in this RFP document and obtain independent advice from appropriate sources.

5. Neither BPC nor their employees or consultants make any representation or warranty as to the accuracy, reliability or completeness of the information in this RFP document.

6. Neither BPC, its employees nor its consultants will have any liability to any Bidder or any other person under the law of contract, tort, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this RFP document, any matter deemed to form part of this RFP document, the award of the Project, the information supplied by or on behalf of BPC or its employees, any consultants or otherwise arising in any way from the qualification process for the said Project.

7. By participating in the bidding process, each of the Bidder shall have acknowledged and accepted that it has not been induced to enter into such agreement by any representation or warranty, expressed or implied, or relied upon any such representation or warranty by or on behalf of BPC or any person working in the bidding process.

8. BPC may in its absolute discretion, but without being under any obligation to do so, update, amend

or supplement this RFP document. Such updations, amendments or supplements, if any, will however be circulated to the Bidders not later than 15 days prior to the last date for submission of Bid.

9. Each Bidder unconditionally agrees, understands and accepts that the BPC reserves the rights to accept or reject any or all Bids without giving any reason. Neither the BPC nor its advisers shall entertain any claim of any nature, whatsoever, including without limitations, any claim seeking expenses in relation to the preparation of Bids.

10. This RFP may be withdrawn or cancelled by the BPC at any time without assigning any reasons thereof. BPC further reserves the right, at its complete discretion to reject any or all of the Bids without assigning any reasons whatsoever.

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DEFINITIONS

Any capitalized term, used but not defined in this RFP, shall have the meaning ascribed to such term in the RFP Project Documents, or the Bidding Guidelines, in that order. In absence of availability of definitions in the foregoing references, the capitalized terms shall be interpreted in accordance with the Electricity Act 2003, Grid Code or any other relevant electricity law, rule or regulation prevalent in India, as amended or re-enacted from time to time, in that order.

The following terms are defined for use in this RFP:

"Acquisition Price" shall have the same meaning as defined in the Share Purchase Agreement;

"Affiliate" shall mean a company that either directly or indirectly

i. controls or

ii. is controlled by or

iii. is under common control with

a Bidding Company (in the case of a single company) or a Member (in the case of a Consortium) and "**control**" means ownership by one entity of at least twenty six percent (26%) of the voting rights of the entity. As an illustration a chart is annexed hereto as Annexure – 12;

"Bid" shall mean Technical Bid and Financial Bid (Initial Offer and Final Offer) submitted by the Bidder, in response to this RFP, in accordance with the terms and conditions thereof;

"Bidder" shall mean either a single company (including its permitted successors and legal assigns) or a Consortium of companies (including its permitted successors and legal assigns) submitting a Bid in response to this RFP. Any reference to the Bidder includes Bidding Company, Bidding Consortium/ Consortium, Member in a Bidding Consortium and Lead Member of the Bidding Consortium jointly and severally, as the context may require;

"Bidding Company" shall refer to such single company (including its permitted successors and legal assigns) that has submitted a Bid for the Project;

"Bidding Consortium/ Consortium" shall refer to a group of companies (including their permitted successors and legal assigns) that has collectively submitted a Bid for the Project;

"Bidding Guidelines" shall mean the "Tariff Based Competitive-Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power under Section – 63 of Electricity Act as amended from time to time;

"Bid Bond" shall mean the unconditional and irrevocable bank guarantee for **Rs.43.40 Crore** (**Rupees Forty Three Crore Forty Lakh Only)**, to be submitted along with the Technical Bid by the Bidder under Clause 2.11 of this RFP, as per the format prescribed in Annexure 14**;**

"Bid Deadline" shall mean the last date and time for submission of online Bid in response to this RFP, specified in Clause 2.7.1;

"Bid Process Coordinator or BPC" shall mean a person or its authorized representative as notified by the Government of India, responsible for carrying out the process for selection of Bidder who will acquire Transmission Service Provider;

"Bid Security Declaration" shall mean the declaration to be submitted along with the Technical Bid by the Bidder in lieu of the Bid Bond as per the format prescribed in annexure 14A (only applicable for projects for which RFP has been Issued before 31.12.2021)

"CEA" shall mean the Central Electricity Authority constituted under Section - 70 of the Electricity Act;

"Commission" or "CERC" shall mean the Central Electricity Regulatory Commission of India constituted under Section-76 of The Electricity Act, 2003 and any successors and assigns;

"Conflict of Interest" A Bidder shall be considered to be in a Conflict of Interest with one or more Bidders in the same bidding process if they have a relationship with each other, directly or through a common company, that puts them in a position to have access to information about or influence the Bid of another Bidder.

Provided that if two or more bidders in the bidding process have formed a Joint Venture Company or Consortium to execute another project, the Bidders will not be considered to have Conflict of Interest;

"Commercial Operation Date (COD)" shall mean the date as per Article 6.2 of the Transmission Service Agreement;

"Consents, Clearances, Permits" shall mean all authorizations, licenses, approvals, registrations, permits, waivers, privileges, acknowledgements, agreements, or concessions required to be obtained from or provided by any concerned authority for the development, execution and performance of Project including without any limitation on the construction, ownership, operation and maintenance of the transmission lines and/or sub-stations;

"Contract Performance Guarantee" shall have the meaning as per Clause 2.12 of this RFP;

"Contract Year" shall mean the period beginning on the Scheduled COD, and ending on the immediately succeeding March 31 and thereafter each period of 12 months beginning on April 1 and ending on March 31 provided that:

(i) the last Contract Year shall end on the last day of the term of the Transmission Service Agreement;

"Infrastructure sector" shall mean such sectors notified by Department of Economic Affairs in its Gazette Notification no. 13/1/2017-INF dated 14th November, 2017 and as amended from time to time;

"CTU/Central Transmission Utility" shall have same meaning as defined in the Electricity Act, 2003;

"Designated ISTS Customers" or "DICs" shall have the meaning as ascribed in Regulation 2(l) of Central Electricity Regulatory Commission (Sharing of inter-State Transmission Charges and Losses) Regulation 2020 and as amended or modified from time to time;

"Effective Date" shall have the meaning as ascribed thereto in the Transmission Service Agreement;

"Element" shall mean-each Transmission Line or each circuit of the Transmission Lines (where there are more than one circuit) or each bay of the Sub-station or switching station or HVDC terminal or inverter station of the Project, including ICTs, Reactors, SVC, FSC, etc. forming part of the ISTS which will be owned, operated and maintained by the concerned ISTS Licensee, and which may have a separate scheduled COD as per Schedule 2 of the Transmission Service Agreement and may have a separate percentage for recovery of Transmission Charges on achieving COD as per Schedule 5 of the Transmission Service Agreement;

"**National Committee on Transmission**" shall mean the committee constituted by the Ministry of Power, Government of India in term of the "Guidelines for Encouraging Competition in Development of Transmission Projects", as notified from time to time

"Final Offer" shall mean the Quoted Transmission Charges, required to be submitted as part of the Financial Bid on the electronic bidding platform during the e-reverse bidding stage. In case, no Final Offer is received during the e-reverse bidding stage then the lowest "Initial Offer" shall be deemed to be the Final Offer**;**

"Financial Bid" shall mean the Initial Offer and Final Offer, containing the Bidder's Quoted Transmission Charges, as per the format at Annexure – 21 of this RFP**;**

"Financially Evaluated Entity" shall mean the company which has been evaluated for the satisfaction of the financial requirement set forth in Clause **2.1.3** hereof;

"Government" shall mean the Central Government;

"Grid Code" / "IEGC" or **"State Grid Code"** shall mean the Grid Code specified by the Central Commission under clause (h) of sub-section (1) of Section 79 of the Electricity Act and/or the State Grid Code as specified by the concerned State Commission referred under clause (h) of sub-section (1) of Section 86 of the Electricity Act as applicable;

"Initial Offer" shall mean the Quoted Transmission Charges, required to be submitted as part of the Financial Bid on the electronic bidding platform along with the Technical Bid**;**

"Inter State Generating Station" or "ISGS" shall mean a Central / other generating station in which two or more states have shares and whose scheduling is to be coordinated by the Regional Load Dispatch Centre;

"Inter-State Transmission System" shall have same meaning as defined in the Electricity Act, 2003;

"Lead Member of the Bidding Consortium" or "Lead Member" shall mean a company who commits at least twenty six percent (26%) equity stake in the Project, meets the technical requirement as per Clause 2.1.2 and so designated by other Member(s) in Bidding Consortium;

"Letter of Intent" or "LoI" shall mean the letter to be issued by the BPC to the Bidder, who has been identified as the selected bidder, for award of the Project to such Bidder;

"Member in a Bidding Consortium/Member" shall mean each company in the Bidding Consortium;

"MOP" shall mean the Ministry of Power, Government of India;

"MOEF" shall mean the Ministry of the Environment and Forests, Government of India;

"Nodal Agency" shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA);

Provided that while taking major decisions, CTU shall consult CEA on technical matters and any other matter it feels necessary.

"Parent Company" shall mean an entity that holds at least twenty six percent (26%) of the paid - up equity capital directly or indirectly in the Bidding Company or in the Member in a Bidding Consortium, as the case may be;

"Qualification Requirements" shall mean the qualification requirements as set forth in Section-2, Clause 2.1 of this RFP;

"Quoted Transmission Charges" shall mean the quoted single annual Transmission Charges submitted online through the electronic bidding platform by the Bidder as part of its Financial Bid as per the format in Annexure – 21 of this RFP;

"RFP" shall mean Request for Proposal document along with all schedules, formats, annexure and RFP Project Documents attached hereto, issued by BPC for tariff based competitive bidding process for selection of bidder who will acquire the TSP through e-reverse bidding to execute the Project, and shall include any modifications, amendments or alterations or clarifications thereto;

"RFP Project Documents" shall mean the following documents to be entered into in respect of the Project, by the parties to the respective agreements:

a. Transmission Service Agreement (TSA),

b. Share Purchase Agreement,

c. Agreement(s) required, if any, under Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time and

d. Any other agreement, as may be required;

"Scheduled COD" shall have the meaning as ascribed hereto in Clause 2.6 of this RFP;

"Statutory Auditor" shall mean the auditor appointed under the provisions of the Companies Act, 1956 / Companies Act, 2013 (as the case may be) or under the provisions of any other applicable governing law;

"Share Purchase Agreement" shall mean the agreement amongst **PFC Consulting Limited**, **(SPV UNDER INCORPORATION)** and the Successful Bidder for the purchase of one hundred (100%) per cent of the shareholding of the **(SPV UNDER INCORPORATION)** for the Acquisition Price, by the Successful Bidder on the terms and conditions as contained therein;

"Successful Bidder" or **"Selected Bidder"** shall mean the Bidder selected pursuant to this RFP to acquire one hundred percent (100%) equity shares of **(SPV UNDER INCORPORATION)**, along with all its related assets and liabilities, which will be responsible as the TSP to establish the Project on build, own, operate and transfer basis as per the terms of the Transmission Service Agreement and other RFP Project Documents;

"Survey Report" shall mean the report containing initial information regarding the Project and other details provided as per the provisions of Clause 1.6.2.1.1 of this RFP;

"Technical Bid" shall mean the bid submitted online through the electronic bidding platform, containing the documents as listed out in Clause 2.5.2 of this RFP;

"Technically Evaluated Entity" shall mean the company which has been evaluated for the satisfaction of the technical requirement set forth in Clause 2.1.2 hereof;

"Transmission Charges" shall mean the Final Offer quoted by Selected Bidder and adopted by the Commission, and as computed in terms of the provisions of Schedule 4 of the TSA, payable to the ISTS Licensee by the Designated ISTS Customers, and collected / disbursed by the CTU, as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time;

"Transmission License" shall mean the license granted by the Commission in terms of the relevant regulations for grant of such license issued under the Electricity Act, 2003;

"Transmission Service Agreement" or **"TSA"** shall mean the agreement entered into between Nodal Agency and the TSP, pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project on a commercial basis;

"Transmission Service Provider" or "TSP" shall mean **(SPV UNDER INCORPORATION)** which has executed the Transmission Service Agreement and which shall be acquired by the Selected Bidder;

"Ultimate Parent Company" shall mean an entity which owns at least twenty six percent (26%) equity in the Bidding Company or Member of a Consortium, (as the case may be) and in the Technically Evaluated Entity and/or Financially Evaluated Entity (as the case may be) and such Bidding Company or Member of a Consortium, (as the case may be) and the Technically Evaluated Entity and/or Financially Evaluated Entity (as the case may be) shall be under the direct control or indirectly under the common control of such entity.

SECTION – 1

INTRODUCTION

SECTION 1

1. INTRODUCTION

1.1 The Government of India, Ministry of Power, vide its gazette notification no **CG-DL-E-30032025-262168** dated March 27, 2025 has notified PFC Consulting Limited (PFCCL) to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system for **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** through tariff based competitive bidding process.

The BPC hereby invites Bids from all prospective Bidders in accordance with this Request for Proposal (RFP) to select prospective Transmission Service Provider (TSP) in accordance with the "Tariff Based Competitive-Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power under Section – 63 of the Electricity Act. The BPC shall select the Bidder having the prescribed technical and financial capability to become TSP and be responsible for establishing the Project in the state(s) of Andhra Pradesh. The TSP will make the Project available against payment of Transmission Charges, as adopted by the Commission, payable to the TSP, as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.

1.2 The TSP will be required to establish the following Inter State Transmission System for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** (hereinafter referred to as 'Project') on build, own, operate and transfer basis, and to provide transmission service.

Transmission System for Kurnool-IV REZ - Phase-II (3 GW)		
S No.	**Name of Transmission Element**	**Scheduled COD in months from Effective Date**
1.	Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs. • 400/220kV, 500 MVA, ICTs – 4 nos. • 400kV ICT bays – 4 nos. • 400kV Bus Sectionalizer: 1 set • 220kV ICT bays – 4 nos. • 220kV Bus Sectionalizer: 1 set • 220 kV Bus Coupler (BC) Bay – 1 nos. • 220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	24 Months
2.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 220kV line bays – 5 nos.	24 Months
3.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 400kV line bays – 1 no.	24 Months
4.	Augmentation of Kurnool-IV PS by 765/400kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs • 765/400kV, 1500 MVA, ICTs – 2 nos. • 765kV ICT bays – 2 nos. • 400kV ICT bays – 2 nos. • 400/220kV, 500 MVA, ICTs – 6 nos. • 400kV ICT bays – 6 nos. • 220kV ICT bays – 6 nos. • 220kV Bus Sectionalizer: 1 set	30 Months

	• 220 kV Bus Coupler (BC) Bay – 1 nos. • 220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	
5.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 220kV line bays – 8 nos.	30 Months
6.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 400kV line bays – 1 no.	30 Months
7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard • 765/400kV, 1500 MVA, ICTs – 4 nos. (13x500 MVA incl. 1 spare unit) • 765kV ICT bay – 4 nos. • 400kV ICT bay – 4 nos. • 765kV line bays – 4 nos. (at Shadnagar for termination of LILO of Kurnool-IV – Bidar 765kV D/c line) • 765kV, 330 MVAr Bus Reactors – 2 nos. (7x110 MVAr inc. 1 switchable spare unit) • 765kV Bus Reactor bays – 2 nos. • 400kV line bays – 4 nos. (at Shadnagar for termination of Shadnagar – Shadnagar (TGTRANSCO) and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c lines) **Future Space Provisions:** • 765/400kV, 1500 MVA, ICTs – 2 nos. • 765kV ICT bays – 2 nos. • 400kV ICT bays – 2 nos. • 765kV line bays – 8 nos. (with provision for SLR) • 400kV line bays – 8 nos. (with provision for SLR) • 400kV Bus Sectionalizer: 1 set **Future Space Provisions for 220kV switchyard:** • 400/220kV, 500 MVA, ICTs – 10 nos. • 400kV ICT bays – 10 nos. • 220kV ICT bays – 10 nos. • 220kV line bays – 16 nos. • 220kV Bus Sectionalizer: 3 set • 220 kV Bus Coupler (BC) Bay – 4 no. • 220 kV Transfer Bus Coupler (TBC) Bay – 4 no.	30 Months
8.	LILO of Kurnool-IV – Bidar 765kV D/c line at Shadnagar (about 50 kms)	30 Months
9.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/c line (about 50 kms) {TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame} • 400kV line bays – 2 nos. (at Shadnagar (TGTRANSCO))	30 Months
10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c line (about 60 kms) • 400kV line bays – 2 nos. (at Kethiredipally (TGTRANSCO))	30 Months

Notes :

i) TSP of Kurnool-IV Phase-I shall provide space at Kurnool-IV PS for carrying out above augmentation works.

ii) TGTRANSCO shall provide space for 2 nos. of 400 kV line bays at Shadnagar (TGTRANSCO) and Kethireddipally each for termination of Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/C line and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line.

1.3 Description of the Transmission Scheme

Govt. of India has set a target of 500 GW generation capacity from non-fossil fuel resources by 2030. In this direction, MNRE has identified addition of 86 GW RE Potential in the State of Andhra Pradesh, Telangana, Karnataka and Tamil Nadu (Offshore) in Southern Region. Out of the identified (86 GW) RE Potential in Southern Region, 51 GW has been identified in the State of Andhra Pradesh (Ananthapur– 20 GW, Kurnool – 23 GW & Kadapa – 8 GW).

Transmission System for integration of Kurnool-IV REZ was evolved for potential REZ in Kurnool area in two phases. Presently, Transmission System for integration of Kurnool-IV REZ Phase-I is under implementation and details of the transmission scheme is as below:

Transmission System for Integration of Kurnool-IV REZ - Phase-I

- Establishment of 4x1500 MVA, 765/400 kV & 4x500 MVA, 400/220 kV Kurnool-IV Pooling Station near Kurnool, Andhra Pradesh along with 2x330 MVAr (765 kV) bus reactors at Kurnool-IV PS with provision of two (2) sections of 4500 MVA each at 400 kV level
- Kurnool-IV – Bidar 765 kV D/C line (about 330 kms) with 330 MVAr SLR (convertible) at both end on both circuits
- Kurnool-IV – Kurnool-III PS 765 kV D/C line (about 150 kms) with 240 MVAr SLR (convertible) at Kurnool-IV end on both circuits
- + 300 MVAr STATCOM at Kurnool-IV, 2x125 MVAr MSR
- Augmentation of 1x1500 MVA, 765/400 kV ICT (3rd) at C'Peta
- LILO of Vijayawada-Nellore 400 kV D/C line at C'Peta (about 20 kms)

Presently, Connectivity of about 4300 MW (3403 MW at 220 kV level and 900 MW at 400 kV level) has been granted / agreed for grant at Kurnool-IV PS with Phase-I Transmission System. In addition to the above, connectivity of about 3200 MW (2700 MW at 220 kV level and 500 MW at 400 kV) has already been received at Kurnool-IV PS. In view of above, for grant of connectivity to above applications, additional system strengthening scheme beyond Kurnool-IV PS is required. Accordingly, Transmission System for Integration of Kurnool-IV REZ - Phase-II was identified.

The Transmission System was discussed and agreed in the 36th CMETS-SR held on 19.12.2024. The scheme was further discussed and agreed in the special SRPC meeting held on 04.02.2025. The National Committee on Transmission in its 28th meeting held on 06.03.2025 has recommended the implementation of the subject transmission scheme through TBCB route and has identified the PFCCL as BPC for bidding of the transmission scheme.

Ministry of Power vide Gazette notification dated 27.03.2025 has notified the transmission scheme for implementation through TBCB route.

1.4 **Transmission Grid Map**

Transmission Grid Map indicating the location of the Project is enclosed as **Annexure 18** of this RFP for information and reference of the Bidders**.**

1.5 The objective of the bidding process is to select a Successful Bidder pursuant to this RFP, who shall acquire one hundred percent (100%) of the equity shares of **(SPV UNDER INCORPORATION)** along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement, at the Acquisition Price to be intimated by the BPC, twenty (20) days prior to the Bid Deadline.

The **(SPV UNDER INCORPORATION)**, of which one hundred percent (100%) equity shares will be acquired by the Selected Bidder, shall be responsible as the TSP, for ensuring that it undertakes ownership, financing, development, design, engineering, procurement, construction, commissioning, operation and maintenance of the Project, and to provide Transmission Service as per the terms of the RFP Project Documents.

The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto.

1.6 Brief Scope of Work

1.6.1 **Scope of Transmission Service Provider**

The TSP's scope of work for the Project shall comprise, but not necessarily be limited to the following:

1.6.1.1 Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment & forest, civil aviation, railway/ road/river/canal/power crossing/PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing & commissioning.

Further, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.

1.6.1.2 The TSP shall ensure that design, construction and testing of all equipment, facilities, components and systems of the Project shall be in accordance with Transmission Service Agreement and applicable Rules/ Regulations, Orders and Guidelines issued by the Central Government.

1.6.1.3 The TSP shall ensure timely completion of entire scope of Project in all respects and its operation and maintenance, as shall be specified in the RFP documents.

1.6.1.4 The TSP shall seek Transmission License from the Commission, as per the provisions of the Electricity Act and regulations made thereunder.

1.6.1.5 The TSP shall seek approval under Section 164 of Electricity Act, from CEA after acquisition of **(SPV UNDER INCORPORATION)**. The approval shall be granted by CEA generally within 30 days but in no case later than 45 days from the date of receipt of application (complete in all aspects).

1.6.2 **Scope of Bid Process Coordinator (BPC)**

BPC's scope of work is briefly outlined hereunder:

1.6.2.1 The BPC has initiated development of the Project and shall be responsible for the tasks in this regard as specified hereunder:

1. Provide to the Bidders a Survey Report for the Project at least forty five (45) days prior to the Bid Deadline. The Survey Report shall include the suggested route with approximate route length, type of terrain likely to be encountered and its likely implication in terms of Right of Way (ROW), statutory clearances, location of substations or converter stations and land area to be acquired for the substation or converter station.

2. To obtain approval for laying of overhead transmission lines under Section 68 of Electricity Act, from the Government at least twenty (20) days prior to Bid Deadline.

3. To initiate acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations, if required.

4. To initiate process of seeking forest clearance, if required.

5. The BPC shall intimate to the Bidders, the Acquisition Price payable by the Selected Bidder to the **PFC Consulting Limited** for the acquisition of one hundred percent (100%) of the equity shareholding of **(SPV UNDER INCORPORATION)**, along with all its related assets and liabilities at least twenty (20) days prior to the Bid Deadline.

6. The BPC shall ensure issuance of all finalized RFP Project Documents, at least fifteen (15) days prior to the Bid Deadline.

Provided that for any delay in meeting the above obligations of the BPC within the specified time period above, the Bid Deadline as per Clause 2.7.1 shall be extended on a day for day basis.

1.6.2.2 The details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project shall be handed over to the TSP on an as-is-where-is basis, so that it may take further actions to obtain Consents, Clearances and Permits.

1.7 All costs (including direct and indirect) incurred by the BPC/ project specific SPV in connection with the activities concerning the Project shall be recovered from the TSP, which shall be included in the Acquisition Price.

1.8 The Project is required to be completed progressively in accordance with the schedule prescribed in this RFP.

1.9 A company under the Companies Act, 1956/ Companies Act, 2013 by the name **(SPV UNDER INCORPORATION)** has been incorporated to initiate the activities for execution of the Project. The said company shall be acquired by the successful Bidder as per terms and conditions as may be prescribed in RFP.

1.10 The Ministry of Power and the appropriate state government(s) shall provide their support to the TSP, on best endeavor basis, in enabling the TSP to develop the Project.

1.11 All Bidders are required to submit their Bid in accordance with the instructions set forth in this RFP.

1.12 Once the Successful Bidder is selected, the details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project, shall be handed over to the Successful Bidder on as is where basis, so that it may take further actions to obtain all necessary Consents, Clearances and Permits and the TSP shall not be entitled for any extensions in the Scheduled COD of the Project except as provided for in the TSA.

1.13 The assets of the Project shall be made available on a commercial basis as per the terms and conditions of the Transmission Service Agreement and Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.

SECTION - 2

INFORMATION AND INSTRUCTIONS FOR BIDDERS

SECTION – 2

2. INFORMATION AND INSTRUCTIONS FOR BIDDERS

2.1 Qualification Requirements

2.1.1 The Bidder should be a company duly incorporated under the relevant laws (Bidding Company) or a Consortium of companies (Bidding Consortium) with one of the companies acting as the Lead Member of the Bidding Consortium. The Bidder shall be selected on meeting the Qualification Requirements specified in Section 2 of this RFP, as demonstrated by the Bidder's Technical Bid and the lowest Quoted Transmission Charges discovered from Final Offers quoted during the e-reverse bidding. A Bidding Consortium can participate in the bidding process for the Project if any Member of the Consortium has purchased the RFP document for such Project. Bidder who agrees and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) Orders No. P45021/2/2017-PP (BE-II)-Part (4) Vol.II dated 19.07.2024, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard, shall be eligible hereunder. Further, it is clarified that Procuring Entity as defined in orders shall deemed to have included Selected Bidder and/ or TSP.

Besides, Department of Expenditure, Ministry of Finance vide OM No. F.7/10/2021-PPD (1) dated 23.02.2023, as amended from time to time, have issued directions regarding public procurement from a bidder of a country, which shares land border with India are also applicable.

2.1.2 **Technical requirement to be met by the Bidding Company or Lead Member of Bidding Consortium**

The Bidder must fulfill any one of the following technical requirements:

(i) Experience of development of projects in the Infrastructure Sector in the last five (5) years with aggregate capital expenditure of not less than **Rs.2,170 Crore (Rupees Two Thousand One Hundred Seventy Crore Only)** or equivalent USD (calculated as per provisions in Clause 3.4.1). However, the capital expenditure of each project shall not be less than **Rs.434 Crore (Rupees Four Hundred Thirty Four Crore Only)** or equivalent USD (calculated as per provisions in Clause 3.4.1).

For this purpose, capital expenditure incurred on projects that have been commissioned/ completed at least seven (7) days prior to Bid Deadline shall be considered. The capital expenditure discussed above shall be as capitalized and reflected in the audited books of accounts of the Technically Evaluated Entity. In case a clearly identifiable part of a project has been put into commercial operation, the capital expenditure on such part of the project shall be considered. The Technically Evaluated Entity must have either executed such projects itself or must have held directly or indirectly at least twenty six percent (26%) of the shareholding in the company that has executed the project(s) from the date of financial closure of the project(s) till the time of commissioning/completion of such project(s).

OR

(ii) Experience in construction of project in infrastructure sector: The Technically Evaluated Entity should have received aggregate payments not less than **Rs.2,170 Crore (Rupees Two Thousand One Hundred Seventy Crore Only)** or equivalent USD (calculated as per

provisions in Clause 3.4.1) from its client(s) for construction works fully completed during the last 5 (five) financial years. However, the payment received from each project shall not be less than **Rs.434 Crore (Rupees Four Hundred Thirty Four Crore Only)** or equivalent USD (calculated as per provisions in Clause 3.4.1).

For this purpose, payments received on projects that have been commissioned/ completed at least seven (7) days prior to Bid Deadline shall be considered. Further only the payments (gross) actually received, during such 5 (five) financial years shall qualify for purposes of computing the technical capacity. For the avoidance of doubt, construction works shall not include cost of land, supply of goods or equipment except when such goods or equipment form part of a turn-key construction contract/ EPC contract for the project. Further, in cases where different individual contracts are signed between same entities for the same project, the cumulative payments received under such individual contracts shall be considered for meeting the qualification requirement.

The Technically Evaluated Entity may be the Bidding Company or the Lead Member of a Consortium or an Affiliate or Parent of such Bidding Company or the Lead Member, as the case may be.

Bidders shall furnish documentary evidence duly certified by authorized signatory of the Bidder who has been issued Power of Attorney in support of their technical capability as defined in Clause 2.1.2 of this RFP.

2.1.3 **Financial requirement to be met by the Bidding Company/Bidding Consortium**

2.1.3.1 The Bidder must fulfill following financial requirements:

A. Networth:

Networth should be not less than **Rs.868 Crore (Rupees Eight Hundred Sixty Eight Crore Only)** or equivalent USD (calculated as per provisions in Clause 3.4.1) computed as the Networth based on unconsolidated audited annual accounts (refer to Note below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years should not be negative.

Note: Audited consolidated annual accounts of the Bidder may be used for the purpose of financial criteria provided the Bidder has at least 26% equity in each company whose accounts are merged in the audited consolidated accounts and provided further that the financial capability of such companies (of which accounts are being merged in the consolidated accounts) shall not be considered again for the purpose of evaluation of the Technical Bid. Bidders shall furnish prescribed Annexure 7(A) duly certified by authorized signatory of the Bidder who has been issued Power of Attorney and the Statutory Auditor and separate computation sheet for Networth duly certified by Statutory Auditor in support of their financial capability as defined in Clause 2.1.3 of this RFP.

2.1.3.2 The Net worth shall be computed in the following manner by the Bidder:

A. Networth

=	Equity share capital
Add:	Reserves
Subtract:	Revaluation Reserves
Subtract:	Intangible Assets
Subtract:	Miscellaneous expenditures to the extent not written off

and carry forward losses

2.1.3.3 If the Technical Bid is submitted by a Bidding Consortium the financial requirement shall be met individually and collectively by all the Members in the Bidding Consortium. The financial requirement to be met by each Member of the Bidding Consortium shall be computed in proportion to the equity commitment made by each of them for investment in the Project.

2.1.4 The Bidder may seek qualification on the basis of technical and financial capability of its Parent and/ or its Affiliate(s) for the purpose of meeting the Qualification Requirements. However, in the case of the Bidder being a Consortium, the Lead Member has to meet the technical requirement on its own or by seeking the technical capability of its Parent and/or its Affiliate(s). Authorization for use of such technical or financial capability shall have to be provided from its Parent and/or Affiliate(s) as per **Annexure 9.** The technical and financial capability of a particular company/ particular project, including its Parents and/or Affiliates, shall not be used directly or indirectly by more than one Bidder/ Member of a Bidding Consortium/ Bidding Company. However, development and construction experience of a particular project may be used by more than one company.

The determination of the relationship of Parent or Affiliate with the Bidding Company or with the Member of the Bidding Consortium, including the Lead Member, shall be on the date at the most seven (7) days prior to the last date of submission of the Bid. Documentary evidence to establish such relationship shall be furnished by the Bidder along with the Technical Bid.

If the Technically Evaluated Entity and/or Financially Evaluated Entity is an entity other than the Bidding Company or a Member in a Bidding Consortium, the Bidding Company or Member relying on such Technically Evaluated Entity and/or Financially Evaluated Entity will have to submit a legally binding undertaking supported by a board resolution from the Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, that all the equity investment obligations of the Bidding Company or the Member of the Consortium shall be deemed to be equity investment obligations of the Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, and in the event of any default the same shall be met by such evaluated entity or by or the Ultimate Parent Company. The Bidding Company or the Consortium Member shall have to provide information and documents relating to its relationship with such Technically Evaluated Entity and/or Financially Evaluated Entity including details about the equity shareholding between them as per Annexure 7(C).

2.1.5 A Bidder shall submit only one Bid in the same bidding process, either individually as Bidding Company or as a Member of a Bidding Consortium (including the Lead Member). It is further clarified that any of the Parent/ Affiliate/Ultimate Parent of the Bidder/ Member in a Bidding Consortium shall not separately participate directly or indirectly in the same bidding process. Further, if any Bidder is having a Conflict of Interest with other Bidders participating in the same bidding process, the Bids of all such Bidders shall be rejected.

2.1.6 Notwithstanding anything stated above, BPC reserves the right to verify the authenticity of the documents submitted for meeting the Qualification Requirements and request for any additional information and documents. BPC reserves the right at its sole discretion to contact the Bidder's bank and project references and verify the Bidder's information and documents for the purpose of bid evaluation.

2.1.7 The Qualified Bidder(s) will be required to continue to maintain compliance with the Qualification Requirements throughout the bidding process and till execution of the Transmission Service Agreement. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case

may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the execution of the Transmission Service Agreement. Failure to comply with the aforesaid provisions shall make the Bid liable for rejection at any stage.

2.1.8 The Selected Bidder will be required to continue to maintain compliance with the Qualification Requirements till the COD of the Project. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the COD of the Project. Failure to comply with the aforesaid provisions shall be dealt as per provisions of Transmission Service Agreement.

2.1.9 On the Bid Deadline, for the Bidder to be eligible to participate in the bidding process:

a. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate, their directors or key personnel should not have been barred or included in the blacklist by any government agency or authority in India, the government of the jurisdiction of the Bidder or Members where they are incorporated or the jurisdiction of their principal place of business, any international financial institution such as the World Bank Group, Asian Development Bank, African Development Bank, Inter-American Development Bank, Asian Infrastructure Investment Bank etc. or the United Nations or any of its agencies; or

b. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate or their directors should not have been convicted of any offence in India or abroad.

In case any investigation is pending against the Bidder, including any Consortium Member or Affiliate, or CEO or any of the directors/ manager/key managerial personnel of the Bidder /Consortium /Member or their Affiliates, full details of such investigation including the name of the investigating agency, the charge/offence for which the investigation has been launched, name and designation of persons against whom the investigation has been launched and other relevant information should be disclosed while submitting the Bid.

The Bidders shall confirm the above though a notarized affidavit as per Annexure 22.

2.2 Submission of Bid by the Bidder

2.2.1 The information and documents in Technical Bid will be submitted by the Bidder as per the formats specified in Section – 4 (Formats for RFP) of this document.

2.2.2 Strict adherence to the formats wherever specified, is required. Wherever, information has been sought in specified formats, the Bidder shall refrain from referring to brochures/ pamphlets. Non-adherence to formats and/ or submission of incomplete information may be a ground for declaring the Technical Bid as non-responsive. Each format has to be duly signed and stamped by the authorized signatory of Bidder.

2.2.3 The Technical Bid shall contain unconsolidated/consolidated audited annual accounts (consisting of unabridged Balance Sheet, Profit and Loss Account, profit appropriation account, Auditors Report, etc.), as the case may be, of Bidding Company or each Member in Consortium including Lead Member or the Financially Evaluated Entity for the last three (3) financial years immediately preceding the last date for submission of Bid for the purpose of calculation of Networth.

In case the annual accounts for the financial year immediately preceding the Bid Deadline is not audited, the Bidder shall give declaration in this regard duly certified by its statutory auditor. In

such a case, the Bidder shall provide the audited annual accounts for the three (3) financial years preceding the financial year as above for which the annual accounts have not been audited.

2.2.4 Bid submitted by a Bidding Consortium:

2.2.4.1 The Technical Bid shall contain a legally enforceable Consortium Agreement entered amongst the Members in the Bidding Consortium, designating one of the Members to be the Lead Member (as per Annexure 6). There shall be only one Lead Member which shall continue to hold twenty six percent (26%) equity in the TSP and cannot be changed upto one (1) year from the Commercial Operation Date (COD) of the Project. Each Member in Bidding Consortium shall duly sign the Consortium Agreement making it liable for raising the required funds for its respective equity investment commitment as specified in the Consortium Agreement. In absence of Consortium Agreement, the Technical Bid will not be considered for evaluation and will be rejected.

Provided that the Lead Member of the Bidding Consortium will be required to be liable to the extent of 100% of the total proposed commitment of equity investment of the Bidding Consortium i.e. for both its own equity contribution as well as the equity contribution of other Members.

Provided further that the Consortium Agreement shall not be amended without the explicit approval of the BPC.

The Lead Member of the Consortium will be the single point of contact for the purposes of the bid process before the date of signing of Share Purchase Agreement. Settlement of any dispute amongst the Consortium Members shall not be the responsibility of the BPC and/or the CTU and the BPC and/or the CTU shall not bear any liability whatsoever on this account.

2.2.4.2 The Lead Member should designate at the most two persons to represent the Consortium in its dealings with the BPC. The person(s) designated by the Lead Member should be authorized through a Power of Attorney (as per Annexure 3) to perform all tasks including, but not limited to providing information, responding to enquiries, signing of Technical Bid on behalf of the Consortium, etc. The Bidding Consortium shall provide board resolutions from their respective Boards for committing their respective portion of equity requirement for the Project. Additionally, the Lead member shall provide a Board resolution committing to make good any shortfall in the equity for the project, in case of any member not meeting its equity commitment.

2.2.4.3 The Technical Bid should also contain signed Letter of Consent (as per **Annexure 2**) from each Member in Consortium confirming that the entire Technical and Financial Bids has been reviewed and each element of the Technical and Financial Bids is agreed to by them including investment commitment for the Project.

In addition, the Technical Bid should also contain Board Resolution from each Member of the Consortium other than the Lead Member in favour of their respective authorized representatives for executing the POA, Consortium Agreement and signing of the requisite formats.

2.2.5 Bid submitted by a Bidding Company

2.2.5.1 The Bidding Company should designate at the most two persons to represent the Bidding Company in its dealings with BPC. The person(s) should be authorized to perform all tasks including, but not limited to providing information, responding to enquiries, signing of Technical and Financial Bids etc. The Bidding Company should submit, along with Technical Bid, a Power of Attorney (as per Annexure 3), authorizing the signatory of the Technical and Financial Bids. The

Bidding Company shall submit the board resolution committing 100% of equity requirement for the Project, in the Technical Bid.

2.3 Clarifications & Pre-Bid Meeting

2.3.1 The Bidders may seek clarifications or suggest amendments to the RFP by sending an email to the BPC at the email id indicated in Clause 2.14 within the date and time mentioned in Clause 2.7.2. For any such clarifications or amendments, the Bidders should adhere to the format as per **Annexure – 19**.

2.3.2 Only those Bidders or their authorized representatives, who have purchased the RFP documents, are invited to attend the pre-bid meeting(s), which will take place on date as specified in Clause 2.7.2, or any such other date as notified by the BPC. The time and address of this would be intimated later.

2.3.3 The purpose of the pre-bid meeting will be to clarify any issues regarding the RFP, including in particular, issues raised in writing by the Bidders as per the provisions of Clause 2.3.1.

2.3.4 Non-attendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.

2.3.5 The BPC is not under any obligation to entertain / respond to suggestions made or to incorporate modifications sought for.

2.3.6 In case Bidders need any further clarifications not involving any amendments in respect of final RFP, they should ensure that request for such clarification is submitted through e-mail to the BPC at least ten (10) days prior to the Bid Deadline as mentioned in Clause 2.7.1. The BPC may issue clarifications only, as per its sole discretion, which is considered reasonable by it. Any such clarification issued shall be sent to all the Bidders to whom the RFP has been issued. Clarifications sought after this date shall not be considered in any manner and shall be deemed not to have been received. There shall be no extension in Bid Deadline on account of clarifications sought as per this clause 2.3.6.

2.4 Amendment of RFP

2.4.1 At any time before the timeline mentioned in Clause 2.7.1, the BPC may, for any reason, whether at its own initiative or in response to clarifications requested by any Bidder modify or amend the RFP, including the timelines specified in Clause 2.7.2 by issuance of addendum/modification/errata and/or revised document. Such document shall be notified in writing through a letter or fax or e-mail to all the entities to whom the RFP has been issued and shall be binding on them. In order to ensure that Bidders have reasonable time to take the modification into account in preparing their Bid, or for any other reasons, BPC may at its discretion, extend the due date for submission of Bid. Late receipt of any addendum/modification/errata and/or revised document will not relieve the Bidder from being bound by that modification.

2.4.2 All modifications shall become part of the terms and conditions of this RFP. No interpretation, revision or communication regarding this RFP is valid, unless made in writing.

2.4.3 The amendment to the RFP shall be notified to all the Bidders through the electronic bidding platform and shall be binding on them.

2.5 The Bidding Process

The entire bidding process shall be conducted on electronic bidding platform created by **MSTC Limited**. The Bid shall comprise of the Technical Bid and the Financial Bid. The Bidders shall submit the Technical Bid & Financial Bid through the electronic bidding platform. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. There shall be no physical submission of the Financial Bid.

Evaluation of Technical Bid will be carried out considering the information and documents furnished by the Bidders as required under this RFP. This step would involve responsiveness check, technical and financial evaluation of the details/ documents furnished by the Bidding Company / Bidding Consortium in support of meeting the Qualification Requirements. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clause 3.2 to 3.4 shall be declared as "Qualified Bidders" and eligible for opening of Initial Offer. The BPC shall also upload the list of all Qualified Bidders and Non-Qualified Bidders on the bidding portal along with the reasons for non-qualification. Also, the Financial Bids of Qualified Bidders shall be opened after at least 24 hours from the date of declaration of the Technically Qualified Bidders.

The Financial Bid will comprise of two rounds. In the first round the Initial Offer (submitted online along with the Technical Bids) of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending order for determination of the Qualified Bidders as provided in Section-III of RFP. The Qualified Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Qualified Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction stage and submit their Final Offer.

Provided however, in case only one Bidder remains after the evaluation of Technical Bid as per Clause 3.2, 3.3 and Clause 3.4, the Initial Offer of such Bidder shall not be opened and the matter shall be referred to the Government.

Provided that in the event the number of qualified Technical Bids is between two and four, then each of the qualified Bidder shall be considered as "Qualified Bidders".

Provided that in the event of identical Quoted Transmission Charges discovered from the Initial Offer having been submitted by one or more Bidders, all such Bidders shall be assigned the same rank for the purposes of determination of Qualified Bidders. In such cases, all the Qualified Bidders who share the same rank till 50% of the rank (with any fraction rounded off to higher integer) determined above, shall qualify to participate in the electronic e-reverse auction stage. In case 50% of the ranks (with any fraction rounded off to higher integer) is having less than 4 (four) Bidders and the rank of the fourth (4^{th}) Bidder is shared by more than one (1) Bidder, then all such Bidders who share the rank of the fourth (4^{th}) Bidder shall qualify to participate in the electronic reverse auction.

The applicable ceiling for electronic reverse bidding shall be the lowest Quoted Transmission Charges discovered from the Initial Offer received from the Qualified Bidders. The Qualified Bidders shall be permitted to place their Final Offer on the electronic bidding platform, which is lower than zero point two five (0.25) % of the prevailing lowest Quoted Transmission Charges.

The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by 30 minutes from the last received bid time, if the bid is received during the last 30 minutes of

the scheduled or extended bid time. Subsequently, it will be extended again by 30 minutes from the latest received bid time.

The technical details with respect to access to such electronic platform are provided **in Annexure-A** (Technical Details with respect to electronic reverse auction).

In case of any technical clarification regarding access to the electronic reverse auction platform or conduct of the auction process, the Bidders may contact MSTC directly at the address provided in **Annexure-A.**

2.5.1 Bid Formats

The Bids in response to this RFP will be submitted online through the electronic bidding platform by the Bidders in the manner provided in Clause 2.9. The Bids shall comprise of the following:

2.5.2 Technical Bid comprising of:

1. Covering Letter (as per prescribed format enclosed as **Annexure 1**);

2. Letter of Consent from Consortium Members in **Annexure 2;**

3. Power of attorney issued by the Bidding Company or the Lead Member of the Consortium, as the case may be, in favour of the person signing the Bid, in the format attached hereto as **Annexure 3**.

   Additionally, in case of a Bidding Consortium, the power of attorney in favour of the Lead Member issued by the other Members of the Consortium shall be provided in as per format attached hereto as **Annexure 4**. Further, the Lead Member shall furnish Board resolution(s) from each Member of the Consortium other than the Lead Member in favour of their respective authorized representatives for executing the POA and signing of the requisite formats.

   Provided that in the event the Bidding Company or the Lead Member of the Consortium or any Member of the Bidding Consortium, as the case may be, is a foreign entity, it may issue Board resolutions in place of power of attorney for the purpose of fulfilling these requirements.

4. Bidder's composition and ownership structure in **Annexure 5**

5. Format for Authorization submitted in Non-Judicial stamp paper duly notarized as per **Annexure 5** from the Bidding Company / each Member of the Consortium authorizing the BPC to seek reference from their respective bankers & others.

6. In case of Bidding Consortium, the Consortium Agreement shall be provided in as per format attached hereto as **Annexure 6**

7. Format of Qualification Requirement (**Annexures 7A, 7B, 7C and 7D)**

8. Bidders Undertakings and details of equity investment in Project (as per prescribed formats 1 and 2 of **Annexure 8**);

9. Authorization from Parent / Affiliate of Bidding Company / Member of Bidding Consortium whose technical / financial capability has been used by the Bidding Company / Member of Bidding Consortium **(Annexure 9)**.

10. Undertaking from the Technically / Financially Evaluated Entity(ies) **OR** Undertaking from the Ultimate Parent Company, for total equity investment commitment, in the prescribed format in **Annexure – 10**, to meet any shortfall in the equity investment by the Selected Bidder in the **(SPV UNDER INCORPORATION)**.

    Note: The effective Equity holding of the Selected Bidder in the **(SPV UNDER INCORPORATION)**, as specified in Clause 2.5.8.1 shall be computed as per the provisions of Clause 2.5.8.3 of this RFP.

    Provided further, in case the Bidding Company or Member of a Consortium, (as the case may be) holds at least twenty six percent (26%) equity in such Technically/ Financially Evaluated Entities, whose credentials have been considered for the purpose of meeting the Qualification Requirements as per the RFP, no such Undertaking shall be required from the Technically / Financially Evaluated Entities.

11. Board resolutions, as per prescribed formats enclosed as **Annexure – 11**, duly certified by the Company Secretary or any Whole-time Director / Manager (supported by a specific Board Resolution), as applicable to the Bidder and mentioned hereunder,

    (a) Board resolution from the Bidding Company (and any investing Affiliate / Parent Company / Ultimate Parent Company) committing one hundred percent (100%) in aggregate of the equity requirement for the Project - Format-1 of **Annexure 11**;

    (b) Board resolutions from each of the Consortium Member of the Bidding Consortium (and any investing Affiliate / Parent Company / Ultimate Parent Company) together committing to one hundred percent (100%) in aggregate of equity requirement for the Project, in case Bidder is a Bidding Consortium - Format-1 of **Annexure 11**;

    (c) In either of the cases as in (a) or (b) above as applicable, Board resolutions as per Format 2 of **Annexure 11** for total equity investment commitment from the Technically / Financially Evaluated Entity(ies) whose technical / financial credentials had been considered for the purpose of meeting Qualification Requirements as per the RFP

    OR

    Board resolutions as per Format 2 of **Annexure 11** from the Parent Company or the Ultimate Parent Company for total equity investment commitment.

    Provided that such Board resolutions, as specified in (a) or (b) or (c) above, in case of a foreign entity, shall be supported by an unqualified opinion issued by an independent legal counsel practicing in the relevant country, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.

    For clarity sake, illustrations identifying which Board Resolution shall be applicable in typical cases are provided in **Annexure 11A**.

12. Format for Illustration of Affiliates at the most seven (7) days prior to Bid Deadline, duly certified by Company Secretary and supported by documentary evidence **(Annexure 12)**.

Certified copy of the Register of Members / Demat Account Statement, Share Certificate, Annual Return filed with ROC etc. submitted as documentary evidence along with **Annexure 12.**

13. Disclosure as per **Annexure 13** regarding participation of any related companies in this bidding process.

14. Bid Bond, as per the prescribed format at **Annexure 14.**

15. Checklist for Technical Bid submission requirements as per **Annexure 16**.

16. Last three (3) financial years' unconsolidated / consolidated audited annual accounts / statements, as the case may be, of the Financially Evaluated Entity / Technical Evaluated Entity.

17. Unconsolidated audited annual accounts of both the TEE and the Bidding Company/Lead member, as applicable, for the financial years in which financial closure was achieved and the financial year in which the said project was completed / commissioned.

18. Copy of the Memorandum and Articles of Association and certificate of incorporation or other organizational document (as applicable), including their amendments, certified by the Company Secretary of Bidding Company or each Member in case of a Consortium including Lead Member.

19. For each project listed in Annexure 7(D), certified true copy of the certificates of final acceptance and / or certificates of good operating performance duly issued by owners or clients for the project, duly signed by authorized signatory.

In addition to the online submission of above formats through the electronic platform, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. In case, there is a discrepancy between the online submission and physical documents, the bid would be out rightly rejected and the bidder shall be construed to have engaged in the fraudulent practice as defined in Clause 2.19.3 with consequences as mentioned in Clause 2.19.2.

2.5.3 Financial Bid (as per prescribed format at Annexure-21)

Financial Bid shall comprise of: (i) the Initial Offer; and (ii) the Final Offer. The Initial Offer is required to be submitted along with the Technical Bid. It is hereby clarified that the Financial Bid will comprise of two rounds. In the first round the Initial Offer of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending order for determination of the Qualified Bidders as provided in Section-III of RFP.

In accordance with clause 2.5 of this RFP, the qualified Bidders shall be eligible to participate in the electronic reverse auction and submit their Final Offer.

The applicable ceiling for electronic reverse bidding shall be the lowest Quoted Transmission Charges discovered from the Initial Offer received from the Qualified Bidders. The Qualified Bidders shall be permitted to place their Final Offer on the electronic bidding platform, which is lower than zero point two five (0.25) % of the prevailing lowest Quoted Transmission Charges.

The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by 30 minutes from the last received bid time, if the bid is received during the last 30 minutes of

the scheduled or extended bid time. Subsequently, it will be extended again by 30 minutes from the latest received bid time.

The Bidders shall inter-alia take into account the following while preparing and submitting the Initial Offer and Final Offer of Financial Bid:-

a. The Bidders shall quote single annual Quoted Transmission Charges for a period of 35 years commencing from the Scheduled COD of the Project.

b. The Quoted Transmission Charges as per the format at Annexure-21 shall be inclusive of all charges and no exclusions shall be allowed. The Bidders shall take into account all costs including capital and operating, statutory taxes, duties, levies. Availability of the inputs necessary for operation and maintenance of the Project should be ensured by the TSP at the Project site and all costs involved in procuring the inputs (including statutory taxes, duties, levies thereof) at the Project site must be included in the Quoted Transmission Charges.

c. **Annexure 21** duly digitally signed by authorized signatory.

2.5.4 Wherever information has been sought in specified formats, the Bidders shall fill in the details as per the prescribed formats and shall refrain from referring to any other document for providing any information required in the prescribed format.

2.5.5 Transmission Charges

2.5.5.1 The Transmission Charges shall be specified in the Transmission Service Agreement and shall be payable to the TSP in Indian Rupees only. The Bidders shall quote single Transmission Charges as per the format at **Annexure – 21**.

2.5.5.2 The Transmission Charges of the Selected Bidder shall be inserted in Schedule 5 of the Transmission Service Agreement.

2.5.6 Bidders may note that:

a) All the information and documents in Bid shall be submitted in English language only.

b) Bidders shall mention the name, designation, telephone number, fax number, email address of the authorized signatory and complete address of the Bidder in the covering letter.

c) All pages of the Bid submitted shall be initialed and stamped by the authorized signatory on behalf of the Bidder.

d) A Bidder shall submit only one Bid in the same bidding process, either individually as Bidding Company or as a Member of a Bidding Consortium.

e) The technical and financial capability of a particular company / particular project (Parent and/ or Affiliate) shall not be used directly or indirectly by more than one Bidder/ Member of a Bidding Consortium including Lead Member / Bidding Company.

f) This Request for Proposal (RFP) document is not transferable. The RFP document and the information contained therein is for the use only by the Bidder to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors). In the event that the recipient does not continue with its involvement in the Project, this RFP document must be kept confidential.

g) Though adequate care has been taken while preparing this RFP document, the Bidder shall satisfy himself that the document is complete in all respects. Intimation of any discrepancy shall be given to the BPC immediately. If no intimation is received from any Bidder within ten (10) days from the date of issue of RFP document, it shall be considered that the RFP document is complete in all respects and has been received by the Bidder.

h) Bids submitted by the Bidder and opened on scheduled date and time as stipulated in this RFP shall become the property of the BPC and BPC shall have no obligation to return the same to the Bidder.

i) If any Bidder conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in its Bid, in any manner whatsoever, the BPC reserves the right to reject such Bid or cancel the Letter of Intent, if issued. If such event is discovered after the Effective Date, consequences specified in Transmission Service Agreement shall apply.

j) If for any reason the Bid of the Bidder with the lowest Quoted Transmission Charges is not selected or Letter of Intent issued to such Selected Bidder is cancelled or such Bidder withdraws its Bids, the BPC may :-

i. Invite all the remaining Bidders to revalidate or extend their respective Bid Security, as necessary, and match the Bid of the Bidder with the lowest Quoted Transmission Charges (the "second round of bidding") with following cases:

- If in the second round of bidding, only one Bidder matches the Bid of the Bidder with lowest Quoted Transmission Charges, it shall be the Selected Bidder.

- If two or more Bidders match the Bid of the Bidder with the lowest Quoted Transmission Charges in the second round of bidding, then the Bidder whose Quoted Transmission Charges was lower as compared to other Bidder(s) in the first round of bidding shall be the Selected Bidder. For example, if the third and fifth lowest Bidders in the first round of bidding offer to match the Bid of the Bidder with lowest Quoted Transmission Charges in the second round of bidding, the said third lowest Bidder shall be the Successful Bidder.

- In the event that no Bidder offers to match the Bid of the Bidder with the lowest Quoted Transmission Charges in the second round of bidding, the BPC may, in its discretion, invite fresh Bids (the "third round of bidding") from all Bidders except the Bidder which quoted the lowest Quoted Transmission Charges in the first round of bidding. In case the Bidders are invited for the third round of bidding to revalidate or extend their Bid Security, as necessary, and offer fresh Bids, they shall be eligible for submission of fresh Bids provided, however, that in such third round of bidding only such Bids shall be eligible for consideration which are lower than the Quoted Transmission Charges of the second lowest Bidder in the first round of bidding; or;

ii. Annul the bid process; or

iii. Take any such measure as may be deemed fit in the sole discretion of the BPC[1]

k) The BPC may, at its sole discretion, ask for additional information / document and/or seek clarifications from a Bidder after the Bid Deadline, inter alia, for the purposes of removal of inconsistencies or infirmities in its Bid. However, no change in the substance of the Quoted

[1] **BPC shall record reasons for the same.**

Transmission Charges shall be sought or permitted by the BPC.

l) Non submission and/or submission of incomplete data/ information required under the provisions of RFP shall not be construed as waiver on the part of BPC of the obligation of the Bidder to furnish the said data / information unless the waiver is in writing.

m) Bidders shall familiarize itself with the procedures and time frames required to obtain all Consents, Clearances and Permits.

n) All Bidders are required to ensure compliance with the standards and codes mentioned in Clause 1.6.1.2.

o) BPC reserves the right to reject all Bids and/or annul the process of tariff based competitive bidding for selection of Bidder as TSP to execute the Project without assigning any reason. BPC shall not bear any liability, whatsoever, in this regard.

p) Foreign companies submitting the Bid are required to follow the applicable law in their country for execution of POA, Consortium Agreement and affixation of Common Seal (wherever required) and in such cases, their Bid should be supported by an unqualified opinion issued by an independent legal counsel practicing in the relevant country, stating that execution of such POA, Consortium Agreement and the authorizations granted therein are true and valid. Foreign companies executing POA outside India shall necessarily pay the adequate stamp charges in India as per the provisions of Stamp Act.

2.5.7 Bidders to inform themselves fully

2.5.7.1. The Bidders shall make independent enquiry and satisfy themselves with respect to all the required information, inputs, conditions and circumstances and factors that may have any effect on his Bid. Once the Bidders have submitted their Bids, the Bidders shall be deemed to have inspected and examined the site conditions (including but not limited to its surroundings, its geological condition and the adequacy of transport facilities to the site), the laws and regulations in force in India, the transportation facilities available in India, the grid conditions, the adequacy and conditions of roads, bridges, railway sidings, ports, etc. for unloading and/or transporting heavy pieces of material and has based its design, equipment size and fixed its price taking into account all such relevant conditions and also the risks, contingencies and other circumstances which may influence or affect the transmission of power. Accordingly, each Bidder acknowledges that, on being selected as Successful Bidder and on acquisition of one hundred percent (100%) of the equity shares of the **(SPV UNDER INCORPORATION)**, the TSP shall not be relieved from any of its obligations under the RFP Project Documents nor shall the TSP be entitled to any extension in Scheduled COD mentioned in this RFP or financial compensation for any reason whatsoever.

2.5.7.2. In their own interest, the Bidders are requested to familiarize themselves with all relevant laws of India, including without limitation, the Electricity Act 2003, the Income Tax Act 1961, the Companies Act, 1956 / Companies Act, 2013 (as the case may be), Environment Protection Act 1986 and Forest (Conservation) Act, 1980, the Customs Act, the Foreign Exchange Management Act, Land Acquisition Act, 1894, the Indian Telegraph Act 1885, Labour & Employment Laws of India, [Insurance Act] the regulations/standards framed by the Commissions and CEA, all other related acts, laws, rules and regulations prevalent in India, as amended from time to time.

In addition to the above, the Bidders are required to familiarize themselves with all relevant technical codes and standards, including but not limited to the Grid Code / State Grid Code, Central Electricity Authority (Installation and Operations of Meters) Regulations, 2006, Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007,

Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium - Term Open Access in Inter-State Transmission and related matters) Regulations, 2009, Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulation, 2010, Central Electricity Authority (Technical Standards for Communication System in Power System Operation) Regulations, 2020, Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and other relevant Rules/ Regulations/ Guidelines issued by the Central Government, the CERC and the CEA and amendments thereof.

The BPC shall not entertain any request for clarifications from the Bidders regarding the above laws / acts / rules / regulations / standards. Non-awareness of the same shall not be a reason for the Bidder to request for extension in Bid Deadline. The Bidders undertake and agree that, before submission of their Bid, all such factors as generally brought out above, have been fully investigated and considered while submitting their Bids.

2.5.7.3. The Survey Report has been prepared in good faith, and on best endeavor basis. Neither BPC & Nodal Agency nor their employees or advisors/consultants make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions made in the Survey Report, or the accuracy, completeness or reliability of information contained therein, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of such Survey Report, even if any loss or damage is caused to the Bidders by any act or omission on their part.

2.5.7.4. Bidders shall make best efforts and carry out its own due diligence upon survey report provided by BPC and shall consider all possible techno-commercial factors before submission of Bid. Bidders may also visit the route of the Transmission Lines associated with the Project and the surrounding areas and obtain / verify all information which they deem fit and necessary for the preparation of their Bid. Bidders may also carry out required surveys and field investigation for submission of their Bid. Bidders may also opt for any other route and is not bound to follow the route suggested in survey report provided by BPC.

2.5.7.5. Failure to investigate, examine and to inspect site or subsurface conditions fully shall not be grounds for a Bidder to alter its Bid after the Bid Deadline nor shall it relieve a Bidder from any responsibility for appropriately eliminating the difficulty or costs of successfully completing the Project.

2.5.7.6. The Selected Bidder shall obtain all necessary Consents, Clearances and Permits as required. The Bidders shall familiarize itself with the procedures and time frame required to obtain such Consents, Clearances and Permits.

2.5.7.7. The technical requirements of integrated grid operation are specified in the Indian Electricity Grid Code (IEGC). The Bidders should particularly acquaint themselves with the requirements of connection conditions, operating code for regional grids, scheduling and dispatch instructions/codes, etc. The Bidders are also advised to fully familiarize themselves with the real time grid conditions in the country. Information regarding grid parameters such as voltage and frequency is available on the websites of Regional / State Load Dispatch Centres.

2.5.8 Minimum Equity holding/Equity Lock-in

2.5.8.1 (a) The aggregate equity share holding of the Selected Bidder, in the issued and paid up equity share capital of **(SPV UNDER INCORPORATION)** shall not be less than Fifty one percent (51%) up to a period of (1) one year after COD of the Project;

(b) In case the Selected Bidder is a Bidding Consortium, then any Member (other than the Lead Member) of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified in (a) above.

(c) If equity is held by the Affiliates, Parent Company or Ultimate Parent Company, then subject to the second proviso of this Clause 2.5.8.1 (c), such Affiliate, Parent Company or Ultimate Parent Company shall be permitted to transfer its shareholding in **(SPV UNDER INCORPORATION)** to another Affiliate or to the Parent Company / Ultimate Parent Company. If any such shareholding entity, qualifying as an Affiliate / Parent Company / Ultimate Parent Company, is likely to cease to meet the criteria to qualify as an Affiliate / Parent Company / Ultimate Parent Company, the shares held by such entity shall be transferred to another Affiliate / Parent Company / Ultimate Parent Company.

Provided that in case the Lead Member or Bidding Company is holding equity through Affiliate/s, Ultimate Parent Company or Parent Company, such restriction shall apply to such entities.

Provided further, that the aggregate equity share holding of the Bidding Consortium or a Bidding Company in the issued and paid up equity share capital of **(SPV UNDER INCORPORATION)** shall not be less than fifty one percent (51%) up to a period of one (1) year after COD of the Project and the lead Member of the Consortium shall have the equity share holding not less than twenty six percent (26%). In case the Selected Bidder is a Bidding Consortium, then any Member (other than the Lead Member) of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified in (a) above.

(d) All transfer(s) of shareholding of **(SPV UNDER INCORPORATION)** by any of the entities referred to above, shall be after prior written intimation to the Nodal Agency.

2.5.8.2 The Selected Bidder may invest in the equity share capital of **(SPV UNDER INCORPORATION)** through its Affiliate(s) or Ultimate Parent Company or Parent Company. Details of such investment will have to be specified in the Technical Bid as per Format 2 of Annexure 8 of the RFP. If the Selected Bidder so invests through any Affiliate(s) or Ultimate Parent Company or Parent Company, the Selected Bidder shall be liable to ensure that minimum equity holding/lock-in limits specified in Clause 2.5.8.1 and as computed as per the provisions of Clause 2.5.8.3 are still maintained.

2.5.8.3 For computation of effective Equity holding, the Equity holding of the Selected Bidder or its Ultimate Parent Company in such Affiliate(s) or Parent Company and the equity holding of such Affiliate (s) or Ultimate Parent Company in **(SPV UNDER INCORPORATION)** shall be computed in accordance with the example given below:

If the Parent Company or the Ultimate Parent Company of the Selected Bidder A directly holds thirty percent (30%) of the equity in **(SPV UNDER INCORPORATION)** then holding of Selected Bidder A in **(SPV UNDER INCORPORATION)** shall be thirty percent (30%);

If Selected Bidder A holds thirty percent (30%) equity of the Affiliate and the Affiliate holds fifty percent (50%) equity in **(SPV UNDER INCORPORATION)**, then for the purposes of ascertaining the minimum equity/equity lock-in requirements specified above, the effective holding of Bidder A in **(SPV UNDER INCORPORATION)** shall be fifteen percent (15%), (i.e., 30%* 50%);

2.5.8.4 The provisions as contained in this Clause 2.5.8 and Article 19.1 of the Transmission Service Agreement shall override the terms of the Consortium Agreement submitted by the Bidder as part of the RFP.

2.6 Project Schedule

2.6.1. All Elements of the Project are required to be commissioned progressively as per the schedule given in the following table;

Sl. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs	24 months	8.57	Kurnool-IV Phase-I Tr. System and Element at Sl. No. 2 & 3
2.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 1 & 3
3.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 1 & 2
4.	Augmentation of Kurnool-IV PS by 765/400kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs	30 months	91.43	Kurnool-IV Phase-I Tr. System and Element at Sl. No. 5-10
5.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4 & 6-10
6.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4,5 & 7-10
7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4,5,6 & 8-10

Sl. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
8.	LILO of Kurnool-IV – Bidar 765kV D/c line at Shadnagar (about 50 kms)			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4-7, 9 & 10
9.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/c line (about 50 kms) {TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame}			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4-8 & 10
10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c line (about 60 kms)			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4-9

The payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after successful commissioning of the Element(s) which are pre-required for declaring the commercial operation of such Element as mentioned in the above table.

2.7 Due dates

2.7.1 The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e. on or before **15:00 hours (IST) on May 06, 2025**. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI.

2.7.2 Important timelines are mentioned below:

Date	Event
05-05-2025	Issuance of RFP
26-05-2025	Submission of written clarifications/amendments, if any, on the RFP / RFP Project Documents by Bidders so as to reach BPC by 1700 hours. Such written clarifications/amendments shall be in the format provided in Annexure-20.
02-06-2025	Pre-Bid meeting(s)
13-06-2025	Issue of written clarifications and revised RFP documents
23-06-2025	Issue of final RFP Project Documents
08-07-2025	Submission of Bid (Online submission of Bid through electronic bidding

Date	Event
	portal)
08-07-2025	Opening of Technical Bid
16-07-2025	Shortlisting and announcement of Qualified Bidders on bidding portal
17-07-2025	Opening of Financial Bid - Initial Offer
18-07-2025	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.
21-07-2025	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer
28-07-2025	Selection of Successful Bidder and issue of LOI
07-08-2025	Signing of RFP Project Documents and transfer of (SPV UNDER INCORPORATION)

To enable BPC to meet the schedule, all Bidders are expected to respond expeditiously during the bidding process. If any milestone/activity falls on a day which is not a working day or which is a public holiday then the milestone/activity shall be achieved/ completed on the next working day.

2.8 Validity of the Bid

2.8.1 The Bid shall remain valid for a period of one hundred and eighty (180) days from the Bid Deadline. The BPC reserves the right to reject any Bid which does not meet aforementioned validity requirement.

2.8.2 The BPC may solicit the Bidders' consent for an extension of the period of validity of the Bid. The request and the response, thereafter, shall be in writing. In the event any Bidder refuses to extend its Bid validity as requested by the BPC, the BPC shall not be entitled to invoke the Bid Bond. A Bidder accepting the BPC's request for validity extension shall not be permitted to modify its Bid and such Bidder shall, accordingly, extend the validity of the Bid Bond as requested by the BPC within seven (7) days of such request, failing which the Bid shall not be considered as valid.

2.9 Method of Submission

2.9.1 Both the Technical and Financial Bids duly filled in, all formats and supporting shall be scanned and uploaded online through electronic bidding platform in the manner specified in **Annexure A.**

2.9.2 It may be noted that Technical Bid shall not contain any information/document relating to Financial Bid. If Technical Bid contains any such information/documents, the BPC shall not be responsible for premature opening of the Financial Bid.

All pages of the Bid, except for the Bid Bond (**Annexure 14**) and any other document executed on non-judicial stamp paper, forming part of the Bid and corrections in the Bid, if any, must be signed by the authorized signatory on behalf of the Bidder. It is clarified that the same authorized signatory shall sign all pages of the Bid. However, any published document submitted in this regard shall be signed by the authorized signatory at least on the first and last page of such document.

2.9.3 No change or supplemental information to a Bid already submitted will be accepted after the Bid Deadline, unless the same is requested for by the BPC as per Clause 2.5.6 (k).

Provided that a Bidder shall always have the right to withdraw / modify its Bid before the Bid Deadline. No Technical Bid or Initial Offer shall be modified, substituted or withdrawn by the Bidder on or after the Bid Deadline.

2.10 Preparation cost

2.10.1 The Bidders shall be responsible for all the costs associated with the preparation of the Bid and participation in discussions and attending pre-bid meetings, and finalization and execution of the RFP Project Documents (other than the TSA), etc. BPC shall not be responsible in any way for such costs, regardless of the conduct or outcome of the process of tariff based competitive bidding for selection of Bidder as TSP as per Bidding Guidelines.

2.10.2 The cost of this RFP is **Rupees Five Lakh (Rs.5,00,000/-) or U.S. Dollar Seven Thousand Only (US$7,000 /-) plus GST** as per applicable rate, which shall be non-refundable. This amount shall be paid via electronic transfer to the following Bank Account:

Bank Account Name	**: PFC Consulting Limited**
Account No.	**: 000705036117**
Bank Name	**: ICICI Bank**
IFSC	**: ICIC0000007**
Branch	**: Connaught Place, New Delhi-110001**

Immediately after issuance of RFP document, the Bidder shall submit the Pre-Award Integrity Pact in the format as prescribed in **Annexure B**, which shall be applicable for and during the bidding process, duly signed on each page by any whole-time Director / Authorized Signatory, duly witnessed by two persons, and shall be submitted by the Bidder in two (2) originals in a separate envelope, duly superscripted with Pre-Award Integrity Pact. The Bidder shall submit the Pre-Award Integrity Pact on non-judicial stamp paper of Rs. 100/- each duly purchased from the National Capital Territory of Delhi. In case the Bidder is in a consortium, the Pre-Award Integrity Pact shall be signed and submitted by each member of the Consortium separately.

2.11 Bid Bond

2.11.1. Each Bidder shall submit the Bid accompanied by Bid Bond issued by any of the Banks listed in Annexure-17. The Bid Bond shall be valid for a period of thirty (30) days beyond the validity of the Bid.

2.11.2. Subject to the provisions of Clause 2.15.5, the Bid Bond may be invoked by the BPC or its authorized representative, without any notice, demure, or any other legal process upon occurrence of any of the following:

- Bidder withdraws during the period of Bid Validity as specified in this RFP or as extended by mutual consent of the respective Bidder(s) and the BPC
- Failure to execute the Share Purchase Agreement as per the provisions of Clause 2.15.2; or
- Failure to furnish the Contract Performance Guarantee as per Clause 2.12; or

- Failure to acquire one hundred percent (100%) equity shares of **(SPV UNDER INCORPORATION)**, along with all its related assets and liabilities, in accordance with the provisions of Clause 2.15.2; or

- Failure to comply with the provisions of Clause 2.15.5 and Clause 2.15.6, leading to annulment of the award of the Project.

- Bidders submitting any wrong information or making any misrepresentation in their Bid as mentioned in Clause 2.5.6.

Intimation of the reasons of the invocation of the Bid Bond shall be given to the Selected Bidder by the BPC within three (3) working days after such invocation.

2.11.3. The Bid Bond of the Selected Bidder shall be returned on submission of the Contract Performance Guarantee as per Clause 2.12 and the relevant provisions of the Transmission Service Agreement.

2.11.4. The Bid Bond of all the Bidders, whose Bids are declared non-responsive, shall be returned within a period of thirty (30) days after the date on which the Financial Bids are opened.

2.11.5. The Bid Bond of all unsuccessful Bidders shall be returned and released by the BPC on the same day on which the **(SPV UNDER INCORPORATION)** is transferred to the Selected Bidder. The Bid Bond of the Successful Bidder shall be returned on submission of Contract Performance Guarantee as per Clause 2.12 of this RFP and the provisions of the Transmission Service Agreement.

2.12 Contract Performance Guarantee

Within ten (10) days from the date of issue of the Letter of Intent, the Selected Bidder, on behalf of the TSP, will provide to the Nodal Agency the Contract Performance Guarantee for an amount of **Rs.108.50 Crore (Rupees One Hundred Eight Crore Fifty Lakhs Only)**. The Contract Performance Guarantee shall be initially valid for a period up to three (3) months after the Scheduled COD of the Project and shall be extended from time to time to be valid for a period up to three (3) months after the COD of the Project and thereafter shall be dealt with in accordance with the provisions of the Transmission Service Agreement. The Contract Performance Guarantee shall be issued by any of the banks listed in Annexure-17.

In case the Selected Bidder is unable to obtain the Contract Performance Guarantee for the total amount from any one bank specified in **Annexure-17**, the Selected Bidder may obtain the same from not more than three (3) banks specified in Annexure-17.

2.13 Opening of Bids

Technical Bid will be opened by the Bid Opening Committee as per the following time schedule and in the office of Central Electricity Authority, in the online presence of Bidders' representatives who wish to attend:

Opening of Envelope (Technical Bid): **15:30 hours (IST) on July 08, 2025** or such other dates as may be intimated by BPC to the Bidders.

In the event of any of above dates falling on a day which is not a working day or which is a public holiday, then the bids shall be opened on the next working day at the same venue and time.

Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at **15:00 hours (IST) on July 17, 2025** in the office of CEA.

The following information from each Bid will be read out to all the Bidders at the time of opening of Technical Bid:

- Name of the Bidding Company / Consortium Members in case of Bidding Consortium.

Information to be provided after opening of Initial Offer:

Only the lowest Initial Offer (s) shall be communicated to all the Qualified Bidders to participate in the e-reverse bidding process. During the e-reverse bidding process only the lowest prevailing bid should be visible to all the bidders on the electronic platform.

2.14 Enquiries

Written clarifications on the RFP and other RFP Project Documents as per Clause 2.3 and 2.4 may be sought from:

General Manager
PFC Consulting Limited
9th Floor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001
Tel. + 91 11 23443996
Fax + 91 11 23443990
Email: pfccl.itp@pfcindia.com

2.15 Other Aspects

2.15.1 The draft of the Transmission Service Agreement has been attached to this RFP. In addition to above, the following documents have also been attached to this RFP:

a) Share Purchase Agreement

When the drafts of the above RFP Project Documents are provided by the BPC, these RFP Project Documents shall form part of this RFP as per **Formats – 1 & 2** of **Annexure 20**.

Upon finalization of the RFP Project Documents after incorporating the amendments envisaged in Clause 2.4 of this RFP, all the finalized RFP Project Documents shall be provided by BPC to the Bidders at least fifteen (15) days prior to the Bid Deadline.

The Transmission Service Agreement and Share Purchase Agreement shall be signed in required number of originals so as to ensure that one (1) original is retained by each party to the Agreement(s) on the date of transfer of SPV.

Note: Kindly check 2.15.2. (b) point from SBDs

2.15.2 Within ten (10) days of the issue of the Letter of Intent, the Selected Bidder shall:

a) Provide the Contract Performance Guarantee in favour of the Nodal Agency as per the provisions of Clause 2.12;

b) Execute the Share Purchase Agreement and the Transmission Service Agreement;

c) acquire, for the Acquisition Price, one hundred percent (100%) equity shareholding of **(SPV UNDER INCORPORATION)** from PFC Consulting Limited, who shall sell to the Selected Bidder, the equity shareholding of **(SPV UNDER INCORPORATION)**, along with all its related assets and liabilities;

Stamp duties payable on purchase of one hundred percent (100%) of the equity shareholding of **(SPV UNDER INCORPORATION)**, along with all its related assets and liabilities, shall also be borne by the Selected Bidder.

Provided further that, if for any reason attributable to the BPC, the above activities are not completed by the Selected Bidder within the above period of ten (10) days as mentioned in this Clause, such period of ten (10) days shall be extended, on a day for day basis till the end of the Bid validity period.

2.15.3 After the date of acquisition of the equity shareholding of **(SPV UNDER INCORPORATION)**, along with all its related assets and liabilities, by the Selected Bidder,

i. the authority of the BPC in respect of this Bid Process shall forthwith cease and any actions to be taken thereafter will be undertaken by the Nodal Agency,

ii. all rights and obligations of **(SPV UNDER INCORPORATION)**, shall be of the TSP,

iii. any decisions taken by the BPC prior to the Effective Date shall continue to be binding on the Nodal Agency and

iv. contractual obligations undertaken by the BPC shall continue to be fulfilled by the TSP.

v. Further, the TSP shall execute the Agreement(s) required, if any, under Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.

2.15.4 Within five (5) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to the Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003.

2.15.5 If the Selected Bidder / TSP fails or refuses to comply with any of its obligations under Clauses 2.15.2, 2.15.3 and 2.15.4, and provided that the other parties are willing to execute the Share Purchase Agreement and PFC Consulting Limited is willing to sell the entire equity shareholding of **(SPV UNDER INCORPORATION)**, along with all its related assets and liabilities, to the Selected Bidder, such failure or refusal on the part of the Selected Bidder shall constitute sufficient grounds for cancellation of the Letter of Intent. In such cases, the BPC / its authorized representative(s) shall be entitled to invoke the Bid Bond of the Selected Bidder.

2.15.6 If the TSP fails to obtain the Transmission License from the Commission, it will constitute sufficient grounds for annulment of award of the Project.

2.15.7 The annulment of award, as provided in Clauses 2.15.5 and 2.15.6 of this RFP, will be done by the Government on the recommendations of National Committee on Transmission. However, before recommending so, National Committee on Transmission will give an opportunity to the Selected Bidder / TSP to present their view point.

2.15.8 The annulment of the award, under Clause 2.15.5 or 2.15.6 of this RFP, shall be sufficient grounds for blacklisting the bidder, whose award has been annulled, for a period of five years or more, as

decided by the National Committee on Transmission, provided that the blacklisting shall be done only after giving the bidder an opportunity for showing cause.

2.16 Confidentiality

2.16.1 The parties undertake to hold in confidence this RFP and RFP Project Documents and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

a) to their professional advisors;

b) to their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities;

c) disclosures required under Law, without the prior written consent of the other parties of the concerned agreements.

Provided that the TSP agrees and acknowledges that the Nodal Agency may at any time, disclose the terms and conditions of the RFP and RFP Project Documents to any person, to the extent stipulated under the Law or the Bidding Guidelines.

2.17 Right of the BPC to reject any Bid

BPC reserves the right to reject all or any of the Bids/ or cancel the RFP without assigning any reasons whatsoever and without any liability.

2.18 Non submission and/or submission of incomplete data/ information required under the provisions of RFP shall not be construed as waiver on the part of BPC of the obligation of the Bidder to furnish the said data / information unless the waiver is in writing.

2.19 Fraudulent and Corrupt Practices

2.19.1. The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bid process and subsequent to the issue of the LoI Notwithstanding anything to the contrary contained herein, or in the LoI, the BPC shall reject a Bid, withdraw the LoI, as the case may be, without being liable in any manner whatsoever to the Bidder, if it determines that the Bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bid process. In such an event, the BPC shall forfeit the Bid Bond, without prejudice to any other right or remedy that may be available to the BPC hereunder or otherwise.

2.19.2. Without prejudice to the rights of the BPC under Clause 2.19.1 hereinabove and the rights and remedies which the BPC may have under the LoI, if a Bidder is found by the BPC to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bid process, or after the issue of the LoI, such Bidder & its Affiliates shall not be eligible to participate in any tender or RFP issued by any BPC for an indefinite period from the date such Bidder is found by the BPC to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.

2.19.3. For the purposes of this Clause 2.19, the following terms shall have the meaning hereinafter

respectively assigned to them:

a) **"corrupt practice"** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bid process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the BPC who is or has been associated or dealt in any manner, directly or indirectly with the Bid process or the LoI or has dealt with matters concerning the Transmission Service Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the BPC, shall be deemed to constitute influencing the actions of a person connected with the Bid Process); or (ii) engaging in any manner whatsoever, whether during the Bid Process or after the issue of the LoI or after the execution of the Transmission Service Agreement, as the case may be, any person in respect of any matter relating to the Project or the LoI or the Transmission Service Agreement, who at any time has been or is a legal, financial or technical adviser of the BPC in relation to any matter concerning the Project;

b) **"Fraudulent practice"** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bid process;

c) **"Coercive practice"** means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bid process;

d) **"undesirable practice"** means (i) establishing contact with any person connected with or employed or engaged by the BPC with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bid process; or (ii) having a Conflict of Interest; and

e) **"Restrictive practice"** means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bid process.

SECTION - 3

EVALUATION OF THE TECHNICAL AND FINANCIAL BID

SECTION 3

3. EVALUATION OF BID

3.1. The evaluation process of Technical Bid comprises the following five steps:

Step I – Responsiveness check
Step II- Compliance with submission requirements
Step III– Evaluation of Technical Bids
Step IV– Evaluation of Financial Bids
Step V – Bidder Selection

3.2. STEP I – Responsiveness check

The Technical Bid submitted by the Bidder shall be initially scrutinized to establish "Responsiveness". Subject to clause 2.5.6 (k), any of the following conditions shall cause the Technical Bid to be "Non-responsive":

a) Technical Bid that are incomplete.

b) Technical Bid not signed by authorized signatory and / or stamped in the manner indicated in this RFP.

c) All pages of the Technical Bid submitted but not initialed by the authorized signatories on behalf of the Bidder.

d) Technical Bid not including the covering letter as per **Annexure 1**.

e) Technical Bid submitted by a Bidding Consortium not including the Consortium Agreement.

f) Technical Bid contains material inconsistencies in the information and documents submitted by the Bidder, affecting the Qualification Requirements.

g) Bidder submitting or participating in more than one Bid either as a Bidding Company or as a Member of Bidding Consortium.

h) More than one Member of the Bidding Consortium or a Bidding Company using the credentials of the same Parent/Affiliate.

i) Information not submitted in formats specified in the RFP.

j) Applicable Board resolutions, or any other document, as provided in Clause 2.5.2, not being submitted;

k) Bid not accompanied by a valid Bid Bond;

l) Non submission of power of attorney, supported by a Board resolution;

m) Bid validity being less than that required as per Clause 2.8 of this RFP;

n) Bid not containing Format-1 (Bidders' Undertakings) of **Annexure-8;**

o) Bidder having Conflict of Interest

p) The Bidder has not submitted a disclosure as per Annexure 13.

q) Bidders delaying in submission of additional information or clarifications sought by the BPC.

r) If the Bidder makes any misrepresentation as specified in Clause 3.7.

s) Bid being conditional in nature.

3.3. STEP II - Compliance with submission requirements

Each Bidder's Technical Bid shall be checked for compliance with the submission requirements set forth in this RFP before the evaluation of Technical Bid is taken up. **Annexure 16** and **Annexure 11A** shall be used to check whether each Bidder meets the stipulated requirements.

3.4. STEP III -Evaluation of Technical Bid

Evaluation of Technical Bid will be carried out considering the information and documents furnished by the Bidders as required under this RFP. This step would involve technical and financial evaluation of the details/ documents furnished by the Bidding Company / Bidding Consortium in support of meeting the Qualification Requirements.

3.4.1. Interpolation of financial data.

For the Qualification Requirements data provided by the Bidders in foreign currency, equivalent rupees of Networth will be calculated using bills selling exchange rates (card rate) USD/INR of State Bank of India prevailing on the date of closing of the accounts for the respective financial year as certified by their Banker.

For the purpose of calculating the aggregate capital expenditure/construction experience of the projects completed/ commissioned where such projects are executed outside India and capital expenditure is denominated in foreign currency, bills selling exchange rates (card rate) USD/INR of State Bank of India prevailing on the date of closing of the financial year in which the projects were completed and as certified by their Banker shall be considered.

For the projects executed in the current financial year bills selling (card rate) USD/INR of State Bank of India prevailing on seven (7) days prior to the last date of submission of Technical Bid and as certified by their Banker shall be considered.

For currency other than USD, Bidders shall convert such currency into USD as per the exchange rates certified by their Banker prevailing on the relevant date and used for such conversion. Such Bidders shall submit necessary certification from their Banker for the exchange rate used in the conversation.

If the exchange rate for any of the above dates is not available, the rate for the immediately available previous day shall be taken into account.

3.4.2. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clauses 3.2 to 3.4 shall be declared as Qualified Bidders and eligible for opening of Initial Offer.

3.4.3. The BPC shall upload the list of all Qualified Bidders and Non-Qualified Bidders on the bidding

portal along with the reasons for non-qualification.

3.5. STEP IV - Evaluation of Financial Bids

3.5.1. The Bids which have been found Qualified by the BPC, based on the Steps I to III as specified above in Clauses 3.2.to 3.4, shall be opened and Quoted Transmission Charges of such Initial Offer shall be ranked on the basis of the ascending Initial Offer submitted by each Qualified Bidder.

Based on such ranking of the Qualified Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Qualified Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction.

Provided however, in case only one Bidder remains after the Evaluation of Technical Bid (Steps 1 to III) as per Clause 3.2 to 3.4, the Initial Offer of such Bidder shall not be opened and the matter shall be referred to the Government.

Provided that in the event the number of Qualified Bidders is between two and four, then each of the responsive Bidder shall be considered as Qualified Bidders.

Provided that in the event of identical Quoted Transmission Charges discovered from the Initial Offer having been submitted by one or more Bidders, all such Bidders shall be assigned the same rank for the purposes of determination of Qualified Bidders. In such cases, all Qualified Bidders who shares the same rank till 50% of the rank (with any faction rounded off to higher integer) determined above, shall qualify to participate in the electronic reverse auction stage. In case 50% of the rank is having less than four (4) Bidders and the rank of the fourth (4^{th}) Bidder is shared by more than one Bidder, then all such all such Bidders who share the rank of the fourth Bidder shall qualify to participate in the electronic reverse auction.

3.5.2. The Financial Bids comprising of both Initial Offer and Final Offer submitted by the Bidders shall be scrutinized to ensure conformity with the provisions of Clause 2.5.3 of this RFP. Any Bid not meeting any of the requirements as per Clause 2.5.3 of this RFP may cause the Bid to be considered "Non-responsive", at the sole decision of the BPC. Financial Bid not in conformity with the requirement of SI. No. (c) of Clause 2.5.3 of this RFP shall be rejected.

3.5.3 The Bidders shall quote the single annual Quoted Transmission Charges as specified in the format at Annexure – 21.

3.6. STEP V - Bidder Selection

3.6.1. The prevailing lowest Quoted Transmission Charges discovered from Final Offers shall only be displayed during the e-reverse bidding and the Bidder quoting such Final Offer will always remain anonymous during the e-reverse bidding. The Bidder with the prevailing lowest Quoted Transmission Charges discovered from Final Offers at the close of the scheduled or extended period of e-reverse bidding as mentioned in clause 2.5 shall be declared as the Successful Bidder, subject to verification of the original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14. The Letter of Intent shall be issued to such Successful Bidder in two (2) copies.

However, if no bid is received during the e-reverse bidding stage then the Bidder with lowest quoted initial transmission charges ("Initial Offer") during e-bidding stage shall be declared as the Successful Bidder, subject to verification of the original hard copies of Annexure 3, Annexure 4 (if applicable),

Annexure 6 (if applicable) and Annexure 14. The Letter of Intent shall be issued to such Successful Bidder in two (2) copies.

In case, there is a discrepancy between the online submission and physical documents, the bid would be out rightly rejected and the bidder shall be construed to have engaged in the fraudulent practice as defined in Clause 2.19.3 with consequences as mentioned in Clause 2.19.2. Further, in such a case, the provisions of Clause 2.5.6 (j) shall apply.

3.6.2. The Selected Bidder shall unconditionally accept the LoI, and record on one (1) copy of the LoI, "Accepted unconditionally", under the signature of the authorized signatory of the Successful Bidder and return such copy to the BPC within seven (7) days of issue of LoI.

3.6.3. If the Successful Bidder, to whom the Letter of Intent has been issued, does not fulfill any of the conditions specified in Clauses 2.15.2, 2.15.3 and Clause 2.15.4, then subject to Clause 2.15.5, the BPC reserves the right to annul the award of the Project and cancel the Letter of Intent. Further, in such a case, the provisions of Clause 2.5.6 (j) shall apply.

3.6.4. The BPC, in its own discretion, has the right to reject all Bids if the Quoted Transmission Charges are not aligned to the prevailing prices.

3.7. Misrepresentation by the Bidder

If the Bidder conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in the Technical Bid or Bid, as the case may be, in any manner whatsoever, in order to create circumstances for the acceptance of its Technical Bid/Bid, the BPC reserves the right to reject such Technical Bid/Bid, and/ or cancel the Letter of Intent, if issued. Further, in case Letter of Intent is cancelled, consequences as per provisions of the RFP shall follow.

3.8. Disposition of Technical Bid

3.8.1. Technical Bid found to be non-responsive as per Clause **3.2,** due to any of the following conditions, shall be liable for rejection.

- Technical Bid that is incomplete.
- Technical Bid not signed by authorized signatory and / or stamped in the manner indicated in this RFP.
- All pages of the Technical Bid submitted but not initialed by the authorized signatories on behalf of the Bidder.
- Technical Bid not including the covering letter as per **Annexure 1.**
- Technical Bid contains material inconsistencies in the information and documents submitted by the Bidder, affecting the Qualification Requirements.
- Information not submitted in formats specified in the RFP.
- The Bidder has not submitted a disclosure as per **Annexure 13.**
- Bidders delaying in submission of additional information or clarifications sought by the BPC.

3.8.2. Technical Bid found to be non-responsive as per Clause **3.2,** due to any of the following conditions, shall be rejected.

- Technical Bid not received by the scheduled date and time.
- Technical Bid submitted by a Bidding Consortium not including the Consortium Agreement.

- Bidder submitting or participating in more than one response either as a Bidding Company or as a Member of Bidding Consortium.
- More than one Member of the Bidding Consortium or a Bidding Company using the credentials of the same Parent/Affiliate.
- Technical Bid having Conflict of Interest.
- If the Bidder makes any misrepresentation as specified in Clause **3.7.**

3.9. BPC reserves the right to interpret the Bid in accordance with the provisions of this RFP document and make its own judgment regarding the interpretation of the same. In this regard, BPC shall have no liability towards any Bidder and no Bidder shall have any recourse to BPC with respect to the qualification process.

BPC shall evaluate Bid using the process specified in Clause 3.1 to 3.6, at its sole discretion. BPC's decision in this regard shall be final and binding.

SECTION - 4

ANNEXURES FOR BID

SECTION – 4

I. Formats for Bid

The following formats are required to be included in the Bidder's Technical and Financial Bid. These formats are designed to demonstrate the Bidder's compliance with the Qualification Requirements set forth in Clause 2.1 of Section – 2.

Technical Bid

1. Format for the Covering Letter
2. Format for Letter of Consent from Consortium Members
3. Format for evidence of authorized signatory's authority (Power of Attorney)
4. Format for Power of Attorney from to be provided by each of the other Members of the Consortium in favour of the Lead Member
5. Format for Bidder's composition and ownership structure and Format for Authorization
6. Format for Consortium Agreement
7. Formats for Qualification Requirement
8. Format of Bidders Undertaking and details of Equity Investment
9. Authorization from Parent/Affiliate of Bidding Company/Member of Bidding Consortium whose technical/financial capability has been used by the Bidding Company/Member of Bidding Consortium.
10. Undertaking from the Technically / Financially Evaluated Entity(ies) or from Ultimate Parent Company for equity investment
11. Format of Board Resolutions
12. Format for Illustration of Affiliates
13. Format for Disclosure
14. Format for Bid Bond

14A. Format for Bid Security Declaration

15. Format for Contract Performance Guarantee
16. Checklist for Technical Bid submission requirements

22. Format for Affidavit

In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI.

Financial Bid

21. Format for Financial Bid

II. The following formats are for the information to the Bidders to enable them to submit their Bid.

11A. Illustration for Applicable Board Resolution Requirements Under Clause 2.5.2

17. List of Banks
18. GRID Map of the Project
19. Format for clarification/amendments on the RFP/RFP Project Documents
20. Formats for RFP Project Documents

Bidder may use additional sheets to submit the information for its detailed Bid.

ANNEXURE 1 - COVERING LETTER

(The covering letter should be on the Letter Head of the Bidding Company/ Lead Member of the Consortium)

Date: ……
From: ……
……
……
Tel. No.: ……
Fax No.: ……
E-mail address: ……

To,
PFC Consulting Limited
9thFloor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: **Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process.**

1. Being duly authorized to present and act on behalf of M/s …… (insert name of Bidding Company / Bidding Consortium) (hereinafter called the "Bidder") and having read and examined in detail the Request for Proposal (RFP) document, the undersigned hereby submit our Technical Bid with duly signed formats and Financial Bid (Initial Offer) as stipulated in RFP document for your consideration.

2. It is confirmed that our Bid is consistent with all the requirements of submission as stated in the RFP document and subsequent clarifications/amendments as per Clause 2.3 and 2.4 of RFP.

3. The information submitted in our Bid is complete, is strictly as per the requirements stipulated in the RFP document and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid.

4. We hereby agree and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. 11/5/2018 - Coord. dated 28.07.2020 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard.

   We hereby also agree and undertake to comply with Department of Expenditure, Ministry of Finance vide Order vide Order OM No. F.7/10/2021-PPD (1) dated 23.02.2023, as amended from time to time, regarding public procurement from a bidder of a country, which shares land border with India.

5. We hereby agree to comply with Ministry of Power order no. 25-11/6/2018 – PG dated 02.07.2020 as amended from time to time.

6. We are herewith submitting legally binding board resolution for the total equity requirement of the Project.

7. We hereby confirm that in accordance with Clause 2.1.4 of the RFP, we are herewith submitting legally binding undertaking supported by a board resolution from the ……..(Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) that all the equity investment obligations of …….. (Insert name of the Bidding Company) shall be deemed to be equity investment obligations of the …… (Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) and in the event of any default by…….. (Insert name of the Bidding Company), the same shall be met by …….. (Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be).

[Sl. No 7 to be inserted only in case the Bidder is a Bidding Company / Lead Member of a Consortium and has sought qualification on the basis of technical and financial capability of its Affiliate(s) and/or its Parent]

8. We confirm that there are no litigations or disputes against us, which materially affect our ability to fulfill our obligations with regard to the Project.

9. We hereby confirm that we shall continue to maintain compliance with Qualification Requirements till the execution of the Transmission Service Agreement. Further, in case we emerge as Selected Bidder for the Project, we shall continue to maintain compliance with Qualification Requirements till the COD of the Project.

10. We confirm that we have studied the provisions of relevant Indian laws and regulations required to enable us to build, own, operate and transfer the said Project and to prepare this Bid.

11. We hereby confirm that we shall abide unreservedly with BPC's decision in the qualification process for selection of Qualified Bidder and further warrant that under no circumstances we shall challenge either the BPC's decision or its right to make such decision at any time in the future.

12. We confirm that the Bid shall remain valid for a period of one eighty (180) days from the Bid Deadline.

13. The details of contact person are furnished as under:

Name: ……
Designation: ……
Name of the Company: ……
Address of the Bidder: ……
Phone Nos.: ……
Fax Nos.: ……
E-mail address: ……

14. Bid Bond

We have enclosed a Bid Bond of Rupees …… Crores (Rs. ……) only or US$ ..... (……..US Dollars), in the form of bank guarantee no …… [Insert number of the Bank Guarantee] dated……[Insert Date of the Bank Guarantee] as per your proforma (Annexure-14)

from……[Insert name of bank providing Bid Bond] and valid up to ……..in terms of Clause 2.11 of the RFP.

15. Acceptance

We hereby unconditionally and irrevocably agree and accept that the decision made by the BPC on any matter regarding or arising out of the RFP shall be binding on us. We hereby expressly waive any and all claims in respect of Bid process.

16. Familiarity With Relevant Indian Laws & Regulations

We confirm that we have studied the provisions of relevant Indian laws and regulations as required to enable us to submit this Bid and execute the RFP Project Documents (other than TSA), in the event of our selection as the TSP. We further undertake and agree that all such factors as mentioned in Clause 2.5.7 of RFP have been fully examined and considered while submitting the Bid.

It is confirmed that our Bid is consistent with all the requirements of submission as stated in the RFP and subsequent communications from BPC.

The information submitted in our Bid is complete, strictly as per the requirements stipulated in the RFP and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid.

We confirm that we have not taken any deviation so as to be deemed non-responsive with respect to the provisions stipulated at Clause 2.5.1, of this RFP.

Thanking you,

Yours sincerely,

…….

(Name and Signature of the authorized signatory in whose name Power of Attorney/ Board Resolution as per Clause 2.5.2 is issued)

Name: ……
Designation: ……
Address: ……

Date: …….
Place: ……

Company Rubber Stamp

ANNEXURE 2 - LETTER OF CONSENT FROM CONSORTIUM MEMBERS

(On the letter head of each Member of the Consortium including Lead Member)

Date: ……
From: ……
……
……
Tel. No.: ……
Fax No.: ……
E-mail address: ……..

To,
PFC Consulting Limited
9thFloor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: **Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process.**

We, the undersigned Member of …… (Insert name of the Bidding Consortium) have read, examined and understood the RFP document for the short-listing of Bidders as prospective TSP to establish Inter-State Transmission System for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**" through tariff based competitive bidding process. We hereby confirm our concurrence with the Bid including in particular the Consortium Agreement submitted by …….. (Insert name of the Lead Member) in response to the RFP document.

We hereby confirm our commitment to participate in the said Bidding Consortium and invest ……. % of the total equity requirement for the Project as per the terms of the Consortium Agreement dated …… and board resolution for such investment commitment is enclosed herewith.

We hereby confirm that in accordance with Clause 2.1.4 of the RFP, we are enclosing legally binding undertaking supported by a board resolution from the …….. (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) that all the equity investment obligations of …….. (Insert name of the Member) shall be deemed to be equity investment obligations of the …….. (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) and in the event of any default by…….. (Insert name of the Member), the same shall be met by…….. (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be). [Insert if applicable]

[To be inserted by the Lead Member only] We are also enclosing legally binding board resolution for the total equity requirement of the Project in case of any breach of any of the equity investment commitment by any of the Consortium Members, in line with the provisions of the Consortium Agreement dated ……. [Bidder to insert date of Consortium Agreement].

The details of contact person are furnished as under:
Name: ……..
Designation: ……..

Name of the Company: …….
Address: …….
Phone Nos.: …….
Fax Nos.: …….
E-mail address: …….

Dated the ……. day of ……. of 20…

Thanking you,

Yours faithfully,

……
(Signature)

Name: …….
Designation: …….

(Signature, Name, Designation of Authorized Signatory of Consortium Member and Company's Seal)

ANNEXURE 3 - FORMAT FOR EVIDENCE OF AUTHORIZED SIGNATORY'S AUTHORITY (POWER OF ATTORNEY)

POWER OF ATTORNEY

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)

Know all men by these presents, We ……..(name and address of the registered office of the Bidder) do hereby constitute, appoint and authorize Mr./Ms. ……(name and residential address) who is presently employed with us and holding the position of …… as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** through tariff based competitive bidding process in the country of India, including signing and submission of all documents related to the Bid, including, undertakings, letters, certificates, acceptances, clarifications, guarantees, etc., making representations to the BPC, and providing information / responses to the BPC, representing us in all matters before the BPC, and generally dealing with the BPC in all matters in connection with our Bid for the said Project till the completion of the bidding process in accordance with the RFP and signing of the Share Purchase Agreement by all the parties thereto.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the RFP.

For …… [Insert name of the Bidder on whose behalf PoA is executed]

……..
(Signature)

Name: ……
Designation: ……

Accepted

……
(Signature of the Attorney)

Name: ……..
Designation: ……..
Address: ……..
……..
(Name, Designation and Address of the Attorney)

Specimen signatures of attorney attested by the Executant

……
(Signature of the Executant)

……..
(Signature of Notary Public)

Place: ……
Date: ……

Notes:

1) To be executed by Bidding Company or the Lead Member, in the case of a Bidding Consortium, as the case maybe.

2) The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal of the executant affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executant(s) in this regard.

3) Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a Board resolution / power of attorney, in favour of the Person executing this power of attorney for delegation of power hereunder on behalf of the executant(s).

4) In case of foreign Bidders, refer to clause 2.5.6 (p)

ANNEXURE 4 - FORMAT FOR POWER OF ATTORNEY TO BE PROVIDED BY EACH OF THE OTHER MEMBERS OF THE CONSORTIUM IN FAVOUR OF THE LEAD MEMBER

POWER OF ATTORNEY

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)

KNOW ALL MEN BY THESE PRESENTS THAT M/s……., having its registered office at ……., ……. and M/s ……. having its registered office at ……., (Insert names and registered offices of all Members of the Consortium), the Members of Consortium, have formed a Bidding Consortium named ……. (insert name of the Consortium) (hereinafter called the **"Consortium"**) vide Consortium Agreement dated…… and having agreed to appoint M/s…… as the Lead Member of the said Consortium do hereby constitute, nominate and appoint M/s……..a company incorporated under the laws of ……and having its Registered / Head Office at ……..as our duly constituted lawful Attorney (hereinafter called as **"Lead Member"**) which is one of the Members of the Consortium, to act as the Lead Member and our true and lawful attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to submission of Consortium's Bid for the Project, including signing and submission of the Bid and all documents related to the Bid, including, undertakings, letters, certificates, acceptances, clarifications, guarantees, etc, making representations to the BPC, and providing information / responses to the BPC, representing us and the Consortium in all matters before the BPC, and generally dealing with the BPC in all matters in connection with our Bid for the said Project, till completion of the bidding process in accordance with the RFP and signing of the Share Purchase Agreement by all the parties thereto.

It is expressly understood that in the event of the Consortium being selected as Successful Bidder, this Power of Attorney shall remain valid, binding and irrevocable until the Bidding Consortium achieves execution of all RFP Project Documents.

We, as the Member of the Consortium, agree and undertake to ratify and confirm all whatsoever the said Attorney/Lead Member has done on behalf of the Consortium Members pursuant to this Power of Attorney and the same shall bind us and deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the RFP.

IN WITNESS WHEREOF M/s ……., as the Member of the Consortium have executed these presents on this…… day of .....

For and on behalf of
Consortium Member

……
(Signature of the Authorized Signatory)

Name: ……
Designation: ……..
Place: ……
Date: ……

Name: ……
Designation: ……..

Place: ……
Date: ……..

Accepted
Specimen signatures of attorney attested

…….
(Signature)

……

……
(Signature of Notary Public) ……
(Name, Designation and Address of the Attorney)

Place: ……
Date: …….

Notes:

1. The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal of the executant affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executant(s) in this regard.

2. Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a Board resolution / power of attorney, in favour of the Person executing this power of attorney for delegation of power hereunder on behalf of the executant(s).

3. In case of foreign Bidders, refer to clause 2.5.6 (p)

ANNEXURE 5 - FORMAT FOR BIDDER'S COMPOSITION AND OWNERSHIP STRUCTURE

1. Corporate Details:

Please provide the following information for the Bidder. If the Bidder is a Consortium, please provide this information for each Member including the Lead Member:

a. Company's Name, Address, and Nationality:

Name: ……

Address: ……
……
……

Website Address: ……..

Country of Origin: ……

b. Year Organized: ……..

c. Company's Business Activities: …….
……

d. Status as a Bidder:

i. Bidding Company
ii. Lead Member of the Bidding Consortium
iii. Member of the Bidding Consortium

Note: tick the applicable serial number

e. Company's Local Address in India (if applicable):

……..
……..
……..

f. Name of the Authorized Signatory: ……

g. Telephone Number: ……..

h. Email Address: ……..

i. Telefax Number: ……..

j. Please provide the following documents:

i. Copy of the Memorandum and Articles of Association and certificate of incorporation or other equivalent organizational document (as applicable), including their amendments, certified by the Company Secretary as **Attachment 1** for Bidding Company / each Member of Bidding Consortium including Lead Member.

ii. Authority letter (as per format for authorization given below) in favour of BPC from the Bidder/every Member of the Consortium authorizing BPC to seek reference

from their respective bankers & others as **Attachment 2** as per Clause 2.1.6 of the RFP.

2. Details of Ownership Structure:

Equity holding of Bidding Company/ each Member of Bidding Consortium including Lead Member owning 10% or more of total paid up equity.

Name of the Bidding Company / Consortium Member: …….
Status of equity holding as on ……

Name of the Equity Holder	Type and No. of Shares owned	Extent of Voting Control (%)
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
….		

Notes:

1. The above table is to be filled in separately for each Consortium Member.
2. Status of equity holding should be provided not earlier than thirty (30) days prior to Bid Deadline.

For and on behalf of Bidding Company / Lead Member of the Bidding Consortium
M/s……

……..
(Signature of authorized representative)
Name: ……..
Designation: ……

……..
(Stamp)

Date: ……
Place: ……

FORMAT FOR AUTHORISATION

(In case of Bidding Consortium, to be given separately by each Member)
(On Non – judicial stamp paper duly attested by notary public. Foreign companies submitting bids are required to follow the applicable law in their country)

The undersigned hereby authorize(s) and request(s) all our Bankers, including its subsidiaries and branches, any person, firm, corporation or authority to furnish pertinent information deemed necessary and requested by **PFC Consulting Limited** to verify our Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** through tariff based competitive bidding process or regarding our project development experience, financial standing and general reputation.

For and on behalf of M/s……. (Insert Name of Bidding Company or Member of the Consortium)

.....
(Signature)

Name of Authorized Signatory: …….

(Signature and Name of the authorized signatory of the Company)

Place: ……
Date: ……

……..
(Company rubber stamp/seal)

…….
(Signature of Notary Public)

Place: ……
Date: ……

ANNEXURE 6 - FORMAT FOR CONSORTIUM AGREEMENT

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)

THIS CONSORTIUM AGREEMENT executed on this..... day of .....Two thousand.....between M/s....., a company incorporated under the laws of ..... and having its Registered Office at ..... (hereinafter called the "Party 1", which expression shall include its successors, executors and permitted assigns) and M/s.....a Company incorporated under the laws of ..... and having its Registered Office at ..... (hereinafter called the "Party n", which expression shall include its successors, executors and permitted assigns) and for the purpose of submitting the Bid, acquisition of **(SPV UNDER INCORPORATION)** (in case of award) and entering into other Agreement(s) as specified in the RFP (hereinafter referred to as "Agreements") as may be entered into with the Nodal Agency.

WHEREAS, the BPC had invited Bid in response to RFP issued to ..... (insert the name of purchaser of RFP) for selection of the bidder as the Transmission Service Provider to establish Inter-State Transmission System for **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"**.

AND WHEREAS, Clause 2.2.4 of the RFP document stipulates that the Bidders qualifying on the strength of a Bidding Consortium will have to submit a legally enforceable Consortium Agreement in a format specified in the RFP document wherein the Consortium Members have to commit equity of a specific percentage in the Project.

AND WHEREAS, Clause 2.2.4 of the RFP document also stipulates that the Bidding Consortium shall provide along with the Bid, a Consortium Agreement as per prescribed format whereby the Consortium Members undertake to be liable for raising the required funds for its respective equity investment commitment as specified in Consortium Agreement.

NOW THEREFORE, THIS INDENTURE WITNESSTH AS UNDER:

In consideration of the above premises and agreement all the parties in this Consortium do hereby mutually agree as follows:

1. In consideration of the selection of the Consortium as the selected bidder by the BPC, we the Members of the Consortium and parties to the Consortium Agreement do hereby unequivocally agree that M/s..... (Insert name of the Lead Member), shall act as the Lead Member as defined in the RFP for self and agent for and on behalf of ....., ..., ..., ... (the names of all the other Members of the Consortium to be filled in here).

2. The Lead Member is hereby authorized by the Members of Consortium and parties to the Consortium Agreement to bind the Consortium and receive instructions for and on behalf of the Members.

3. Notwithstanding anything contrary contained in this Consortium Agreement, the Lead Member shall always be liable for the equity investment obligations of all the Consortium Members, i.e., for both its own equity contribution as well as the equity contribution of other Members.

4. The Lead Member shall be liable and responsible for ensuring the individual and collective commitment of each of the Members of the Consortium in discharging all their respective equity

obligations. Each Consortium Member further undertakes to be individually liable for the performance of its part of the obligations without in any way limiting the scope of collective liability envisaged in this agreement.

5. Subject to the terms of this agreement, the share of each Member of the Consortium in the "issued equity share capital of the project company" shall be in the following proportion: (if applicable)

Name	Percentage of equity holding in the Project
Party 1	…….
…….	…….
Party n	…….
Total	**100%**

[**Note:** The percentage equity holding for any Consortium Member in the Project cannot be zero in the above table]

6. The Lead Member shall inter alia undertake full responsibility for liaising with lenders and mobilizing debt resources for the Project and achieving financial closure.

7. In case of any breach of any of the equity investment commitment by any of the Consortium Members, the Lead Member shall be liable for the consequences thereof.

8. Except as specified in the Agreement, it is agreed that sharing of responsibilities as aforesaid and equity investment obligations thereto shall not in any way be a limitation of responsibility of the Lead Member under these presents.

9. It is further specifically agreed that the financial liability for equity contribution of Lead Member shall, not be limited in any way so as to restrict or limit its liabilities. The Lead Member shall be liable irrespective of their scope of work or financial commitments.

10. It is expressly understood and agreed between the Members that the responsibilities and obligations of each of the Members shall be as delineated as annexed hereto as **Appendix-I,** forming integral part of this Agreement. It is further agreed by the Members that the above sharing of responsibilities and obligations shall not in any way be a limitation of joint and several responsibilities and liabilities of the Members, with regards to all matters relating to the Project.

11. It is clearly agreed that the Lead Member shall ensure performance under the Agreements and if one or more Consortium Members fail to perform its /their respective obligations under the Agreement(s), the same shall be deemed to be a default by all the Consortium Members.

12. This Consortium Agreement shall be construed and interpreted in accordance with the Laws of India and courts at **Delhi** alone shall have the exclusive jurisdiction in all matters relating thereto and arising there under.

13. It is hereby agreed that, the Lead Member shall furnish the bid bond, as stipulated in the RFP, on behalf of the Consortium Members.

14. It is hereby agreed that in case of selection of Bidding Consortium as the selected bidder, the parties to this Consortium Agreement do hereby agree that they shall furnish the contract performance guarantee on behalf of the TSP in favour of the Nodal Agency, as stipulated in the RFP and Transmission Service Agreement.

15. It is further expressly agreed that the Consortium Agreement shall be irrevocable and shall form an integral part of the RFP Project Document and shall remain valid till the execution of the Share Purchase Agreement, unless expressly agreed to the contrary by the Nodal Agency. Over the term of the Transmission Service Agreement, Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time shall apply on the Consortium Members.

16. The Lead Member is authorized and shall be fully responsible for the accuracy and veracity of the representations and information submitted by the Consortium Members respectively from time to time in response to the RFP and for the purposes of the Project.

17. It is hereby expressly agreed between the parties to this Consortium Agreement that neither party shall assign or delegate its rights, duties or obligations under this Agreement except with the prior written consent of the Nodal Agency.

THIS CONSORTIUM AGREEMENT:

a. has been duly executed and delivered on behalf of each party hereto and constitutes the legal, valid, binding and enforceable obligation of each such party,

b. sets forth the entire understanding of the parties hereto with respect to the subject matter hereof;

c. may not be amended or modified except in writing signed by each of the parties and with prior written consent of the Nodal Agency.

IN WITNESS WHEREOF, the parties to the Consortium Agreement have, through their authorized representatives, executed these present on the Day, Month and Year first mentioned above.

For and on behalf of Consortium Member 1 (Party 1)
M/s……

.....
(Signature of authorized signatory)

Name: …….
Designation: .....
Place: ……..
Date: ……

For and on behalf of Consortium Member n (Party n)
M/s……

.....
(Signature of authorized signatory)

Name: ……

Designation: .....
Place: ……
Date: ……..

Attested:

……..
(Signature)
(Notary Public)

Place: ……
Date: ……

Note: In case of foreign Bidders, refer to clause 2.5.6 (p)

Appendix 1 to the Consortium Agreement:

Name of the Consortium Member	Responsibilities under the Consortium Agreement
M/s …… (Party 1)	
M/s ……	
M/s …… (Party n)	

ANNEXURE 7 A - FORMAT FOR QUALIFICATION REQUIREMENT

A. NET WORTH

To,
PFC Consulting Limited
9thFloor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process

1. [Note: Applicable in case of Bidding Company]

We certify that the Financially Evaluated Entity (ies) had a Networth of Rs. …… Crore or equivalent USD* computed as per instructions in this RFP based on unconsolidated audited annual accounts (refer Note-2 below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years is not negative.

Name of Financially Evaluated Entity(ies)	Relationship with Bidding Company**	Financial Year	Networth (Rs. Crore)
1. ……..			
2. ……..			
3. ……..			
….			
Total Networth			

*Equivalent USD shall be calculated as per provisions of Clause 3.4.1.
** The column for "Relationship with Bidding Company" is to be filled in only in case financial capability of Parent/Affiliate has been used for meeting Qualification Requirements.

2. [Note: Applicable in case of Bidding Consortium]

We certify that the Financially Evaluated Entity (ies) had a minimum Networth of Rs. …….. Crore or equivalent USD* computed as per instructions in the RFP and based on unconsolidated audited annual accounts (refer Note-2 below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years is not negative.

Name of Consortium Member	Equity Commitment in the Project (%)	Networth of Member (Rs. Crore)	Networth Requirement to be met by Member in proportion to the Equity Commitment (Rs. Crore)	Whether the Member meets the Networth Requirement
(1)	(2)	(3) (As per table below)	(4)= (2 x Total Networth requirement for the Project)	(5)
1. ……				Yes / No
2. ……				Yes / No
..				Yes / No
Total Networth for financial requirement				

Member – I (Lead Member)

[Note: Similar particulars for each Member of the Consortium is to be furnished, duly certified by the Member's Statutory Auditors]

i. Name of Member: .....

ii. Total Networth requirement: Rs …… Crore

iii. Percentage of equity commitment for the Project by the Member: ……%

iv. Networth requirement for the Member***: Rs. …….. Crore

v. Financial year considered for the Member: ……

Name of Financially Evaluated Entity(ies)	Relationship** with Member of Consortium	Financial Year	Networth (Rs. Crore)
1. ……			
2. ……			
3. ……			
Total Networth			

* Equivalent USD shall be calculated as per provisions of Clause 3.4.1;

** The column for "Relationship with Member of Consortium" is to be filled in only in case the financial capability of Parent / Affiliate has been used for meeting Qualification Requirements;

*** Networth requirement to be met by Member should be in proportion to the equity commitment of the Member for the Project.

Yours faithfully

……
(Signature and name of the authorized signatory of the Company and Stamp)

Name : ……
Date : ……
Place : ……

……
(Signature and Stamp of statutory Auditors of Bidding Company / each Member of Consortium)

Name : ……
Date : ……
Place : ……

Date : ……

Notes:

1. Along with the above format, in a separate sheet, please provide details of computation of Networth of last three (3) financial years duly certified by Statutory Auditor.

2. Audited consolidated annual accounts of the Bidder may be used for the purpose of financial criteria provided the Bidder has at least 26% equity in each company whose accounts are merged in the audited consolidated accounts and provided further that the financial capability of such companies (of which accounts are being merged in the consolidated accounts) shall not be considered again for the purpose of evaluation of the Bid.

3. In case Bidder or a Member of Consortium takes recourse to its Parent/Affiliate for meeting technical / financial requirements, then the financial years considered for such purpose should be same for the Bidder / Member of Consortium and their respective Parent / Affiliate.

ANNEXURE 7B - FORMAT FOR TECHNICAL REQUIREMENT

To,
PFC Consulting Limited
9th Floor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process

1. To be used by Bidder using the development experience in infrastructure sector

We certify that M/s. …….. (Insert name of Technically Evaluated Entity (ies)) have experience of development of projects in the infrastructure sector in the last five (5) years whose aggregate capital expenditure is Rs. …… Crore or equivalent USD*. We further certify that the capital expenditure of any single project considered for meeting the technical Qualification Requirement is not less than **Rs.434 Crore (Rupees Four Hundred Thirty Four Crore Only)** or equivalent USD*. For this purpose, capital expenditure incurred on projects which have been either wholly completed / commissioned or partly completed projects put under commercial operation and for which operation has commenced till at least seven (7) days prior to the Bid Deadline has been considered.

The project(s) considered for the purpose of technical experience (as per table given below) have been executed and owned to the extent as indicated in the table below (to be at least twenty – six percent (26%)) by the Bidding Company / Lead Member of the Consortium / our Parent / our Affiliate(s) [strike off whichever is not applicable] on operation of the projects.

This technical requirement has been calculated as per the instructions provided in the RFP on the basis of following projects:

Name of Company (which has executed the project at (3)) whose technical capability has been used for Qualification Requirement	Relationship** with Bidding Company / Lead Member	Project name	Nature of Project (BOOT, BOT, BOOM, DBFOT etc.)	Relevant Infrastructure sector	Date of Financial Closure of the Project (in DD / MM / YYYY)	Date of Completion / Commissioning / Commercial Operation of partly completed projects	Project cost (Rs. Crore)	Percentage Equity Holding of Company at (1) in Completed project(s)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
……		……. (Project 1)						
……		…….						
Total (Rs. Crore)								

* Equivalent USD shall be calculated as per provisions of Clause ____

** The column for "Relationship with Bidding Company / Lead Member" is to be filled in only in case technical capability of Parent/Affiliate has been used for meeting Qualification Requirements.

We further certify that the Company(ies) as indicated in column (1) of the above table, whose technical capability has / have been used for meeting the qualification requirement, has / have held shareholding respectively of at least twenty – six percent (26%) from the date of financial closure till the date of commissioning / completion of the above project(s).

2. To be used by Bidder using construction experience in infrastructure sector.

We certify that M/s. …….. (Insert name of Technically Evaluated Entity(ies)) have received aggregate payments not less than Rs. ……. Crore or equivalent USD (calculated as per provisions in Clause 3.4.1) from its client(s) for construction works fully completed during the last 5(five) financial years. We further certify that the payment received from each project shall not be less than Rs. ……. Crore or equivalent USD (calculated as per provisions in Clause 3.4.1). For this purpose, payments received on projects that have been commissioned/completed at least seven (7) days prior to the Bid Deadline shall be considered. Further only the payments (gross) actually received, during such 5 (five) financial years shall qualify for purposes of computing the technical capacity.

We also confirm that construction works does not include cost of land supply of goods or equipment except when such goods or equipment form part of a turn-key construction contract/ EPC contract for the project.

This technical requirement has been calculated as per the instructions provided in the RFP on the basis of following projects:

Name of Company (which has executed the project at (3)) whose technical capability has been used for Qualification Requirement	**Relationship ** with Bidding Company / Lead Member**	**Project name**	**Nature of Project (EPC, Turnkey etc)**	**Relevant Infrastructure sector**	**Date of award of contract (in dd/mm/yy)**	**Date of Completion / Commissioning**	**Payment received (Rs. Crore)**
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
……		……. Project 1					
……		…….					
……		…….					
	Total (Rs. Crore)						

Yours faithfully

……..
(Signature and name of the authorized signatory of the Company and stamp)

Name: ……..
Date: ……..
Place: ……..

……..
(Signature and Stamp of statutory Auditors of Bidding Company/ Lead Member of Consortium)
Name: ……..
Date: ……..
Place: ……..

Date: ……..

Notes:

1. Along with the above format, in a separate sheet, please provide details of computation of capital expenditure of projects duly certified by Statutory Auditor of the project company. In addition, the Statutory Auditor of the project company should also certify that the capital expenditure of projects commissioned or completed 7 days prior to Bid Deadline has been capitalized in the books of accounts.

   Additionally, in case construction experience is used, a certificate(s) from the statutory auditors stating the payments received and the concerned client(s) stating the works commissioned during the past 5 years in respect of the projects specified above. In case a particular job/ contract has been jointly executed by the Bidder (as part of a consortium), it should further support its claim for the share in work done for that particular job/ contract by producing a certificate from its statutory auditor or the client.

2. In case the accounts for the financial year in which the project claimed for meeting qualification requirement has been commissioned are not audited, the Bidder shall give declaration in this regard duly certified by its statutory auditor. In such a case, Bidder shall provide details of computation of capital expenditure of such project(s) duly certified by Statutory Auditor of the project company and the Statutory Auditor of the project company should also certify that the capital expenditure of projects commissioned or completed shall be capitalized in the books of accounts upon finalization.

3. The unconsolidated audited annual accounts of both the TEE and the Bidding Company / Lead Member for the respective financial years (financial years in which financial closure was achieved to the financial year in which the said project was completed / commissioned) should be submitted.

ANNEXURE 7C - FORMAT FOR TECHNICAL & FINANCIAL REQUIREMENT – RELATIONSHIP & DETAILS OF EQUITY SHAREHOLDING

[To be filled by Bidding Company / each Member of the Bidding Consortium including Lead Member if credentials of Parent and / or Affiliates have been used by them]

To,
PFC Consulting Limited
9th Floor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process

We certify that M/s. ..... (insert name of the **Bidding Company / Consortium Members**) have considered the technical and financial capability of its Parent and / or Affiliates, for the purpose of meeting Qualification Requirements as per the instructions provided in the RFP. The name of Parent and / or Affiliate, nature of relationship(s) with such Parent and / or Affiliate and details of equity holding are as follows:

Name of Company whose credentials considered	Type of credentials considered (technical and / or financial)	Relationship with Bidding Company / Consortium Member (Parent / Affiliate)	Details of equity shareholding (refer notes below)
Company 1			
.....			
.....			
.....			
.....			

NOTES:

i. In case of Parent, the equity holding of the Parent in the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium, need to be specified.

ii. In case of Affiliate under direct control of Bidder, the equity holding of the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium in the Affiliate, needs to be specified.

iii. In case of Affiliate under common control of Parent, the equity holding of the Parent in the Affiliate of the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium, needs to be specified.

iv. Relationship of Parent / Affiliate with Bidding Company / Member of Consortium to be at the most seven (7) days prior to the Bid Deadline (as per Clause 2.1.4 of RFP)

Yours faithfully

.....

(Signature and name of the authorized signatory of the Company and stamp)

Name: ……
Date: ……
Place: ……

……
(Signature and Stamp of statutory Auditors of Bidding Company / each Member of Bidding Consortium)

Name: ……..
Date: ……..
Place: ……..
Date: ……..

ANNEXURE 7D - ADDITIONAL INFORMATION FOR VERIFICATION OF FINANCIAL AND TECHNICAL CAPABILITIES OF BIDDERS.

…….

(Name of Bidder (Bidding Company/ Bidding Consortium or Technically/Financially Evaluated Entity (ies))

(Note: In case of Consortium, details to be filled in by Lead Member for each Member of the Consortium including the Lead Member and in case of the qualification requirements of Technically / Financially Evaluated Entity (ies) being used, to be filled by each of such entity (ies)

i. Financial capability (Attachment 1):

1. Bidders shall attach unconsolidated / consolidated audited annual accounts, statements, as the case may be, (refer Clause 2.1.3) for the last three (3) financial years as Attachment 1. Such unconsolidated audited annual accounts shall include a Balance Sheet, Profit and Loss Account, Auditors Report and profit appropriation account.

ii. Technical capability (Attachment 2):

a. This attachment shall include details of projects completed/commissioned or partly completed projects for which commercial operation has commenced to be considered for the purpose of meeting Qualification Requirements.

1. To be used by Bidder using development experience in infrastructure sector

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Name(s) of project(s) from Infrastructure sectors					
Location(s) including country(s) where project was set up					
Nature of Project					
Voltage level (if any)					
Capital cost of project(s) Rs. in Crore					
*Status of the project					
% of equity owned in the project(s)					

***Note 1:** Date of completion/commissioning/commercial operation to be mentioned

Note 2: For each project listed in the table, the Bidder shall furnish an executive summary including the following information:

- Project model, i.e., BOO, BOOT, BOOM;
- Debt financing and equity raised and provided by Bidder/Bidder's Parent/Bidder's Affiliate for the project, including names of lenders and investors;
- Size and type of installation;
- Technical data/information on major equipment installed

- Description of role performed by the Bidder/Bidder's Parent/Bidder's Affiliate on the project
- Clearances taken by the Bidder/Bidder's Parent/Bidder's Affiliate including but limited to right-of-way (RoW), forest clearance and other statutory / Govt. clearances.
- Cost data (breakdown of major components)
- Name of EPC and/or other major contractor
- Construction time for the project
- Names, addresses and contact numbers of owners of the projects
- Operating reliability over the past five (5) years or since date of commercial operation
- Operating environmental compliance history
- Names of supervisory entities or consultant, if any
- Date of commercial operation
- Total duration of operation

2. To be used by Bidder using construction experience in infrastructure sector

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Name(s) of project(s) from Infrastructure sectors					
Location(s) including country(s) where project was set up					
Nature of Project					
Voltage level (if any)					
Revenue received Rs. in Crore					
*Status of the project					
% of equity owned in the project(s)					

***Note 1:** Date of completion/commissioning/commercial operation to be mentioned

Note 2: For each project listed in the table, the Bidder shall furnish an executive summary including the following information:

- Project model, i.e., EPC, Turnkey;
- Size and type of installation;
- Technical data/information on major equipment installed
- Description of role performed by the Bidder/Bidder's Parent/Bidder's Affiliate on the project
- Cost data (breakdown of major components)
- Name of sub-contractor
- Construction time for the project
- Names, addresses and contact numbers of owners of the projects
- Operating reliability over the past five (5) years or since date of commercial operation
- Operating environmental compliance history
- Names of supervisory entities or consultant, if any
- Date of commercial operation
- Total duration of operation

iii. Attachment-3:

a. For each project listed in Attachment 2 above, certificates of final acceptance and/or certificates of good operating performance duly issued by owners for the project and the same shall be certified as true by authorized signatory of the Bidding Company or the Lead

Member of Consortium). In case the project listed in Attachment 2 is under BOOT / DBFOT mechanism, the certificates of final acceptance and/or certificates of good operating performance must be issued by the authority / independent engineer of the project as defined in the respective project agreement.

For and on behalf of Bidding Company/Consortium

M/s……

……
(Signature of authorized signatory)

Name: ……
Designation: ……
Date: ……
Place: ……

ANNEXURE 8 -UNDERTAKING AND DETAILS OF EQUITY INVESTMENT

Format 1: Bidders' Undertakings

[On the Letter Head of the Bidding Company/Lead Member of Bidding Consortium]

Date: .....

To,

PFC Consulting Limited
9thFloor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: Bidders' Undertakings in respect of Bid for selection of Bidder as TSP to establish Inter-State transmission system for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"

We hereby undertake on our own behalf and on behalf of the TSP, that if selected as the Successful Bidder for the Project:

1. The Project shall comply with all the relevant electricity laws, codes, regulations, standards and Prudent Utility Practices, environment laws and relevant technical, operational and safety standards, and we shall execute any agreements that may be required to be executed as per law in this regard.

2. We confirm that the Project shall also comply with the standards and codes as per Clause 1.6.1.2 of the RFP and the TSP shall comply with the provisions contained in the Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-state Transmission and related matters Open Access) Regulations, 2009.

3. We give our unconditional acceptance to the RFP dated **May 05, 2025** issued by the BPC and the RFP Project Documents, as amended, and undertake to ensure that the TSP shall execute all the RFP Project Documents, as per the provisions of this RFP.

4. We have submitted the Bid on the terms and conditions contained in the RFP and the RFP Project Documents. Further, the Financial Bid submitted by us is strictly as per the format provided in Annexure 21 of the RFP, without mentioning any deviations, conditions, assumptions or notes in the said Annexure.

5. Our Bid is valid up to the period required under Clause 2.8 of the RFP.

6. Our Bid has been duly signed by authorized signatory and stamped in the manner and to the extent indicated in this RFP and the power of attorney / Board resolution in requisite format as per RFP has been enclosed with this undertaking.

7. We have assumed that if we are selected as the Successful Bidder, the provisions of the Consortium Agreement, to the extent and only in relation to equity lock in and our liability thereof shall get modified to give effect to the provisions of Clause 2.5.8 of this RFP and Article 18.1 of the Transmission Service Agreement. ***(Note:*** *This is applicable only in case of a Bidding Consortium).*

8. *We confirm that our* Bid *meets the Scheduled COD of each transmission Element and the Project as specified below:*

Sl. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs	24 months	8.57	Kurnool-IV Phase-I Tr. System and Element at Sl. No. 2 & 3
2.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 1 & 3
3.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 1 & 2
4.	Augmentation of Kurnool-IV PS by 765/400kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs	30 months	91.43	Kurnool-IV Phase-I Tr. System and Element at Sl. No. 5-10
5.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4 & 6-10
6.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4,5 & 7-10
7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4,5,6 & 8-10
8.	LILO of Kurnool-IV – Bidar 765kV D/c line at Shadnagar (about 50 kms)			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4-7, 9 & 10

Sl. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
9.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/c line (about 50 kms) {TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame}			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4-8 & 10
10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c line (about 60 kms)			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4-9

We agree that the payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after the successful commissioning of Element(s) which are pre - required for declaring the commercial operation of such Element as mentioned in the above table.

Scheduled COD for the Project: 24 Months from Effective Date.

9. We confirm that our Financial Bid conforms to all the conditions mentioned in this RFP, and in particular, we confirm that:

   a. Financial Bid in the prescribed format of Annexure 21 has been submitted duly signed by the authorized signatory.

   b. Financial Bid is unconditional.

   c. Only one Financial Bid has been submitted.

10. We have neither made any statement nor provided any information in this Bid, which to the best of our knowledge is materially inaccurate or misleading. Further, all the confirmations, declarations and representations made in our Bid are true and accurate. In case this is found to be incorrect after our acquisition of **(SPV UNDER INCORPORATION)**, pursuant to our selection as Selected Bidder, we agree that the same would be treated as a TSP's Event of Default under Transmission Service Agreement, and relevant provisions of Transmission Service Agreement shall apply.

11. We confirm that there are no litigations or other disputes against us which materially affect our ability to fulfill our obligations with regard to the Project as per the terms of RFP Project Documents.

12. Power of attorney/ Board resolution as per Clause 2.5.2 is enclosed.

Signature and name of the authorized signatory of the Company and stamp of Bidding Company or Lead member of Consortium

Note:

1. In case of foreign Bidders, refer to clause 2.5.6 (p)

Format 2: Details of equity investment in Project

1.1.a Name of the Bidding Company/ Bidding Consortium:

1.1.b Name of the Lead Member in the case of a Bidding Consortium:

1.2 Investment details of the Bidding Company/Member of the Bidding Consortium investing in **(SPV UNDER INCORPORATION)** as per Clause 2.5.8.2.

S. No.	Name of the Bidding Company/ Member in case of a Bidding Consortium	Name of the Company investing in the equity of the _____[Name of SPV]	Relationship with Bidding Company /Member of the Bidding Consortium	% of equity participation in the _____[Name of SPV]
(1)	(2)	(3)	(4)	(5)
TOTAL				100%

* In case the Bidder proposes to invest through its Affiliate(s) / Parent Company / Ultimate Parent Company, the Bidder shall declare shareholding pattern of such Affiliate(s) / Parent Company / Ultimate Parent Company and provide documentary evidence to demonstrate relationship between the Bidder and the Affiliate(s) / Parent Company / Ultimate Parent Company. These documentary evidences could be, but not limited to, demat account statement(s) / Registrar of Companies' (ROC) certification / share registry book, etc duly certified by Company Secretary.

Members of the Consortium or the Bidding Company making investment in the equity of the _____[Name of SPV] themselves to fill in their own names in the column (3)

Signature and Name of authorized signatory in whose name power of attorney has been issued

Signature of authorized signatory

Name: ……..

Designation: ……...

Date……..

Company rubber stamp

ANNEXURE 9 -AUTHORISATION FROM PARENT/ AFFILIATE OF BIDDING COMPANY/ MEMBER OF BIDDING CONSORTIUM WHOSE TECHNICAL/ FINANCIAL CAPABILITY HAS BEEN USED BY THE BIDDING COMPANY/ MEMBER OF BIDDING CONSORTIUM.

[On the Letter Head of the Parent /Affiliate]

Name: …….
Full Address: …….
Telephone No.: ……..
E-mail address: ……..
Fax / No.: ……

To

PFC Consulting Limited
9th Floor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Dear Sir,

Sub: Authorization for use of Technical / Financial Capability of M/s……. (Insert name of Parent / Affiliate) by M/s …….. (Insert name of Bidding Company / Member of Bidding Consortium).

We refer to the RFP dated **May 05, 2025** ('RFP') issued by you for selection of Bidder as Transmission Service Provider for establishing the Inter-State Transmission System for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**".

We confirm that M/s. ……. (Insert name of Bidding Company/ Consortium Member) has been authorized by us to use our technical and/or financial capability [strikeout whichever is not applicable] for meeting the Qualification Requirements for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"**.

We have carefully read and examined in detail the RFP including in particular, Clause 2.1.4 of the RFP, and we are also submitting legally binding undertaking supported by a board resolution that all the equity investment obligations of M/s……. (Insert Name of Bidding Company / Consortium Member), shall be deemed to be our equity investment obligations and in the event of any default the same shall be met by us.
For and on behalf of M/s……. (Insert Name of Parent / Affiliate)

……
(Signature and Name of the authorized signatory of the Company and stamp)

Name: …….
Date: …….
Place: …….

Notes:

1. The above undertaking can be furnished by Ultimate Parent of Technically Evaluated Entity or Financially Evaluated Entity, as the case maybe, if legally binding undertaking is also furnished by the Ultimate Parent on behalf of such Financially Evaluated Entity/Technically Evaluated Entity.

ANNEXURE 10- FORMAT OF UNDERTAKING BY TECHNICALLY / FINANCIALLY EVALUATED ENTITY / ULTIMATE PARENT COMPANY

[On the Letter Head of the Technically / Financially Evaluated Entity / Ultimate Parent Company]

Name: ……

Full Address: ……

Telephone No.: ……

E-mail address: ……

Fax/No.: ……..

To:

Chief Executive Officer
PFC Consulting Limited
9thFloor, Wing-A, Statesman House,
Connaught Place, New Delhi - 110001

Sub: **Undertaking for equity investment**

Dear Sir,

We refer to the Request for Proposal dated **May 05, 2025** ('RFP') issued by you regarding setting up of Inter-State transmission system for **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** Project on build, own, operate and transfer basis.

We have carefully read and examined in detail the RFP and the RFP Project Documents, including in particular, Clause 2.1.4 of the RFP and Clauses 2.5.2 and 2.5.8 of the RFP, regarding submission of an undertaking regarding the investment in the equity share capital of **(SPV UNDER INCORPORATION)** and provisions for minimum equity holding and equity lock-in. We have also noted the amount of the equity investment required to be made in **(SPV UNDER INCORPORATION)** by the ……. [Insert the name of the Bidder or the Consortium Member] for the Project.

In view of the above, we hereby undertake to you and confirm that in the event of failure of ……[Insert the name of the Bidder or the Consortium Member] to invest in full or in part, in the equity share capital of **(SPV UNDER INCORPORATION)** as specified in the Bid, we shall invest the said amount not invested by……[Insert the name of the Bidder or the Consortium Member] in **(SPV UNDER INCORPORATION)** by purchase of existing shares or subscribing to the new shares of **(SPV UNDER INCORPORATION)**, as stipulated by you.

We have attached hereto certified true copy of the Board resolution whereby the Board of Directors of our Company has approved issue of this Undertaking by the Company.

All the terms used herein but not defined, shall have the meaning as ascribed to the said terms under the RFP.

Certified as true.

……..

(Signature and Name of the authorized signatory of the Company and stamp)

Note:

1. Wherever required, extract of the charter documents and documents such as a Board resolution should be submitted for verification.

ANNEXURE 11 - FORMATS FOR BOARD RESOLUTIONS

Format 1

Format of the Board resolution for the Bidding Company / each Member of the Consortium / investing Affiliate / Parent Company / Ultimate Parent Company, where applicable

[Reference Clause 2.5.2 of the RFP and the illustrations in Annexure 11A]

[Note: The following resolution no.1 needs to be passed by the Boards of each of the entity/ (ies) making equity investment]

The Board, after discussion, at the duly convened Meeting on …….. [Insert date], with the consent of all the Directors present and in compliance of the provisions of the Companies Act, 1956/2013, passed the following Resolution:

1. **RESOLVED THAT** pursuant to the provisions of the Companies Act, 1956 / Companies Act 2013 (as the case may be) and compliance thereof and as permitted under the Memorandum and Articles of Association of the company, approval of the Board be and is hereby accorded for investment of…….% (……per cent) of the total equity share capital of **(SPV UNDER INCORPORATION)** representing the entire amount proposed to be invested by the company for the transmission system for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"**, partly by acquisition of the existing equity shares from PFC Consulting Limited and / or partly by subscribing to the new equity shares, as per the terms of the RFP.

[Note: Equity investment obligations by the Bidding Company/each Member of the Bidding Consortium/investing Affiliate or Parent or Ultimate Parent should add up to 100%.]

[Note: In the event the Bidder is a Bidding Consortium, the following Board resolution no. 2 also needs to be passed by the Lead Member of the Bidding Consortium]

2. **RESOLVED THAT** approval of the Board be and is hereby accorded to contribute such further amount over and above the;……. percentage (__%) limit to the extent becoming necessary towards the total equity share in the **(SPV UNDER INCORPORATION)**, obligatory on the part of the company pursuant to the terms and conditions contained in the Consortium Agreement dated ……executed by the company as per the provisions of the RFP.

[Note: In the event, the investing entity is an Affiliate or Parent or Ultimate Parent of the Bidder, the following Board resolution no. 3 shall also be passed by the Bidder]

3. **FURTHER RESOLVED THAT** the Board hereby acknowledges the Board Resolution(s) passed by the…….. [Name of the Affiliate(s)/ Parent / Ultimate Parent] regarding the investment of…….(….%) of the equity share capital requirements of **(SPV UNDER INCORPORATION)**, which is to be invested by the ……..[Name of the Affiliate(s)/ Parent / Ultimate Parent] for the **(SPV UNDER INCORPORATION)**, partly by acquisition of the existing equity shares from PFC Consulting Limited and partly by subscribing to the new equity shares, as per the terms of the RFP.

[Note: The following resolution no. 4 is to be provided by the Bidding Company / Lead Member of the Consortium only]

4. FURTHER RESOLVED THAT MR/MS ……..be and is hereby authorized to take all the steps required to be taken by the Company for submission of the Bid, including in particular, signing of the Bid, making changes thereto and submitting amended Bid, all the documents related to the Bid, certified copy of this Board resolution or letter or undertakings etc, required to be submitted to BPC as part of the Bid or such other documents as may be necessary in this regard.

Certified True Copy

Company rubber stamp to be affixed

[Notes:

1) This certified true copy should be submitted on the letterhead of the Company, signed by the Company Secretary or any Whole Time Director/ Manager (supported by a specific board resolution) of the Bidding Company or the Lead Member of Consortium.

2) The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution, i.e., the Bidding Company, each Member of the Bidding Consortium.

3) This format may be modified only to the limited extent required to comply with the local regulations and laws applicable to a foreign entity submitting this resolution. For example, reference to Companies Act 1956 / Companies Act 2013 (as the case may be) may be suitably modified to refer to the law applicable to the entity submitting the resolution. However, in such case, the foreign entity shall submit an unqualified opinion issued by the legal counsel of such foreign entity, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.]

Format 2

Format for the Board resolution of Technically / Financially Evaluated Entity / Ultimate Parent Company (in case credentials of such TEE/ FEE has been utilized by the Bidding Company or Bidding Consortium)

The Board, after discussion, at the duly convened Meeting on ..... [Insert date], with the consent of all the Directors present and in compliance of the provisions of the Companies Act, 1956 / 2013, passed the following Resolution:

RESOLVED THAT pursuant to the provisions of the Companies Act, 1956 / Companies Act, 2013 (as the case may be) and compliance thereof and as permitted under the Memorandum and Articles of Association of the company, approval of the Board be and is hereby accorded for issuing an Undertaking to the BPC, in the format specified in the RFP issued by the BPC, draft of which is attached hereto and initialed by the Chairman whereby the company undertakes to invest .....percent (.... %) of the total equity share capital of **(SPV UNDER INCORPORATION)** representing the entire amount proposed to be invested by .....[insert the name of the Bidder or Member] for the said Project, in case of failure of .....[Insert the name of the Bidder or Member] to make such investment".

FURTHER RESOLVED THAT ..... ,be and is hereby authorized to take all the steps required to be taken by the Company, including in particular, signing the said Undertaking, submitting the same to the BPC through .....[Insert name of Bidding Company/Lead Member of the Consortium] of all the related documents, certified copy of this Board resolution or letter, undertakings etc, required to be submitted to BPC as part of the Bid or such other documents as may be necessary in this regard.

Certified True Copy

Company rubber stamp to be affixed

Note:

1. This certified true copy should be submitted on the letterhead of the Company, signed by the Company Secretary or any Whole-time Director/Manager (supported by a specific board resolution) of Bidding Company or Lead Member of the Consortium.

2. The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution.

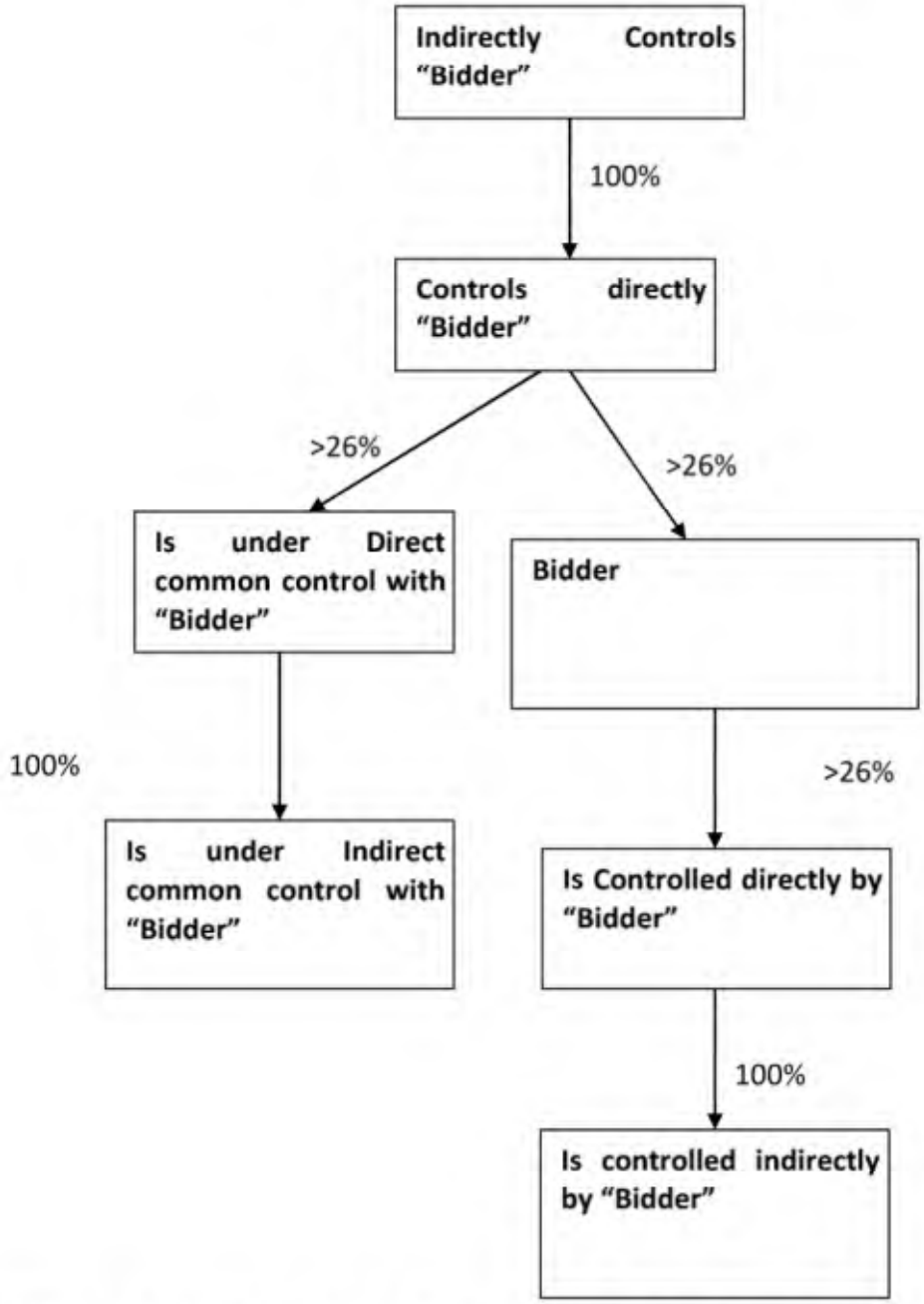
2. This format may be modified only to the limited extent required to comply with the local regulations and laws applicable to a foreign entity submitting this resolution. For example, reference to Companies Act 1956 / Companies Act 2013 (as the case may be) may be suitably modified to refer to the law applicable to the entity submitting the resolution. However, in such case, the foreign entity shall submit an unqualified opinion issued by the legal counsel of such foreign entity, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.

ANNEXURE 11A – ILLUSTRATION FOR APPLICABLE BOARD RESOLUTION REQUIREMENTS UNDER CLAUSE 2.5.2

Investor in the TSP	Entities (other than Bidder) whose credentials (financial and/or technical) used by the Bidder for meeting RFP criteria	Applicable Board Resolutions	Requirement of Undertaking (Annexure 10)
Bidder himself for 100% equity	None	a) Format 1 of Annexure 11 - Resolution: 1, 2 and 4 from the Bidder	None
Bidder himself for 100% equity	Affiliate and/or Parent Company and/or Ultimate Parent	a) Format 1 of Annexure 11 - Resolution: 1, 2, and 4 from the Bidder b) Format 2 of Annexure 11 by either Technically/ Financially Evaluated Entity(ies) whose credentials have been used, or Ultimate Parent. Provided, if the Bidder himself is the Ultimate Parent, then Format 2 need not be provided.	Yes, by either Technically / Financially Evaluated Entity(ies) Affiliate(s) whose credentials have been used, or Ultimate Parent. Provided, if the Bidder himself is the Ultimate Parent, then the undertaking need not be provided.
Bidder himself + others (Affiliate and/or Parent Company and/or Ultimate Parent) in aggregate holding 100% equity	None	a) Format 1 of Annexure 11 - Resolution: 1,2, 3 and 4 from the Bidder. b) Format 1 of Annexure 11 - Resolution: 1 from the Affiliate and /or Parent and /or Ultimate Parent investing in the equity	None
Bidder himself + others (Affiliate and/or Parent Company and/or Ultimate Parent) in	Affiliate and/or Parent Company and/or Ultimate Parent	a) Format 1 of Annexure 11 - Resolution: 1,2, 3 and 4 from the Bidder.	Yes, by either Parent/ Affiliate(s) whose credentials have been used, or Ultimate Parent

Investor in the TSP	Entities (other than Bidder) whose credentials (financial and/or technical) used by the Bidder for meeting RFP criteria	Applicable Board Resolutions	Requirement of Undertaking (Annexure 10)
Aggregate holding 100% equity		b) Format 1 of Annexure 11 - Resolution: 1 from the Affiliate and/or Parent and/or Ultimate Parent investing in the equity c) Format 2 of Annexure 11 by either Parent / Affiliate(s) whose credentials have been used and /or Ultimate Parent investing in the equity	

ANNEXURE 12 - FORMAT FOR ILLUSTRATION OF AFFILIATES



NOTE: **Bidder to provide the illustration, as applicable in their case, duly certified by the Company Secretary and supported by documentary evidence in this regard.**

ANNEXURE 13 - FORMAT FOR DISCLOSURE

[On the letter head of Bidding Company / Each Member in a Bidding Consortium]

Date: ……

DISCLOSURE

We hereby declare that the following companies with which we/ have direct or indirect relationship are also separately participating in this Bid process as per following details

S. No.	Name of the Company	Relationship
1.		
2.		
3.		

In case there is no such company please fill in the column "name of the company" as Nil.

Further we confirm that we don't have any Conflict of Interest with any other company participating in this bid process.

Certified as True

…….
(Signature)

Name: .....

Signature & Name of authorized signatory of the Company and Stamp

The above disclosure should be signed and certified as true by the authorized signatory of the Bidding Company or of the Member, in case of a Consortium).

ANNEXURE 14 - FORMAT OF THE BID BOND

FORMAT OF THE UNCONDITIONAL AND IRREVOCABLE BANK GUARANTEE FOR BID BOND

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

In consideration of the .....[Insert name of the Bidder] submitting the Bid inter alia for establishing the Inter-State transmission system for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** on build, own, operate and transfer basis, in response to the RFP dated **May 05, 2025** issued by PFC Consulting Limited, and the Bid Process Coordinator (hereinafter referred to as BPC) agreeing to consider such Bid of ..... [Insert the name of the Bidder] as per the terms of the RFP, the [Insert name and address of the bank issuing the Bid Bond, and address of the Head Office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to PFC Consulting Limited or its authorized representative at _____[Address of BPC] forthwith on demand in writing from PFC Consulting Limited or any representative authorized by it in this behalf, any amount up to and not exceeding Rupees_____ Only (Rs _____ Crore),on behalf of M/s.....[Insert name of the Bidder].

This guarantee shall be valid and binding on the Guarantor Bank up to and including ..... [Date to be inserted on the basis of Clause 2.11 of this RFP] and shall not be terminable by notice or any change in the constitution of the Guarantor Bank or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between concerned parties.

Our liability under this Guarantee is restricted to Rupees _____ Only (Rs ____ Crore). Our Guarantee shall remain in force until ..... [Date to be inserted on the basis of Clause 2.11 of this RFP]. PFC Consulting Limited or its authorized representative shall be entitled to invoke this Guarantee until ..... [Insert Date, which is three sixty-five days (365) days after the date in the preceding sentence]. The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from PFC Consulting Limited or its authorized representative, made in any format, raised at the above-mentioned address of the Guarantor Bank, in order to make the said payment to PFC Consulting Limited or its authorized representative.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection, disputes, or disparities raised by the Bidder or any other person. The Guarantor Bank shall not require PFC Consulting Limited or its authorized representative to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against PFC Consulting Limited or its authorized representative in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly PFC Consulting Limited or its authorized representative shall not be obliged before enforcing this BANK

GUARANTEE to take any action in any court or arbitral proceedings against the Bidder, to make any claim against or any demand on the Bidder or to give any notice to the Bidder to enforce any security held by PFC Consulting Limited or its authorized representative or to exercise, levy or enforce any distress, diligence or other process against the Bidder.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rupees _____ Only (Rs ____ Crore) and it shall remain in force until …… [Date to be inserted on the basis of Clause 2.11 of RFP], with an additional claim period of three hundred sixty-five (365) days thereafter. We are liable to pay the guaranteed amount or any part thereof under this BANK GUARANTEE only if PFC Consulting Limited or its authorized representative serves upon us a written claim or demand.

In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this…….. day of .....at……

Witness:

1……. Signature: ……
Name and Address Name: ……..

2. …….. Designation with Stamp:
Name and Address

Signature ……..

Attorney as per power of attorney
No……

For:
…… [Insert Name of the Bank]

Banker's Stamp and Full Address:

Dated this …… day of ……. 20……..

Notes:
The Stamp Paper should be in the name of the Executing Bank.

ANNEXURE 15 - FORMAT FOR CONTRACT PERFORMANCE GUARANTEE

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign entities submitting Bids are required to follow the applicable law in their country)

In consideration of the …… [Insert name of the SPV or Selected Bidder on behalf of SPV or Lead Member in case of the Consortium, with address] agreeing to undertake the obligations under the Transmission Service Agreement dated …… and the other RFP Project Documents and the Nodal Agency and PFC Consulting Limited, agreeing to execute the RFP Project Documents with the Selected Bidder, regarding setting up the Project, the……[Insert name and address of the bank issuing the guarantee and address of the head office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to the Nodal Agency at…… [Insert Place and Address of the Nodal Agency indicated in TSA] forthwith on demand in writing from the Nodal Agency or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees……Crores (Rs……..) only [Insert the amount of the bank guarantee] on behalf of M/s…… [Insert name of the Selected Bidder / SPV].

This guarantee shall be valid and binding on the Guarantor Bank up to and including ……and shall not be terminable by notice or any change in the constitution of the Bank or the term of the Transmission Service Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rupees ……. Crores (Rs……) only. Our Guarantee shall remain in force until…… [Insert the date of validity of the Guarantee as per Clause 2.12.1 of the RFP]. The Nodal Agency shall be entitled to invoke this Guarantee up to three hundred sixty five (365) days of the last date of the validity of this Guarantee.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from the Nodal Agency, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to the Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by **(SPV UNDER INCORPORATION)**, …… [Insert name of the Selected Bidder], …… [Insert name of the TSP] and/or any other person. The Guarantor Bank shall not require the Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against the Nodal Agency in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly the Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against **(SPV UNDER INCORPORATION)** or the Selected Bidder, to make any claim against or any demand on **(SPV UNDER INCORPORATION)** or the Selected Bidder, as the case may be, or to give any notice to **(SPV UNDER INCORPORATION)** or the Selected Bidder, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any

distress, diligence or other process against **(SPV UNDER INCORPORATION)** or the Selected Bidder, as the case may be.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to the Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that the Nodal Agency shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rupees ……..Crore (Rs ……..) only and it shall remain in force until [Date to be inserted on the basis of Article 3.1.2 of TSA], with an additional claim period of three hundred sixty five (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by…… [Insert name of the Selected Bidder or Lead Member in case of the Consortium or SPV]. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if the Nodal Agency serves upon us a written claim or demand.

In witness where of:

Signature……

Name: ……

Power of attorney No.: ……..

For:

…… [Insert Name of the Bank]

Banker's Seal and Full Address, including mailing address of the Head Office

Notes:

1. The Stamp Paper should be in the name of the Executing Bank.

ANNEXURE 16 – FORMAT OF CHECKLIST FOR TECHNICAL BID SUBMISSION REQUIREMENTS

[This format needs to be duly filled in, signed by the authorized signatory of the Bidder (Bidding Company / Lead Member in case of a Bidding Consortium) and submitted along with the Bidder's Technical Bid]

Technical Bid Submission Requirements	Response (Yes / No)
1. Format for the Covering Letter on the letterhead of Bidding Company or Lead Member of the Consortium, as applicable; 2. Format for Letter of Consent from each Consortium Member, including Lead Member, on their respective letterheads; 3. Format for evidence of authorized signatory's authority; 4. Board resolution from the Bidding Company / Lead Member of the Consortium in favour of the person executing the Power of Attorney as per Annexure 3; 5. Power of Attorney from each Consortium Member in favour of Lead Member to be provided by each of the other Members of the Consortium as per Annexure 4; 6. Board Resolution from each Member of the Consortium, other than the Lead Member, in favour of their respective authorized representatives for executing the POA, Consortium Agreement and signing of the requisite formats; 7. Format for Bidder's composition and ownership structure, along with status of equity holding (owning ten percent or more of the total paid up equity) not earlier than thirty (30) days prior to the Bid Deadline as per Annexure 5; 8. Consortium Agreement duly signed as per Annexure 6, along with Appendix-1, indicating the responsibilities and obligations of each Member of the Consortium; 9. Format for Qualification Requirement: a. Calculation sheets, detailing computation of Networth considered for meeting Qualifying Requirements, duly signed and stamped by the Statutory Auditor of the Bidding Company / each Member in case of a Bidding Consortium / FEE in cases where credentials of FEE are taken; b. Calculation sheets, detailing computation of capital expenditure of projects and revenue received in construction projects considered for meeting Qualification Requirements, duly signed and stamped by the Statutory Auditor of the Bidding Company / Lead Member in case of Bidding Consortium / TEE in cases where credentials of TEE are taken;	
c. Last financial year unconsolidated / consolidated audited annual accounts / statements, as the case may be, of the Financially Evaluated Entity / Technical Evaluated Entity d. Unconsolidated audited annual accounts of both the TEE and the	

	Technical Bid Submission Requirements	Response (Yes / No)
	Bidding Company/Lead member, as applicable, from the financial years in which financial closure was achieved till the financial year in which the said project was completed / commissioned.	
10.	Copy of the Memorandum and Articles of Association and certificate of incorporation or other organizational document (as applicable), including their amendments, certified by the Company Secretary of Bidding Company or each Member in case of a Consortium including Lead Member.	
11.	Attachment of Annexure 7(D), detailing projects completed / commissioned and for which commercial operation has commenced including Executive Summary for each project.	
12.	For each project listed in the attachment above, certified true copy of the certificates of final acceptance and / or certificates of good operating performance duly issued by owners or clients for the project, duly signed by authorized signatory in support of technical capability as defined in Clause 2.1.2 of RFP.	
13.	Authority letter in favour of BPC from the Bidder/every Member of the Consortium authorizing the BPC to seek reference from their respective bankers & others.	
14.	Authorization from Parent / Affiliate of Bidding Company / Member of Bidding Consortium whose technical / financial capability has been used by the Bidding Company / Member of Bidding Consortium.	
15.	Initialing of all pages of Technical Bid by the Authorized Signatory in whose favour the POA (Annexure 3) has been executed.	
16.	Format for Illustration of Affiliates at the most seven (7) days prior to the Bid Deadline, duly certified by Company Secretary and supported by documentary evidence.	
17.	Certified copy of the Register of Members / Demat Account Statement, Share Certificate, Annual Return filed with ROC etc. submitted as documentary evidence along with Annexure 12.	
18.	Format for Disclosure by Bidding Company / each Member of the Consortium.	
19.	Format for Affidavit by the Bidding Company / each Member of the Consortium	
20.	Format for Authorization submitted in Non-Judicial stamp paper duly notarized.	
21.	Bidders Undertaking and details of Equity Investment	
22.	Proof of Payment of RFP Fees	
23.	Bid Bond	
24.	Board Resolution as per Annexure 11 (If required)	

[**Note:** The checklist is not exhaustive. Bidders are required to submit all the information/documents as per requirement of RFP]

For and on behalf of Bidder

M/s. …….

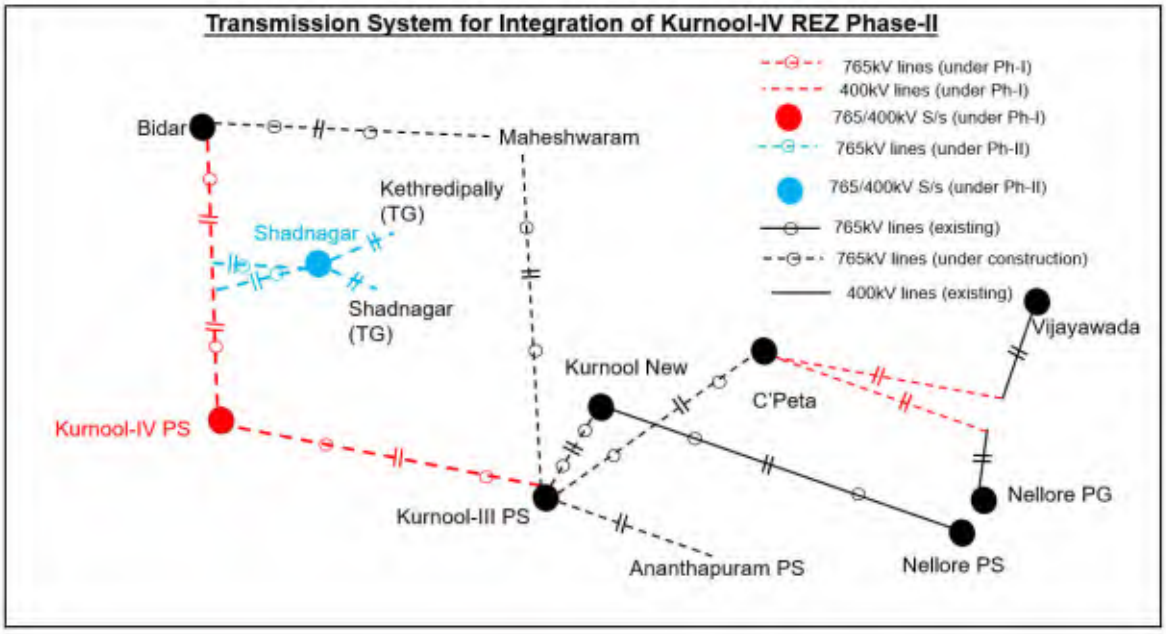
……..
(Signature of authorized signatory)

ANNEXURE 17 – LIST OF BANKS

The list of banks shall include all Scheduled Commercial Banks as per Second Schedule of RBI Act-1934 and any amendments thereof.

Note:
The above list of banks is indicative and can be modified by the BPC as required and any such change shall not be construed as a deviation from this document.

ANNEXURE 18 - GRID MAP OF THE PROJECT,



ANNEXURE 19 - FORMAT FOR CLARIFICATIONS / AMENDMENTS ON THE RFP / RFP PROJECT DOCUMENTS

S. No.	Name of the Document	Clause No. and Existing provision	Clarification required	Suggested text for the amendment	Rationale for the Clarification or Amendment

Signature ……

Name……..

For

Bidder's Rubber Stamp and Full Address.

(Note: This format shall be used for submission of requests for clarifications/ amendments on the draft RFP Project Documents as per the provisions of Clause 2.3.1)

ANNEXURE 20 - LIST FOR RFP PROJECT DOCUMENTS

ENCLOSURE 1: **TRANSMISSION SERVICE AGREEMENT (Provided separately)**

ENCLOSURE 2: **SHARE PURCHASE AGREEMENT (Provided Separately)**

……..

ANNEXURE 21 - FORMAT FOR FINANCIAL BID

[To be uploaded online]

Quoted Transmission Charges …….

Notes

1. The Bidders are required to ensure compliance with the provisions of Clause 2.5.3 of this RFP.
2. Quotes to be in Rupees Millions and shall be up to two (2) decimal points.
3. The contents of this format shall be clearly typed.
4. The Financial Bid shall be digitally signed by the authorized signatory in whose name power of attorney as per Clause 2.5.2 is issued.
5. Ensure only one value for annual Transmission Charges is quoted. The same charge shall be payable every year to TSP for the term of TSA.

ANNEXURE 22 – FORMAT FOR AFFIDAVIT

[On non-judicial stamp paper. Foreign companies submitting bids are required to follow the applicable law in their country]

AFFIDAVIT

We [including any of our Affiliate and Consortium Member & any of its Affiliate], hereby declare that as on Bid Deadline:

a. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate, their directors or key personnel have not been barred or included in the blacklist by any government agency or authority in India, the government of the jurisdiction of the Bidder or Members where they are incorporated or the jurisdiction of their principal place of business, any international financial institution such as the World Bank Group, Asian Development Bank, African Development Bank, Inter-American Development Bank, Asian Infrastructure Investment Bank etc. or the United Nations or any of its agencies; or

b. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate or their directors have not been convicted of any offence in India or abroad.

We further declare that following investigations are pending / no investigation is pending [strike off whichever is not applicable] against us [including any of our Consortium Member or Affiliate or Parent or Ultimate Parent or Affiliate] or CEO or any of our directors/ manager/key managerial personnel of the Applicant /Consortium Member or their Affiliates.

We further undertake to inform the BPC of any such matter as mentioned above on its occurrence after the date of this affidavit till the Effective Date.

We undertake that, in case, any information provided in relation to this affidavit is found incorrect at any time hereafter, our BID / Letter of Intent / contract (if entered) would stand rejected / recalled / terminated, as the case may be.

…….
Signature and Name of the authorized signatory of the Bidding Company / Lead Member of the Bidding Consortium

……..
(Signature of Notary Public)

Place: ……
Date: ……

Note: In case any investigation is pending against the Applicant, including any Consortium Member or Affiliate, or CEO or any of the directors/ manager/key managerial personnel of the Applicant

/Consortium /Member or their Affiliates, full details of such investigation including the name of the investigating agency, the charge/offence for which the investigation has been launched, name and designation of persons against whom the investigation has been launched and other relevant information should be disclosed under this affidavit.

ANNEXURE A
Technical Details with respect to electronic bidding

Registration Methodology

In order to submit online bids in the e-bidding process for selection of Transmission Service Provider, interested Bidders are required to register themselves with the e-procurement website of MSTC limited namely www.mstcecommerce.com/eprochome/tsp/index.jsp. To register with the website, the Bidder is required to fill up the online form available under the link Register as Vendor in the above website and fill up the same and click on Submit.

During this process, the Bidder shall create his user id and password and keep note of the same. The Bidder shall ensure that the secrecy of his user id and password is maintained at all time and he/she shall alone be responsible for any misuse of the user id and password.

The Bidder may check the details entered by it before final submission. On successful submission of the online registration Form, the Bidder shall receive a confirmation mail in the registered email address advising the Bidder to submit the following documents.

i. Self-attested Income Tax PAN Card. In case of a registered Company or Firm, the Firm's PAN card and in case of a proprietorship firm, proprietor's personal PAN card is required. In case of partnership firm, PAN of the firm and that of the authorized partner are to be submitted.

ii. Copy of the confirmation email Letter received from MSTC after successful completion of on-line registration.

iii. A non-refundable registration fee of Rs.10,000/- plus GST as per applicable rate to be paid online. The account details will be available in the System generated email sent by MSTC post registration.

Please provide details of payment made like UTR No, remitting bank name, date of payment and amount in the covering letter.

The Bidder shall have to submit all the above documents to MSTC Limited for verification and activation of their login ids. The Bidders should send scanned copies of the above documents to the designated email id only which is given below.

tsp@mstcindia.co.in

It may be noted that Bidders need not visit any of the offices of MSTC Limited for submission of the documents.

Contact persons of MSTC Limited:

Ms. Rupali
9458704037

Mr. Setu Dutt Sharma
7878055855

Once the complete set of documents and requisite registration fee are received from a Bidder, MSTC shall activate the Bidder's login after verification / scrutiny of the documents. MSTC Limited reserves the right to call for additional documents from the Bidder if needed and the Bidder shall be obliged to submit the same.

On completion of the above stated registration process, a Bidder shall be able to login to MSTC's website.

ANNEXURE B
Draft Pre-Award Integrity Pact

GENERAL

This pre-bid contract Agreement (herein after called the Integrity Pact) is made on …….. day of the month of …….. 20……., between, on one hand, …….. [Insert name of BPC] through Shri …….. [Insert Name & designation of representative of BPC] (hereinafter called the "Bid Process Coordinator/ BPC", which expression shall mean and include, unless the context otherwise requires, his successors in the office and assigns) of the First Part and M/s …….. represented by Shri …….. [Insert Name & Designation of Authorized Signatory of the Bidder/ Lead Member of Consortium] (hereinafter called the "Bidder" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BPC is conducting the bidding process for selection of bidder as Transmission Service Provider (TSP) for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"**, who will be responsible to set up the transmission project on build, own, operate and transfer (BOOT) basis and to provide Transmission Service.

WHEREAS the Bidder is a Private Company/Public Company/Government Undertaking/ Partnership, constituted in accordance with the relevant law in the matter and the BPC is a Public Sector Undertaking (PSU) performing its function on behalf of the Ministry of Power, Government of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings during the complete bidding process with a view to: -

Enabling the BPC to select the bidder as TSP in conformity with the defined procedures by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling Bidder to abstain from bribing or indulging in any corrupt practice in order to emerge as selected bidder by providing assurance to them that their competitors will also abstain from bribing and other practices and the BPC will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of BPC

1.1 The BPC undertakes that no official of the BPC, connected directly or indirectly with the bidding process, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial

benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the bidding process in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

1.2 The BPC will, during the bidding stage, treat all bidders alike, and will provide to all bidders the same information and will not provide any such information to any particular bidder which could afford an advantage to that particular bidder in comparison to the other bidders.

1.3 All the officials of the BPC will report the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2. In case of any such preceding misconduct on the part of such official(s) is reported by the Bidder to the BPC with the full and verifiable facts and the same is *prima facie* found to be correct by the BPC, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BPC and such a person shall be debarred from further dealings related to the bidding process. In such a case while an enquiry is being conducted by the BPC the proceedings under the bidding process would not be stalled.

Commitments of Bidder

3. The Bidder commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre award stage in order to emerge as Selected Bidder or in furtherance to secure it and in particular commits itself to the following: -

3.1 The Bidder will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BPC, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the bidding process in exchange for any advantage in the bidding, evaluation, contracting and implementation of the bidding process.

3.2 The Bidder further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BPC or otherwise in bidding process or for bearing to do or having done any act in relation to bidding process or any other contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the bidding process or any other contract with the Government.

3.3 The Bidder shall disclose the name and address of agents and representatives and Indian Bidder shall disclose their foreign principals or associates.

3.4 The Bidder shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid.

3.5 The Bidder further confirms and declares to the BPC that the Bidder has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BPC or any of its functionaries, whether officially or unofficially for selection of Bidder as TSP, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

3.6 The Bidder, either while presenting the bid or during pre-award negotiations or before signing the Share Purchase Agreement, shall disclose any payments he has made, is committed to or intends to make to officials of the BPC or their family members, agents, brokers or any other intermediaries in connection with the bidding process and the details of services agreed upon for such payments.

3.7 The Bidder will not collude with other parties interested in the bidding process to impair the transparency, fairness and progress of the bidding process.

3.8 The Bidder will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

3.9 The Bidder shall not use improperly, for purpose of competition or personal gain, or pass on to others, any information provided by the BPC as part of the business relationship, regarding plans, technical proposal and business details, including information contained in any electronic data carrier. The Bidder also undertakes to exercise due and adequate care lest any such information is divulged.

3.10 The Bidder commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

3.11 The Bidder shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

3.12 The Bidder shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BPC.

4. Previous Transgression

4.1 The Bidder declares that no previous transgression occurred in the last three years

immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify Bidder's exclusion from the bidding process.

4.2 The Bidder agrees that if it makes incorrect statement on this subject, Bidder can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. **Bid Bond (Security Deposit)**

5.1 Along with the technical bid, the Bidder shall submit Bid Bond for an amount of **Rs.43.40 Crore (Rupees Forty Three Crore Forty Lakh Only)** issued by any Banks from the list provided in RFP Document] as Earnest Money/Security Deposit, with the BPC.

5.2 The Earnest Money/Security Deposit shall be valid & retained by the BPC for such period as specified in the RFP Document.

5.3 No interest shall be payable by the BPC to the Bidder on Earnest Money/Security Deposit for the period of its currency.

6. **Sanctions for Violations**

6.1 Any breach of the aforesaid provisions by the Bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder) shall entitle the BPC to take all or anyone of the following actions, wherever required:-

(i) To immediately call off the pre-award negotiations without assigning any reason or giving any compensation to the Bidder. However, the proceedings with the other Bidder (s) would continue.

(ii) The Bid Bond (in pre-award stage) shall stand forfeited either fully or partially, as decided by the BPC and the BPC shall not be required to assign any reason therefore.

(iii) To immediately cancel the award, if already awarded, without giving any compensation to the Bidder.

(iv) To cancel all or any other contracts with the Bidder. The Bidder shall be liable to pay compensation for any loss or damage to the BPC resulting from such cancellation/rescission.-

(v) To debar the Bidder from participation in any tender or RFP issued by any BPC for an indefinite period.

(vi) To recover all sums paid in violation of this Pact by Bidder to any middleman or agent or broker with a view to securing the award.

6.2 The BPC will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (vi) of this Pact also on the Commission by the Bidder or anyone employed by it or acting on its behalf (whether with or without the knowledge of the Bidder), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of the BPC to the effect that a breach of the provisions of this Pact has been committed by the Bidder shall be final and conclusive on the Bidder. However, the Bidder can approach the Independent Monitor(s) appointed for the purposes of this Pact.

7. **Independent Monitors**

7.1 The BPC has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission (Names and Addresses of the Monitors to be given).

Shri Sanjiv Garg IRTS (Retd.)
A-14/1, Vasant Vihar, New Delhi-110057
Mob No – 9818798390
Email ID- sanjivgarg.iem@gmail.com

Shri Jeyakodi Virusankulam Kumarasamy, IAS (Retd.)
R/o 3F, Orchid Villa, 6" Avenue,
Harrington Road, Chetpet,
Chennai-600031
Mob No – 9176699444
Email ID- jeyakodivk@gmail.com

7.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

7.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

7.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.

7.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BPC.

7.6 The Bidder accepts that the Monitors has the right to access without restriction to all Project documentation of the BPC including that provided by the Bidder. The Monitor shall be under

contractual obligation to treat the information and documents of the Bidder /Subcontractors(s) with confidentially. [As all the bid documents are with BPC only]

7.7 The BPC will provide to the Monitors sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the monitor the option to participate in such meetings.

7.8 The Monitor will submit a written report to the designated Authority of the BPC/Secretary in the Department within 8 to 10 weeks from the date of reference or intimation to him by the BPC / Bidder and, should the occasion arise, submit proposals for correcting problematic situations.

8. **Facilitation of Investigation**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BPC or its agencies shall be entitled to examine all the documents including the Books of Accounts of the Bidder and the Bidder shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

9. **Law and Place of Jurisdiction**

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BPC.

10. **Other Legal Actions**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the any extent law in force relating to any civil or criminal proceedings.

11. **Validity**

11.1 The validity of this Integrity Pact shall be from date of its signing and up to 6 months from the date of transfer of project specific SPV i.e., signing of Share Purchase Agreement with BPC. In case Bidder is unsuccessful, this Integrity Pact shall expire after 15 days from the date of transfer of project specific SPV to successful bidder.

11.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

12. The Parties hereby sign this Integrity Pact at _____on

ANNEXURE-C

LOCATION DETAILS OF EXISTING / PLANNED SUBSTATIONS

a) 765/400kV Shadnagar SS: New substation which is to be implemented under present scheme

b) Kurnool IV 765/400/220 kV PS: Co-ordinates are yet to be finalised by the developer.

c) Shadnagar (TGTRANSCO) S/s: To be provided separately.

d) Kethiredipally (TGTRANSCO) S/s: To be provided separately.

Note: *The above coordinates/location of substation indicated is approximate in the substation area. Exact coordinates for the corresponding bays/gantry for termination of the respective line may be verified and finalized in coordination with actual site.*

SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE

The design, routing and construction of transmission lines shall be in accordance with Chapter V, Part A of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time. Other CEA Regulations/ guidelines as amended up to date and Ministry of Power (MoP guidelines, as applicable, shall also be followed.

A.1.0 Selection of tower type shall be made as per CEA Regulations, however, in case lattice type towers are used, the following shall also be applicable:

A.2.0 Steel section of grade E 250 and/or grade E 350 as per IS 2062, only are permitted for use in towers, extensions, gantry structures and stub setting templates. For towers in snowbound areas, steel sections shall conform to Grade-C of IS-2062.

A.3.0 Towers shall be designed as per IS-802:2015, however the drag coefficient of the tower shall be as follows: -

Solidity Ratio	Drag Coefficient
Up to 0.05	3.6
0.1	3.4
0.2	2.9
0.3	2.5
0.4	2.2
0.5 and above	2.0

A.4.0 Transmission Service Provider (TSP) shall adopt any additional loading/ design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.

A.5.0 Transmission line shall be designed considering wind zones as specified in wind map given in National Building Code 2016, Vol.1. The developer shall also make his own assessment of local wind conditions and frequent occurrences of High Intensity Winds (HIW) due to thunderstorms, dust storms, downburst etc. along the line route and wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring reliability of line. Further, for transmission line sections passing within a distance of 50 km from the boundary of two wind zones, higher of the two wind zones shall be considered for design of towers located in such sections.

A.6.0 Selection of reliability level for design of tower shall be as per CEA Regulation (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

A.7.0

a) In case of construction of transmission line of Voltage level 400 kV and above, under crossing of the existing transmission line shall not be allowed. In the case where it is inevitable to under-cross the existing transmission line then TSP shall seek prior approval from Chief Electrical Inspector, CEA with detailed study ensuring that all statutory electrical clearances and Electric Field limit of 10 kV/m at 1 m and 1.8 m from ground level is not violated.

b) For power line crossing of 400 kV or above voltage level, large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing.

c) For power line crossing of 132 kV and 220 kV (or 230 kV) voltage level, angle towers (B/C/D/DB/DC/DD/ QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

d) For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

e) For crossing of railway tracks, national highways and state highways, the rules/ regulations of appropriate authorities shall be followed.

A.8.0 The relevant conductor configuration shall be as follows: -

A. For LILO of Kurnool-IV – Bidar 765 kV D/C line at Shadnagar

Type of conductor: ACSR / AAAC / AL59

Basic Parameters:

Transmission line	**ACSR Conductor specified**	**Equivalent AAAC conductor based on 53.5% conductivity of Al Alloy**	**Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy***	**Sub-conductor Spacing**
765 kV D/C (Hexa Bundle) Transmission Lines	**Zebra : Stranding** 54/3.18 mm-Al + 7/3.18 mm-Steel, 428 mm^2, Aluminium area, 28.62 mm diameter Maximum DC Resistance at 20°C (Ω/km): 0.06868 Minimum UTS: 130.32 kN	**Stranding details:** 61/3.19 mm, 487.5 mm^2 Aluminium alloy area 28.71 mm diameter Maximum DC Resistance at 20°C (Ω/km): 0.06815 Minimum UTS: 135.6 kN	**Stranding details:** 61/3.08 mm, 454 mm^2 Aluminium alloy area 27.72 mm diameter Maximum DC Resistance at 20°C (Ω/km): 0.0653 Minimum UTS: 108 kN	457 mm

B. For the following 400 kV lines:

i. Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/C line

ii. Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line

Type of conductor: ACSR / AAAC / AL59

Basic Parameters:

Transmission line	ACSR Conductor specified	EquivalentAAAC conductor based on 53%conductivity of Al Alloy	Equivalent minimun size of AL59 conducto based on 59% conductivity of A Alloy*	Sub-conductor Spacing
400 kV D/C (Quad Bundle) Transmission Lines	**Moose: Stranding** 54/3.53mm-Al + 7/3.53 mm- Steel, 31.77 mm diameter 528.5 mm^2 Aluminium area, Maximum DC Resistance at 20°C (Ω/km): 0.05552 Minimum UTS: 161.20 kN	**Stranding details** 61/3.55mm 31.95mm diameter; 604 mm^2 Aluminium alloy area Maximum DC Resistance at 20°C (Ω/km): 0.05506 Minimum UTS: 159.80 kN	**Stranding details** 61/3.31mm 29.79 mm diameter; 525 mm^2 Aluminium alloyarea Maximum DC Resistance at 20°C (Ω/km): 0.0566 Minimum UTS: 124.70 kN	457 mm

Note:

1. **To select any size above the minimum, the sizes mentioned in the Indian standard IS-398 (part-6) shall be followed.*
2. *The transmission lines shall have to be designed for a maximum operatingconductor temperature of 85 ^{O}C.*

A.9.0 The required phase to phase spacing and horizontal spacing for 765 kV and 400 kV line(s) shall be governed by the tower design as well as minimum live metal clearances for 765 kV and 400 kV voltage level under different insulator swing angles. However, the phase to phase spacing for 765 kV line shall not be less than 15 m and for 400 kV line shall not be less than 8 m.

A.10.0 All electrical clearances including minimum live metal clearance, ground clearance and minimum mid span separation between earth wire and conductor as given below shall be considered:

I. Minimum live metal clearances for 765 kV line:

a) (i) Under stationary conditions

From tower body: For 765 kV D/C: 6.1 m

For 765 kV S/C: 5.6 m

(ii) Under swing conditions

Wind Pressure Condition	Minimum Electrical Clearance
a) Swing angle (25º)	4.4 m
b) Swing angle (55º)	1.3 m

(iii) Minimum ground clearance for 765 kV line: 18 m

(iv) Minimum mid span separation between earth-wire and conductor for 765 kV line: 9.0 m

II. Minimum live metal clearances for 400 kV line:

(i) Under stationary conditions

From tower body: 3.05 m

(ii) Under swing conditions

Wind pressure Condition	Minimum electrical clearance
a) Swing angle (22º)	3.05 m
b) Swing angle (44º)	1.86 m

(iii) Minimum ground clearance for 400 kV line: 8.84 m

(iv) Minimum mid span separation between earth-wire and conductor for 400 kV line: 9.0 m

A.11.0 Shielding angle shall not exceed 10 deg for 765 kV D/C and 20 deg for 400 kV D/C Line transmission line.

A.12.0 The Fault current for design of line shall be 50 kA for 1 sec for 765 kV and 63 kA for 1 sec for 400 kV.

A.13.0 In case of 400 kV and above voltage class lines, at least one out of two earth wires shall be OPGW and second earth wire, if not OPGW, shall be either of Galvanized Stranded Steel (GSS) or Aluminum Alloy Conductor Steel Reinforced (AACSR) conductor type or any other suitable conductor type depending upon span length and other technical consideration.

A.14.0 Each tower shall be earthed such that tower footing impedance does not exceed 10 ohms. Pipe type or Counterpoise type earthing shall be provided in accordance with relevant IS. Additional earthing shall be provided on every 7 to 8 km distance for direct earthing of both shield wires. If site condition demands, multiple earthing or use of earthing enhancement compound shall be used.

A.15.0 Pile type foundation shall be used for towers located in river or creek bed or on bank of river having scourable strata or in areas where river flow or change in river course is anticipated, based on detailed soil investigation and previous years' maximum flood discharge of the river, maximum velocity of water, highest flood level, scour depth and anticipated change in course of river based on river morphology data of at least past 20 years to ensure availability and reliability of the transmission line.

A.16.0 Transmission line route shall be finalized, in consultation with appropriate authorities so as to avoid the habitant zones of endangered species and other protected species. Bird diverters, wherever required, shall be provided on the transmission line. In order to optimize the route, use of GATISHAKTI platform shall also be made.

A.17.0 Wherever, transmission lines are passing through cyclone prone areas i.e., areas up to 60 km from coast following shall also be applicable:

a) Terrain category-I, with terrain roughness factor (K2) of 1.08 shall be considered for tower design for exposed open terrain with few or no obstruction, which also includes open sea coasts, open stretch of water, desert and flat treeless plains.

b) Importance factor for cyclonic region (K4) of 1.3 shall be considered for tower design.

c) The number of consecutive spans between the section points/ angle point shall not exceed 10 spans or 3 km instead of conventional practice of 15 spans or 5 km, in order to reduce the failure of such towers in coastal areas due to cascading effect. The section shall be terminated with tension tower/ angle tower and angle of deviation should be based on the site requirement.

A.18.0 Wherever, transmission lines are passing through cyclone prone areas (i.e. areas up to 60 km from coast)/ creek regions/ aggressive soil areas following shall also be applicable:

a) The fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 g/m^2 of surface area except for plates and sections below 5 mm which shall have a minimum overall zinc coating of 610 g/m^2 of surface area. The average zinc coating for all sections and plates 5 mm and above shall be maintained as 127 microns and that for plates and sections below 5 mm shall be maintained as 87 microns.

b) Ready mix concrete of M30 Grade shall be used to avoid use of locally available saline water. However, design mix concrete of M30 Grade conforming to IS 456 with potable water can be used at locations where transportation of ready-mix concrete is not feasible. Minimum cement content in any case shall not be less than 330 kg/m^3.

c) The surface of the reinforced steel shall be treated with epoxy-based coating to enhance corrosion performance of foundation. Use of epoxy coated reinforcement in foundation shall be as per IS 13620. In addition, two (2) coats of bituminous painting of minimum 1.6 kg/m^2 per coat shall be applied on all exposed faces of foundation (i.e. pedestal and base slab).

d) Double coat 20 mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300 mm below ground level to give protection to concrete surface from environmental and saline effect.

e) Before coping of chimney top portion, three coats of anti-corrosive paint of minimum 30-35 microns dry film thickness each shall be applied on the stub in the 50 mm coping portion as well as up to 350 mm above CL portion.

A.19.0 The raised chimney foundation is to be provided in areas prone to flooding/water stagnation like paddy field /agricultural field and undulated areas to avoid direct contact of water with steel part of tower. The top of the chimney of foundation should be at least above HFL (High Flood

Level) or the historical water stagnation/ logging level (based on locally available data) or above High Tide Level or 500 mm above Natural Ground level (whichever is higher).

A.20.0 Routing of transmission line through protected areas of India shall be avoided to the extent possible. In case, it is not possible to avoid protected areas, the towers of the transmission line up to 400 kV level, which are installed in protected areas shall be designed for Multicircuit (4 circuits) configuration of same voltage level considering reliability level of at least two (2). The top two circuits of these multi-circuit towers shall be used for stringing of the transmission line under present scope and the bottom two circuits shall be made available for stringing of any future transmission line of any transmission service providers/ State transmission utilities/Central transmission utilities passing through the same protected area. Further, the configuration and coordinates of such transmission towers shall be submitted to CEA, CTU and BPC by the TSP.

A.21.0 The TSP shall abide by the Guidelines of CEA w.r.t. shifting of transmission lines for NHAI projects and other projects.

A.22.0 Safety precautions in regards to gas/oil pipelines in vicinity of Transmission lines shall be taken in coordination with gas/ petroleum authorities.

A.23.0 The stringing of the transmission line in forest area shall be carried out through drones.

A.24.0 The tower shall be designed considering the porcelain Insulators with creepage factor of 31 mm/ kV irrespective of type of insulator used.

A.25.0 RoW width and Span in different terrain shall be as per Schedule VII of CEA (Technical Standards for Construction of Electrical plants and Electric Lines) Regulations 2022 and RoW guidelines issued vide CEA-PS-14-86/2/2019-PSETD Division dated 24.09.2024.

SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION

The proposed Shadnagar S/s shall be conventional Air Insulated Substation (AIS) type conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, as amended from time to time.

Extension of Kurnool IV PS, Shadnagar (TGTRANSCO) S/s and Kethiredipally (TGTRANSCO) S/s shall be conventional AIS type conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

Other CEA Regulations/guidelines as amended up to date and MoP guidelines, as applicable, shall also be followed.

B.1.0 Salient features of Substation Equipment and Facilities

The design and specification of substation equipment are to be governed by the following factors:

B.1.1 Insulation Coordination

The system design parameters for substations/switchyards shall be as given below:

Sl. No.	**Description of parameters**	**765/400/220 kV Kurnool IV PS (AIS) Extn.**		
		765 kV System	**400 kV System**	**220 kV System**
1.	System Operating Voltage	765 kV	400 kV	220 kV
2.	Maximum voltage of the system (rms)	800 kV	420 kV	245 kV
3.	Rated Frequency	50 Hz	50 Hz	50 Hz
4.	No. of Phases	3	3	3
5.	Rated Insulation Levels			
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.) - for Equipment other than Transformer and Reactor - for Insulator String	 2100 kVp 2100 kVp	 1425 kVp 1550 kVp	 1050 kVp 1050 kVp
ii)	Switching Impulse withstand voltage (250/2500 micro sec.) dry and wet	1550 kVp	1050 kVp	--
iii)	One minute power frequency dry withstand voltage (rms)	830 kV	630 kV	--
iv)	One minute power frequency dry and wet withstand voltage (rms)	--	--	460 kV
6.	Corona Extinction Voltage	508 kV	320 kV	--
7.	Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz	2500 micro-volts at 508 kV rms	1000 micro-volts at 266 kV rms	1000 micro-volts at 156 kV rms

8.	Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings	24800 mm (31mm/kV)	13020 mm (31 mm/kV)	7595 mm (31 mm/kV)
9.	Minimum creepage distance for switchyard equipment	20000 mm (25 mm/kV)	10500 mm (25 mm/kV)	6125 mm (25 mm/kV)
10.	Max. Fault Current	50 kA	63 kA	50 kA
11.	Duration of Fault	1 sec	1 sec	1 sec

Sl. No.	**Description of parameters**	**765/400 Shadnagar S/s (AIS)**		**Shadnagar (TGTRANSCO) S/s (AIS) Extn.**	**Kethiredipally (TGTRANSCO) S/s (AIS) Exrtn.**
		765 kV System	**400 kV System**	**400 kV System**	**400 kV System**
1.	System Operating Voltage	765 kV	400 kV	400 kV	400 kV
2.	Maximum voltage of the system (rms)	800 kV	420 kV	420 kV	420 kV
3.	Rated Frequency	50 Hz	50 Hz	50 Hz	50 Hz
4.	No. of Phases	3	3	3	3
5.	Rated Insulation Levels				
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.) - for Equipment other than Transformer and Reactor - for Insulator String	2100 kVp 2100 kVp	1425 kVp 1550 kVp	1425 kVp 1550 kVp	1425 kVp 1550 kVp
ii)	Switching Impulse withstand voltage (250/2500 micro sec.) dry and wet	1550 kVp	1050 kVp	1050 kVp	1050 kVp
iii)	One minute power frequency dry withstand voltage (rms)	830 kV	630 kV	630 kV	630 kV
6.	Corona Extinction Voltage	508 kV	320 kV	320 kV	320 kV
7.	Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz	2500 micro-volts at 508 kV rms	1000 micro-volts at 266 kV rms	1000 micro-volts at 266 kV rms	1000 micro-volts at 266 kV rms

8.	Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings	24800 mm (31 mm/kV)	13020 mm (31 mm/kV)	13020 mm (31 mm/kV)	13020 mm (31 mm/kV)
9.	Minimum creepage distance for switchyard equipment	20000 mm (25 mm/kV)	10500 mm (25 mm/kV)	10500 mm (25 mm/kV)	10500 mm (25 mm/kV)
10.	Max. Fault Current	50 kA	63 kA	63 kA	63 kA
11.	Duration of Fault	1 sec	1 sec	1 sec	1 sec

B.1.2 Switching Scheme

The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:

Substation	765 kV side	400 kV side	220 kV side
765/400/220 kV Kurnool IV PS (AIS) Extn.	One and Half breaker	One and Half breaker	Double Main and Transfer
765/400 kV Shadnagar S/s (AIS)	One and Half breaker	One and Half breaker	-----
Shadnagar (TGTRANSCO) S/s (AIS) Extn.	-----	One and Half breaker	-----
Kethiredipally (TGTRANSCO) S/s (AIS) Extn.	-----	One and Half breaker	-----

Notes: -

i) For one and half breaker switching scheme, any double circuit line consisting of two numbers of feeders and originating from the same transmission or generating switchyard shall not be terminated in one diameter.

ii) Two transformers of same HV rating shall not be connected in the same diameter and similarly two bus reactors of same HV rating shall also not be connected in the same diameter.

iii) A diameter in one and half breaker scheme is a set of 3 circuit breakers with associated isolators, earth switches, current transformers etc. for controlling 2 (two) numbers of feeders.

iv) Space for 765 kV and 400 kV future line bays shall be kept considering provision of switchable line reactors.

*v) **Provision for Bus sectionalizer:***

Space/provision for One (1) set of bus sectionalizer for 400 kV shall comprise Two (2) Nos. of bus sectionalizer bays with associated Circuit Breakers, Isolators and Current Transformers for both buses.

Space/provision for One (1) set of bus sectionalizer for 220 kV shall comprise Two (2) Nos. of bus sectionalizer bays with associated Circuit Breakers, Isolators and Current Transformers for both buses.

vi) TSP shall plan connectivity of line and transformer feeders to bus bar in such a way that all power can be evacuated successfully without crossing thermal limit at any point of bus-bar.

vii) For AIS type substation, TSP shall keep space provisions for future elements such that interconnection arrangement to the corresponding future bays can be done with overhead AIS type connection without any cable/ GIS duct.

viii) **765/400/220 kV Kurnool IV PS:**

- *400 kV Bus Sectionalization shall be with the following feeder distribution.*

400 kV Bus Section-1	***400 kV Bus Section-2***
a) 3 Nos. of existing 765/400 kV ICT *b) 3 Nos. of existing 400/220 kV ICT* *c) 1 No. of existing STATCOM* d) 5 Nos. of Present 400/220 kV ICT e) 2 No. of Present 400 kV Lines *f) 4 Nos. of Future 400 kV Lines (with provision for Switchable line reactor)*	*a) 1 No. existing of 765/400 kV ICT* *b) 1 Nos. of existing 400/220 kV ICT* c) 2 Nos. of Present 765/400 kV ICT d) 5 Nos. of Present 400/220 kV ICT *e) 4 Nos. of Future 400/220 kV ICT* *f) 6 Nos. of Future 400 kV Lines (with provision for Switchable line reactor)*

- *220 kV Bus Sectionalization shall be with the following feeder distribution.*

220 kV Bus Section-1	***220 kV Bus Section-2***
a) 3 Nos. of existing 400/220 kV ICT b) *5 Nos. of existing 220 kV Lines*	*a) 1 No. of existing 400/220 kV ICT* *b) 1 No. of existing 220 kV Line* c) 4 Nos. Present 220 kV Line. d) 3 Nos. Present 400/220 kV ICT.
220 kV Bus Section-3	***220 kV Bus Section-4***
a) 6 Nos. Present 400/220 kV ICT. b) 8 Nos. Present 220 kV Lines.	a) 1 Nos. Present 400/220 kV ICT. b) 1 Nos. Present 220 kV Line. *c) 4* Nos. *future 400/220 kV ICT.* *d) 7* Nos. *future 220 kV Lines.*

- *Line bays shall be complete along with line side equipment (such as LA, CVT, Wave Trap), gantry, protection panel etc. for termination of 400 kV and 220 kV lines for interconnection of RE Generation Projects.*

ix) **765/400 Shadnagar S/s (AIS)**

- *Provision of 400 kV Bus Sectionalization (Future) and space provision shall be with the following feeder distribution.*

400 kV Bus Section-1	***400 kV Bus Section-2 (Future)***
a) 4 Nos. of Present 765/400 kV ICT b) 4 Nos. of Present 400 kV Lines *c) 6 Nos. of Future 400/220 kV ICT* *d) 4 Nos. of Future 400 kV Lines (with provision for Switchable line reactor)*	*a) 2* Nos. *of Future 765/400 kV ICT* *b) 4* Nos. *of Future 400/220 kV ICT* *c) 4* Nos. *of Future 400 kV Lines (with provision for Switchable line reactor)*

- *TSP shall implement 400 kV bays keeping the space provision for providing 400 kV Bus Sectionalizer in future meeting the requirements of feeder distribution as mentioned above.*

x) In one and half breaker scheme, both main bay and tie bay shall be completed for controlling a feeder. Further, all associated interconnection work shall also be in the present scope of TSP.

B.2.0 Substation Equipment and Facilities (Voltage level as applicable):

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following capacity.

Sl. No	**Description of Bay**	**765/400/220 kV Kurnool IV PS**		
		765 kV	**400 kV**	**220 kV**
1.	Bus Bar	4000 A	4000 A	3000 A
2.	Line bay	N/A	3150 A	1600 A
3.	ICT bay	3150 A	3150 A	1600 A
4.	Bus Sectionaliser bay	N/A	4000 A	3000 A
5.	Bus Coupler Bay	N/A	N/A	3000 A
6.	Transfer Bus coupler bay	N/A	N/A	1600 A

Sl. No	**Description of Bay**	**765/400 kV Shadnagar S/s**		**Shadnagar (TGTRANSCO) S/s**	**Kethiredipally (TGTRANSCO) S/s**
		765 kV	**400 kV**	**400 kV**	**400 kV**
1.	Bus Bar	4000 A	4000 A	As per existing	As per existing
2.	Line bay	3150 A	3150 A	3150 A	3150 A
3.	ICT bay	3150 A	3150 A	N/A	N/A
4.	Reactor bay	3150 A	N/A	N/A	N/A

B.2.1 (765/√3)/(400/√3)/33 kV, Single Phase Autotransformer

500 MVA, (765/√3)/ (400/√3)/ 33 kV, 1-phase autotransformer (including arrangement for 3-

phase bank formation of 1500 MVA) shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class)" as amended up to date available on CEA's website.

Spare 1-phase Transformer unit shall be placed and connected in such a way that the spare unit can be utilized to replace in case of fault in any unit of any of the transformer banks (including for future transformer banks) without physically moving it.

Connection arrangement for utilization of existing Spare Single Phase Autotransformer unit: TSP shall make the arrangement of present ICT bank in such a way that the existing spare unit can be utilized for Transformer bank under present scope without its physical movement.

B.2.2 400/220/33 kV, 3-phase Autotransformer

500 MVA, 400/220/33 kV, 3-phase autotransformer shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class)" as amended up to date available on CEA's website.

B.2.3 (765/√3) kV, Single Phase Shunt Reactor

110 MVAr, 765/√3 kV, 1-Phase Reactor (including arrangement for 3-phase bank formation of 330 MVAr) shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above voltage class)" as amended up to date available on CEA's website.

Spare 1-phase Shunt Reactor unit shall be placed and connected in such a way that the spare unit can be utilized for all the bus and switchable line reactor banks (including for future reactor banks) without its physical movement.

B.2.4 765 kV, 400 kV and 220 kV AIS Substation equipment (as applicable)

B.2.4.1 Circuit Breakers (AIS)

The circuit breakers and accessories shall conform to IEC: 62271-100, IEC: 62271-1 and shall be of SF_6 Type. The circuit breakers shall be of class C2-M2 (as per IEC) with regard to restrike probability during capacitive current breaking and mechanical endurance. The rated break time shall not exceed 40 ms for 765 kV and 400 kV circuit breakers and 60 ms for 220 kV circuit breakers. The 765 kV, 400 kV and 220 kV circuit breakers shall be provided with single phase and three phase auto reclosing. Each breaker would have two sets of trip circuits, which would be connected to separate DC supplies for greater reliability. The circuit breakers controlling 765 kV lines shall be provided with either pre-insertion closing resistor of about 450 ohm maximum with 9 ms insertion time or with Controlled Switching Device. The Circuit breakers controlling 400 kV lines shall be provided with pre insertion closing resistor of about 400 ohm with 8 ms insertion time or with Controlled Switching Device (CSD) for lines longer than 200 km length. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors. The Controlled Switching Device shall be provided in circuit breakers of switchable line reactor bay and in Main and Tie bay circuit breakers of line with non-switchable line reactors, Bus Reactors and Transformers of 400 kV and above voltage class.

B.2.4.2 Isolators (AIS)

The Isolators shall comply with IEC 62271-102 in general. 765 kV Isolator design shall be double break or vertical break or knee-type. 400 kV and 220 kV Isolators shall be double break type. All Isolators and earth switches shall be motor operated. Earth switches shall be provided at various locations to facilitate maintenance. Isolator rated for 400 kV and 220 kV shall be of extended mechanical endurance class – M2 as per IEC-62271-102. Isolator rated for 220 kV shall be suitable for bus transfer current switching duty as per IEC-62271-102. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. The 765 kV, 400 kV and 220 kV earth switch for line isolator shall be suitable for induced current switching duty as defined for Class-B.

B.2.4.3 Current Transformers (AIS)

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) for 765 kV and 400 kV shall have six cores (four for protection and two for metering) and 220 kV Current Transformers shall have five cores (four for protection and one for metering). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for the protection core shall be PX and for the metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of the metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy. The instrument security factor shall be less than five (5) for CTs up to 400 kV and less than ten (10) for CTs of 765 kV voltage class.

B.2.4.4 Capacitive Voltage Transformers (AIS)

Capacitive Voltage Transformers shall comply with IEC 61869 in general. These shall have three secondaries out of which two shall be used for protection and one for metering. The accuracy class for protection cores shall be 3P and for metering core shall be 0.2. The Capacitive Voltage Transformers on lines shall be suitable for Carrier Coupling. The Capacitance of CVT for 400 kV and 220 kV shall be of 4400/8800 pF depending on PLCC requirements whereas the Capacitance of CVT for 765 kV shall be 8800 pF. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

B.2.4.5 Surge Arresters (AIS)

624 kV, 336 kV Station High (SH) duty and 216 kV Station Medium (SM) duty gapless type Surge Arresters with thermal energy (W_{th}) of minimum 13 kJ/kV, 12 kJ/kV and 7 kJ/kV conforming to IEC 60099-4 in general shall be provided for 800 kV, 420 kV and 245 kV systems respectively. Other characteristics of Surge Arrester shall be chosen in accordance with system requirements. Surge Arresters shall be provided at line entrances, near transformers and reactors so as to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

B.2.5 Protection Relaying and Control System

The protective relaying system proposed to be provided for transmission lines, auto-transformers, reactors and bus bars to minimize the damage to the equipment in the events of faults and abnormal conditions, is dealt in this section. All main protective relays shall be numerical type with IEC 61850 communication interface and should have interoperability during integration of numerical relays to communicate over IEC 61850 protocol with RTU/SAS/IEDs of different OEMs. All numerical relays shall have built in disturbance recording feature.

The protection circuits and relays of the transformer and reactor shall be electrically and physically segregated into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing, to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service.

a) Transmission Lines Protection

765 kV, 400 kV and 220 kV lines shall have Main-I numerical three zone distance protection scheme with carrier aided inter-tripping feature. 765 kV, 400 kV and 220 kV lines shall also have Main-II numerical distance protection scheme like Main-I but from different make that of Main-I. The Main-I and Main-II protection relays of same make may be provided only if they are of different hardware and manufacturing platform or different principle of operation.

However, Line Current Differential Relay (with back up distance protection feature) as Main–I and Main-II shall be considered at both ends for short lines (line length below 30 km) having Fiber Optic Communication Link. Differential relay at remote end shall be provided by the TSP. The associated power and control cabling and integration with SAS at remote end shall be provided by respective bay owners.

In case of 220 kV line bays for RE Generators, Line Current differential relay (with back up distance protection feature) as Main-I and Main-II shall be provided. Further, in such cases, the matching line current differential relay for remote end shall be provided by the TSP as loose supply.

In case of loop in loop out of transmission lines, the existing protection scheme shall be studied and suitable up-gradation (if required) shall be carried out.

Further, all 765 kV, 400 kV and 220 kV lines shall be provided with single and three phase auto-reclosing facility to allow reclosing of circuit breakers in case of transient faults. These lines shall also be provided with distance to fault locators to identify the location of fault on transmission lines.

All 765 kV, 400 kV and 220 kV lines shall also be provided with two stage over voltage protection. The over voltage protection and distance to fault locator may be provided as in-built feature of Main-I and Main-II protection relays. Auto reclose as built-in function of Bay Control Unit (BCU) is also acceptable.

The Main-I and Main-II protection relays shall be fed from separate DC sources and shall be mounted in separate panels.

For 765 kV, 400 kV and 220 kV transmission lines, directional IDMT earth fault relay should be

provided as standalone unit or in-built feature of Main-I and Main -II feature.

b) Auto Transformer Protection

These shall have the following protections:

i) Numerical Differential Protection

ii) Numerical Restricted Earth Fault Protection

iii) Numerical Back-up Over-Current and Earth Fault Protection on High Voltage (HV) and Intermediate Voltage (IV) side

iv) Numerical Over Fluxing Protection on HV and IV side

v) Numerical Overload Alarm

Further, Numerical Back-up Over-current and earth fault protection on HV and IV side of autotransformer shall not be combined with other protective functions in the main relays and shall be independent relays. Besides these, power transformers shall also be provided with Buchholz relay, Magnetic Oil Gauge (MOG) with low oil level alarm, protection against high oil and winding temperature and pressure relief device etc.

Suitable monitoring, control (operation of associated circuit breaker and isolator) and protection for LT auxiliary transformer connected to tertiary winding of auto-transformer for the purpose of auxiliary supply shall be provided. The over current and other necessary protection shall be provided for the auxiliary transformer. These protection and control may be provided as built-in feature either in the bay controller to be provided for the auxiliary system or in the control and protection IEDs to be provided for autotransformer.

c) 765 kV Reactor Protection

Reactor shall be provided with the following protections:

i) Numerical Differential Protection.

ii) Numerical Restricted Earth Fault Protection

iii) Numerical Back-up Impedance Protection

Besides these, reactors shall also be provided with Buchholz relay, Magnetic Oil Gauge (MOG) with low oil level alarm, protection against oil and winding temperatures and pressure relief device, etc.

d) Bus Bar Protection

The high-speed low impedance type bus bar differential protection, which is essential to minimize the damage and maintain system stability at the time of bus bar faults, shall be provided for 765 kV, 400 kV and 220 kV buses. Duplicated bus bar protection is envisaged for 765 kV and 400 kV bus-bar protection. Bus bar protection scheme shall be such that it operates selectively for each bus and incorporate necessary features required for ensuring security. The scheme shall have complete bus bar protection for present as well as envisaged future bays i.e. input / output modules for future bays for the bus section under present scope shall also be

provided.

Bus Bar protection system for new substation shall be de-centralized (distributed) type.

In case, the bus section is provided, then each side of bus section shall have separate set of bus bar protection schemes.

Peripheral Units (PUs) shall be provided by the respective bay owners.

For existing substations, the existing bus bar protection shall be augmented as per requirement. Separate set of bus bar protection schemes including necessary modification with respect to feeder distribution shall be provided where new bus sectionaliser is being implemented.

e) Local Breaker Back up Protection

This shall be provided for each 765 kV, 400 kV and 220 kV circuit breakers and will be connected to de-energize the affected stuck breaker from both sides.

Notes:

1. *LBB and REF relays shall be provided separately from transformer differential relay.*
2. *LBB relay may also be provided as built-in protection function of distributed bus bar protection scheme; however in such case separate LBB relay shall be provided for tie bays (in case of One and Half breaker scheme).*
3. *Over fluxing and overload protection can be provided as built-in feature of differential relay.*
4. *In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, Tie CB relay panel shall be with Auto-reclosure feature.*

B.2.6 Substation Automation System

a) For all the new substations, state of art Substation Automation System (SAS) conforming to IEC-61850 shall be provided. The distributed architecture shall be used for Substation Automation System, where the controls shall be provided through Bay Control Units. The Bay Control Unit is to be provided bay wise for voltage level 220 kV and above. All Bay Control Units as well as protection units are normally connected through an Optical fibre high speed network. The control and monitoring of circuit breaker, dis-connector, re-setting of relays etc. can be done from Human Machine Interface (HMI) from the Control Room.

The functions of control, annunciation, disturbance recording, event logging and measurement of electrical parameters shall be integrated in the Substation Automation System.

At the new substations, the Substation Automation System (SAS) shall be suitable for the operation and monitoring of the complete substation including proposed future bays/elements.

In the existing substations with a Substation Automation System (SAS), augmentation of existing SAS shall be done for bays under the present scope.

In the existing Substations where Substation automation is not provided, control functions shall be done through control panels.

Necessary gateway and modems (as required) shall be provided to send data to RLDC/SLDC as per their requirement and shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation. Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs. Any augmentation work at RLDC/SLDC is excluded from TSP's scope. However, all the configuration work at substation end required to send data to RLDC/SLDC shall be in the scope of TSP.

b) Time Synchronization Equipment

Time Synchronization Equipment complete in all respect including antenna, cable and processing equipment required to receive time signal through GPS/NavIC or from National Physical Laboratory (NPL) through INSAT shall be provided at new substations. This equipment shall be used to synchronize SAS and IEDs etc.

B.3.0 Substation Support Facilities

Certain facilities required for the operation and maintenance of substations as described below shall be provided at the new substation. In existing substation, these facilities have already been provided and will be extended/ augmented as per requirement.

B.3.1 AC and DC power supplies

For catering the requirements of three phase and single phase AC supply and DC supply for various substation equipment (for present and future scope), the following arrangement is envisaged:

i) For LT Supply at each new Substation, two (2) Nos. of LT Transformers (minimum 800 kVA for substations with highest voltage rating as 765 kV) shall be provided which shall be fed from two independent sources as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007.

Metering arrangement with Special Energy Meters (SEMs) shall be provided by TSP at 33 kV tertiary of Transformer for drawing auxiliary supply at new substation. Such SEMs shall be provided by CTU at the cost of the TSP. Accounting of such energy drawn by the TSP shall be done by RLDC/RPC as part of Regional Energy Accounting.

Additionally, Active Energy Meters may be provided at the same point in the 33 kV tertiary of Transformer by local SEB/DISCOM for energy accounting.

ii) 2 sets of 220 V battery banks for control and protection and 2 sets of 48 V battery banks for PLCC/ communication equipment shall be provided at each new Substation. Each battery bank shall have a float-cum-boost charger.

At new substation, sizing of 220 V battery and battery charger shall be done based on the number of bays specified (including future bays) as per CEA Regulations and relevant IS. 2 sets

of 48 V battery banks for PLCC and communication equipment for present and future scope shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required. 48 V DC can be achieved from 220 V DC battery bank using adapter, if so desired by TSP, without compromising backup time.

iii) Suitable AC and DC distribution boards and associated LT Switchgear shall be provided at new substation.

For new substation, following switch boards shall be considered with duplicate supply with bus coupler/ sectionalizer and duplicate outgoing feeders except for Emergency lighting distribution board which shall have only one incoming feeder:

(a) 415 V Main Switchboard – 1 No.
(b) AC distribution board – 1 No.
(c) Main lighting distribution board – 1 No.
(d) Emergency lighting distribution board – 1 No.
(e) 220 Volt DC distribution board – 2 Nos.
(f) 48 Volt DC distribution board – 2 Nos.

Sizing of LT Switchgear shall be suitable to cater the requirement for all present andfuture bays. AC and DC distribution boards shall have modules for all the feeders (including future as specified).

iv) At new Substation, one No. of DG set (minimum 500 kVA for substations withhighest voltage rating as 765 kV) shall be provided for emergency applications.

v) At new substation, sizing of battery and battery chargers shall be done based on the number of bays specified (including future bays).

vi) For substation extensions, existing facilities shall be augmented as required.

B.3.2 Fire Fighting System

Fire-fighting system for substation including Transformer and Reactor shall conform to CEA (Measures Relating to Safety and Electric Supply) Regulations, 2023 as amended from time to time.

Further, adequate water hydrants and portable fire extinguishers shall be provided in the substations. The main header of the firefighting system shall be suitable for extension to bays covered under the future scope; necessary piping interface in this regard shall be provided.

At existing substations, the fire-fighting systems as available shall be extended to meet the additional requirements.

B.3.3 Oil evacuating, Filtering, Testing and Filling apparatus

To monitor the quality of oil for satisfactory performance of Transformers, Shunt Reactors and for periodical maintenance necessary oil evacuating, filtering, testing and filling apparatus would be provided at new substations. Oil storage tanks of adequate capacities for storage of transformer oil would be provided.

Online Transformer Oil Drying Out System shall be provided in line with the provisions of Standard Specification and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class) as amended up to date available on CEA website.

B.3.4 Illumination

Normal and emergency AC and DC illumination shall be provided adequately in the control room and other buildings of the substation. The switchyard shall also be provided with adequate illumination.

The lighting of the entire control room building, fire-fighting pump house, other building (if any) and switchyard shall be done by LED based low power consumption luminaries.

B.3.5 Control Room

For the new substation, substation control room shall be provided to house substation work stations for station level control (SAS) along with its peripheral and recording equipment, AC and DC distribution boards, DC batteries and associated battery chargers, Fire Protection panels, Telecommunication panels and other panels as per requirements. Air conditioning shall be provided in the building as functional requirements. Main cable trenches from the control room shall have adequate space provision for laying of cables from the control room for all the future bays.

At existing substations, the adequacy of size of control room shall be ascertained and the same shall be augmented as per requirement.

B.3.6 Control Concept

All the EHV circuit breakers in substation/switching stations shall be controlled and synchronized from the switchyard control room/remote control center. All the isolators shall have control from remote/local whereas the earth switches shall have local control only.

B.3.7 Visual Monitoring System (VMS) for watch and ward of substation premises:

Visual Monitoring System for effective watch and ward of substation premises shall cover all the transformers and reactors, all other major AIS Equipment (such as CB, isolators, CT, CVT, SA etc. as applicable), panel room, all the gates of switchyard and all entry and exit points of control room building and accordingly the location of cameras shall be decided. In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations. The camera shall be high-definition color CCD camera with night vision feature. The VMS data partly/completely shall be recorded (minimum for 15 days) at least @25fps (or better) and stored on network video recorder. The system shall use video signals from various cameras installed at different locations, process them for viewing on workstations/monitors in the control room and simultaneously record all the cameras. The VMS data should go only to the intended personnel/facility and not to the remote server of the Camera (VMS supplier).

Mouse/keyboard controllers shall be used for pan, tilt, zoom and other functions of the desired camera. The Visual Monitoring System shall have provision of WAN connectivity for remote monitoring.

All camera recordings shall have Camera ID and location/area of recording as well as date/time stamp. The equipment should generally conform to Electromagnetic compatibility requirement for outdoor equipment in EHV substation.

Advisory on deployment of CCTV issued by Ministry of Electronics and Information Technology (MEITY) shall be followed.

At existing substations, the Visual Monitoring System if available shall be augmented as per existing or better specification as required.

B.4 General Facilities

a) Line Gantry/Towers are envisaged for bays under the present scope only. However, for adjacent future line bay, gantry/tower shall be designed for extension (considering Hexa conductors for 765 kV and Quad conductors for 400 kV and Twin conductor for 220 kV future lines) wherever applicable.

b) Bay extension works at existing substation shall be executed by TSP in accordance with the requirements/provisions mentioned above. However, interface points shall be considered keeping in view the existing design/arrangement at the substation.

c) TSP has to arrange for construction power and water on its own.

d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 610 g/m^2, however, for coastal/creek regions it shall be at least 900 g/m^2. (if applicable)

e) In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, all the equipment for Tie and Future Bay shall be designed considering the current rating of line bay i.e. 3150 A.

f) Boundary wall shall be brick masonry wall with RCC frame or Stone masonry wall or Precast RCC wall under present scope along the property line of complete substation area including future switchyard area to prevent encroachment and unauthorized access. Minimum height of the boundary wall shall be of 1.8 m from Finished Ground Level (FGL).

g) All electrical equipment shall be installed above the Highest Flood Level (HFL) and where such equipment is not possible to be installed above Highest Flood Level, it shall be ensured that there is no seepage or leakage or logging of water.

h) As per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022 and CEA Manual on Transmissions Planning criteria 2023, line approaching substation shall normally be perpendicular to the substation boundary for a stretch of 2-3 km. Accordingly, TSP shall ensure that line terminations at substations are arranged in a manner to avoid hindrance to future line terminations at the substations.

i) **TSP shall finalize the substation site/layout such that the corridor for the termination of lines, including future lines at the substation, can be accommodated without any constraints. Accordingly, forests, large water bodies, or hills adjacent to the substation boundary should be avoided.**

B.5 EXTENSION OF EXISTING SUBSTATION

The following drawings/details of existing substation are attached with the RfP documents for further engineering by the bidder.

Sl. No.	Drawing Title	Drawing No./Details	Rev. No.
A.	**765/400/220 kV Kurnool IV PS**		
1.0	Single Line Diagram	*Drawings are yet to be finalized by the developer.*	
2.0	General Arrangement		
3.0	Earthmat Layout		
4.0	Visual Monitoring System		
5.0	Bus Bar Protection		
6.0	Substation Automation System (SAS)		
B.	**400 kV Shadnagar (TGTRANSCO) S/s**		
1.0	Single Line Diagram	*To be provided after obtaining the same from the developer of the State Substation.*	
2.0	General Arrangement		
3.0	Earthmat Layout		
4.0	Visual Monitoring System		
5.0	Bus Bar Protection		
6.0	Substation Automation System (SAS)		
C.	**400 kV Kethiredipally (TGTRANSCO) S/s**		
1.0	Single Line Diagram	*To be provided after obtaining the same from the developer of the State Substation.*	
2.0	General Arrangement		
3.0	Earthmat Layout		
4.0	Visual Monitoring System		
5.0	Bus Bar Protection		
6.0	Substation Automation System (SAS)		

Note: The existing drawings provided above and in subsequent amendments to the RfP are as received from the developer of existing substation and provided only for reference. Bidders shall follow the RfP for scope of work. Actual site conditions may be different due to other schemes being executed or subsequent revisions by the developer. Thus, Bidders are advised to visit the substation sites and acquaint themselves with the actual site conditions, layout, topography, infrastructure such as the requirement of roads, cable trench, drainage, space availability in control rooms and LT panel room, boundary etc. and also the design philosophy.

SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION

The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017, CEA (Cyber Security in Power Sector) Guidelines, 2021, and amendments of all above documents as amended from time to time.

The communication services viz. SCADA, AGC (wherever applicable), VoIP, AMR and PMU have been identified as critical services and therefore shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation.
PMU to PDC communication (wherever required) shall be through 2 channels to the PDC (main) as there is no backup PDC at present.

Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs The complete ISTS communication system commissioned by TSP under the RFP shall be the asset of ISTS and shall be available for usage of ISTS requirements as suggested by CTU from time to time.

In order to meet the requirement for grid management and operation of substations, Transmission Service Provider (TSP) shall provide the following**:**

C.1.0 Establishment of 765/400 kV Shadnagar (ISTS) Station

i) TSP shall supply, install & commission FODP with minimum 288 Fiber capacity along with panel and approach Cable (48F each) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.

ii) TSP shall supply, install & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum Six (6) directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement among Shadnagar station, Kurnool-IV, Bidar, Shadnagar (TGTRANSCO) and Kethiredipally (TGTRANSCO). The suitable DC Power Supply and backup to be provided for communication equipment.

Note: Necessary optical interfaces to be provided by the TSP in the FOTE of Kurnool-IV and Bidar as per link budget requirement after change of fiber length due to LILO at Shadnagar (ISTS) station.

iii) FODP & FOTE equipment with panels shall be provided in Control Room of Shadnagar station. FOTE & FODP Eq can be accommodated in same panel to optimize space.

iv) TSP shall supply, install & commission Firewall in redundant mode (1+1) in line with the specification attached at **Annexure F.1**.

v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, PMU, approach cable, DCPS alongwith Battery Bank & Firewall shall be the responsibility of TSP.

C.2.0 FOTE Requirement for: 400 kV(1 No.) and 220 kV (5 No.) line bays at Kurnool-IV for RE Generators(time schedule 24 months)

i) TSP shall supply, install & commission FODP with minimum 192 Fiber capacity along with panel and approach Cable (24F each) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.

ii) TSP shall supply, install & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum eight (8) directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement for 6 no RE Generators ((400 and 220 kV). Necessary direction shall be provided in the FOTE for RE Generators, however required optical interfaces shall be provided by RE Generators at the time of connectivity.

iii) The suitable DC Power Supply and backup to be provided for communication equipment.

iv) FODP & FOTE equipment with panels shall be provided in Control Room of Kurnool-IV station. FOTE & FODP Eq can be accommodated in same panel to optimize space.

v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, PMU, approach cable, DCPS alongwith Battery Bank & Firewall shall be the responsibility of TSP.

C.3.0 FOTE Requirement for: 400 kV(1 No.) and 220 kV (8 No.) line bays at Kurnool-IV for RE Generators(time schedule 30 months)

i) TSP shall supply, install & commission FODP with minimum 264 Fiber capacity along with panel and approach Cable (24F each) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.

ii) TSP shall supply, install & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum eleven (11) directions with MSP (Multiplex Section

Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement for 9 no RE Generators ((400 and 220 kV). Necessary direction shall be provided in the FOTE for RE Generators, however required optical interfaces shall be provided by RE Generators at the time of connectivity.

iii) The suitable DC Power Supply and backup to be provided for communication equipment.

iv) FODP & FOTE equipment with panels shall be provided in Control Room of Kurnool-IV station. FOTE & FODP Eq can be accommodated in same panel to optimize space.

v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, PMU, approach cable, DCPS alongwith Battery Bank & Firewall shall be the responsibility of TSP

C.4.0 FOTE requirement at Shadnagar (TGTRANSCO) S/s.

i) TSP shall supply, install & commission FODP with minimum 144 Fiber capacity alongwith panel and required Approach Cable (48F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.

ii) TSP shall supply, install & commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among Shadnagar (TGTRANSCO) S/s, Shadnagar (ISTS) S/s and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.

iii) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of **Shadnagar (TGTRANSCO)** which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).

iv) FOTE & FODP can be accommodated in same panel to optimize space.

v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.

C.5.0 FOTE requirement at Kethiredipally (TGTRANSCO)S/s.

i) TSP shall supply, install & commission FODP with minimum 144 Fiber capacity alongwith panel and required Approach Cable (48F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.

ii) TSP shall supply, install & commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among Kethiredipally (TGTRANSCO) S/s, Shadnagar (ISTS) S/s and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.

iii) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of **Kethiredipally (TGTRANSCO)** which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).

iv) FOTE & FODP can be accommodated in same panel to optimize space.

v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.

C.6.0 OPGW requirement for LILO Portion of 765 kV Kurnool-IV – Bidar D/C line at Shadnagar station

On LILO of 765 kV Kurnool-IV – Bidar D/C line at Shadnagar station, TSP shall supply, install & commission OPGW and earthwire as per Tower Configurations:

i) Loop-In and Loop out Ckt on Single Towers: Two (2) No. OPGW cable containing 48 Fibres (48F) to be installed & commissioned by the TSP on both the Earthwire peaks

ii) Loop-In and Loop out Ckt on Two separate Towers: One (1) No. OPGW cable containing 48 Fibres (48F) on one earthwire peak & conventional earthwire on other E/W peak for both Loop In and Loop Out Lines.

iii) The TSP shall install OPGW cables from gantry of Shadnagar station up to the LILO tower with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at Shadnagar station. The transmission line length is 50 kms (approx.). After LILO, if fiber length for links **Shadnagar station** to **Kurnool-IV** and **Shadnagar station** to **Bidar** is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.

iv) TSP shall finalize the location of repeater station depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per **Appendix-F.1**

v) Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.

C.7.0 Shadnagar station – Shadnagar (TGTRANSCO) 400 kV D/C line

(I) On Shadnagar station – Shadnagar (TGTRANSCO) S/s 400 kV D/C line, TSP shall supply, install & commission One (1) No. OPGW cable containing 48 Fibres (48F) on one E/W peak and conventional earth wire on other E/W peak.

(II) The TSP shall install this OPGW from gantry of Shadnagar S/s up to the gantry of Shadnagar(TGTRANSCO) with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is **50 kms (approx.),** where repeater may not be required to meet the link budget requirement of Shadnagar station – Shadnagar(TGTRANSCO) link.

(III) Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.

C.8.0 Shadnagar station – Kethiredipally (TGTRANSCO) 400 kV D/C line

(I) On Shadnagar station – Kethiredipally (TGTRANSCO) S/s 400 kV D/C line, TSP shall supply, install & commission One (1) No. OPGW cable containing 48 Fibres (48F) on one E/W peak and conventional earth wire on other E/W peak.

(II) The TSP shall install this OPGW from gantry of Shadnagar S/s up to the gantry of Kethiredipally (TGTRANSCO) with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is **60 kms (approx.),** where repeater may not be required to meet the link budget requirement of Shadnagar station – Kethiredipally (TGTRANSCO) link.

(III) Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.

C.9.0 Specific Requirement for Phasor Measurement Units (PMUs)

TSP shall supply, install and commission required No. of Phasor Measurement Units (PMUs) as per the "Guidelines on Unified Philosophy for placement of PMUs in Indian Grid" issued vide CEA letter No. CEA-PS-14-12/9/2024-PSETD Division dated 19.03.2025 for the scope of this RfP. The PMUs shall be provided with LAN switch and shall connect with LAN switch of control room of respective substations/ generating stations with Fiber Optic cable. These PMUs shall be connected with the FOTE at Substation/ generating stations for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for new PMU integration shall be done by respective RLDC, however all the necessary support in this regard shall be ensured by TSP. The maintenance of all the PMUs and associated equipment shall be the responsibility of TSP.

Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.

C.10.0 Specific Requirement for UNMS Integration of FOTE

Communication system integration in UNMS/CSMS

TSP is to ensure integration of communication system into UNMS/CSMS as per following:

"The new communication equipment/ system under the present scope shall be compatible for integration with existing regional level NMS system/ Centralized Supervision & Monitoring System (CSMS) i.e. Regional UNMS. The local configuration of the new communication equipment/ system at the station end shall be the responsibility of TSP as per followings. The configuration work in the existing centralized NMS/ UNMS at Control center end, for integration of new Communication equipment/ system shall be done by Regional ULDC Team/ NMT, however all the necessary support in this regard shall be ensured by TSP.

Requirement for integration of Communication Equipment/ system with Regional UNMS:

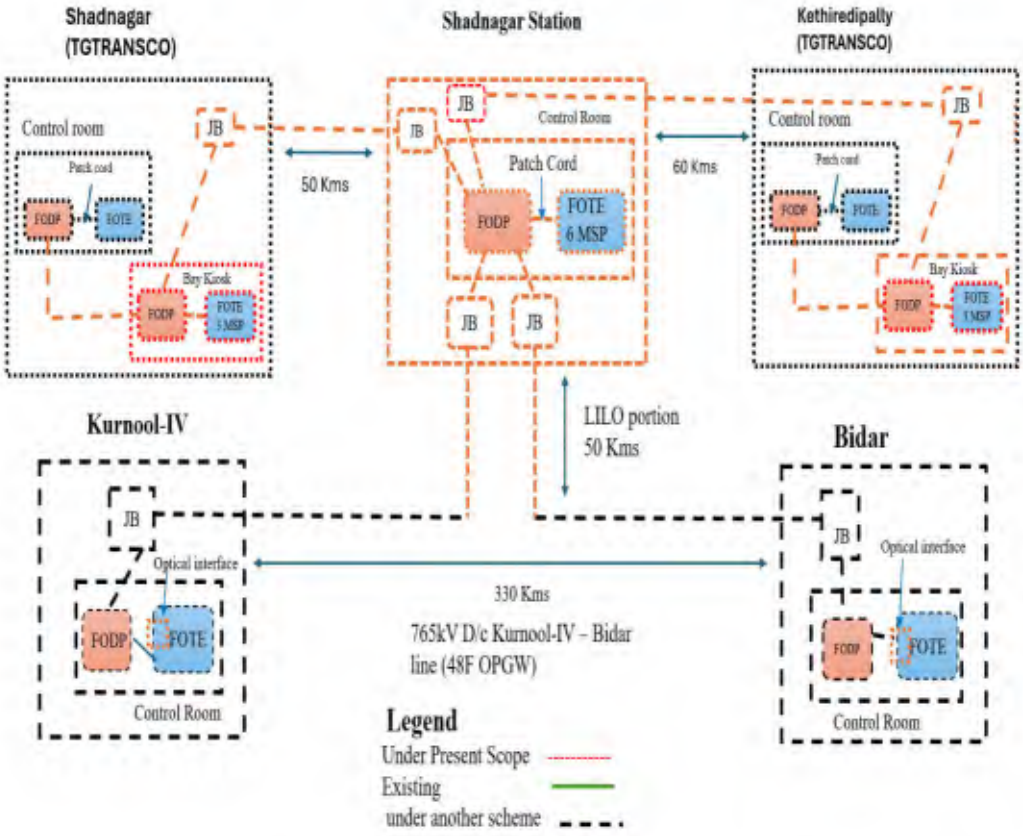
1. TSP shall ensure that NMS/EMS/NE supplied by them is NBI compliant and all FCAPS functionality is supported in the NBI such as NE Inventory, Hardware Inventory– Shelf/Slot/Card/SFP/Port, Topology, Protections, Alarms, Performance-real time & periodic, Performance KPI parameters (E-1, STM, Ethernet), Remote Configuration, Cross Connects, Trails & Circuits, Services Provisioning (NE), E-1, STM, Ethernet, TX & RX Trace, loop back and details are published in the NBI guide for the configuration parameters.

2. TSP shall be obliged to provide/share all necessary documentations such as NBI Guide/MIB/IDL/WSDL/API files etc. for onward integration of their NMS/EMS/NE with regional UNMS.

3. The following support shall be provided by TSP for integration of their supplied equipment with regional UNMS:
   - Enabling & activating NBI license in their EMS/NMS and providing NBI login access along with User credentials
   - Assist in verifying NBI Connectivity with UNMS vendor for the successful communication and retrieval of data.
   - Assist in troubleshooting (if required) for NBI connectivity along with UNMS vendor for the communication and retrieval of data.

4. For standalone NE which is not integrated with any EMS/NMS, TSP shall provide modality of complete FCAPS data acquisition as above through industry standard programmatic methods and provide the CLI command manual."

Proposed Communication for " **Transmission System for Kurnool-IV REZ - Phase-II (3 GW)** "



Appendix-F.1

Repeater Requirements

- If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide OPGW to accommodate all the fibers in main transmission line on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and required approach Cable to accommodate all the OPGW fibers with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.
  TSP shall co-ordinate for Space & DC power supply sharing for repeater equipment.
  TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces required for link budget of respective link.

  OR

- If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide OPGW to accommodate all the fibers in main transmission line on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and required approach Cable/UGFO to accommodate all the OPGW fibers with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed.
  TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.

  OR

- If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide required approach Cable to accommodate all the OPGW fibers with all associated hardware fittings to establish connectivity up to the location of repeater shelter.
  TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems

  Maintenance of OPGW Cable and **OPGW Hardware**, repeater equipment & items associated with repeater shelter shall be responsibility of TSP.

Annexure-F.1

Next Generation Firewall (NGFW)

TSP shall provide 2 NGFW one in Main & another in Standby mode having electrical ethernet interfaces/ports and placed between FOTE & SAS gateway/s at the substation. All ethernet based applications shall be terminated in the firewall ports directly (e.g. PMU, AMR, VOIP, SAS/SCADA etc.). Each port of firewall shall work as a separate zone. Firewall shall be hardware based with features of Block/Allow/drop and IPSec VPN (network encryption).

The number of ports/interfaces in each firewall (i.e. Main & Standby) shall be minimum 16 Nos. TSP shall provide either single firewall or multiple firewalls to meet this interfaces requirement, each for main as well as standby firewall. Minimum throughput of firewall shall be 300 Mbps.

The Firewall shall be managed/ configured as standalone at present and shall also have compatibility to manage/configure through Centralized Management Console (CMC) remotely in future.

Firewall shall be tested and certified for ISO15408 Common Criteria for least EAL4+. Further, the OEM must certify that it conforms to Secure Product Development Life Cycle requirements as per IEC62443-4-1. The firewall shall generate reports for NERC-CIP Compliance.

The specifications for the firewalls are given at **Annexure-F.2** and schematic diagram showing firewall placement given at **Figure F.2**.

Annexure F.2

Specifications of Next Generation Firewall (NGFW)

1. NGFW shall have following features including but not limited to:
   Encryption through IPSec VPN (Virtual Private Network), Deep Packet Inspection (DPI), Denial of service (DoS) & Distributed Denial of Service (DDoS) prevention, Port Block/ Allow, rules/ policies for block/allow, IP (Internet Protocol) & Media Access Control (MAC) spoofing protection, threat detection, Intrusion Prevention System (IPS), Anti-Virus, Anti-Spyware, Man In The Middle (MITM) attack prevention.
2. The proposed firewall shall be able to handle (alert, block or allow) unknown /unidentified applications e.g. unknown TCP & UDP packets. It shall have the provision to define application control list based on application group and/or list.
3. Firewall shall have feature and also have capability to update the definition/ Signatures of Anti-Virus online as well as offline. Firewall shall also be compatible to update the definitions/signatures through CMC. There shall be a defined process for security patching and firmware up-gradation. There shall be a feature to field validate firmware checksum. The same shall also be validated before using the OEM provided file/binary in the process of firmware up-gradation and security patching
4. Firewall shall have Management Console port to configure remotely.
5. Firewall shall be EMI/EMC compliant in Substation environment as per IEC 61850-3.
6. Firewall shall be rack mounted in existing standard equipment cabinets.
7. Firewall shall have support of SCADA applications (IEC-60870-5-104), ICCP, PMU (IEEE C37.118), Sub-Station Automation System (IEC 61850), Ethernet and other substation environment protocols.
8. Client based Encryption/ VPN must support different Operating System platforms e.g. Windows, Linux & Mac.
9. The solution must have content and comprehensive file detection policies, blocking the files as function of their types, protocols and directions.
10. Firewall shall have logging facility as per standard logs/events format. Firewall shall have features to export the generated/stored logs/events in csv (Comma Separated Value) and also any other standard formats for offline usage, analysis and compliance. Firewall shall have suitable memory architecture and solution to store and be enable to export all logs/events for a period of last 90 days at any given time.
11. Firewall shall have features and be compatible with local as well as central authentication system (RADIUS, LDAP, or TACACS+) for user account and access right management. It shall also have Role Based User management feature.
12. Firewall shall have the capability to configure sufficient number of VLANs.
13. Firewall shall have the capability to support sufficient number of sessions.
14. Firewall shall have provision to configure multiple IP Sec VPNs, at least 100 Nos., (one-to-many or many-to-one). Shall support redundant operation with a similar router after creation of all the IP Sec VPN. IPSec VPN shall support encryption protocols as AES128, AES256 and hashing algorithms as MD5 and SHA1. IPSec VPN throughput shall support at least 300 Mbps
15. Firewall shall be capable of SNMP v3 for monitoring from Network Management system. It shall also have SNMPv3 encrypted authentication and access security

16. Firewall shall support in Active/Passive or Active-Active mode with High Availability features like load balancing, failover for firewall and IPsec VPN without losing the session connectivity.
17. Firewall should have integrated traffic shaping (bandwidth, allocation, prioritisation, etc.) functionality
18. Shall support simultaneous operation with both IPv4 and IPv6 traffic
19. Firewall shall be compatible with SNTP/NTP or any other standards for clock synchronization
20. Firewall shall have the features of port as well as MAC based security
21. Firewall shall support exporting of logs to a centralized log management system (e.g. syslog) for security event and information management.
22. Firewall time shall be kept synchronised to official Indian Timekeeping agency, time.nplindia.org.
23. Firewall product shall be provided with all applicable updates at least until 36 months since the applicable date of product shipping to the concerned utility.

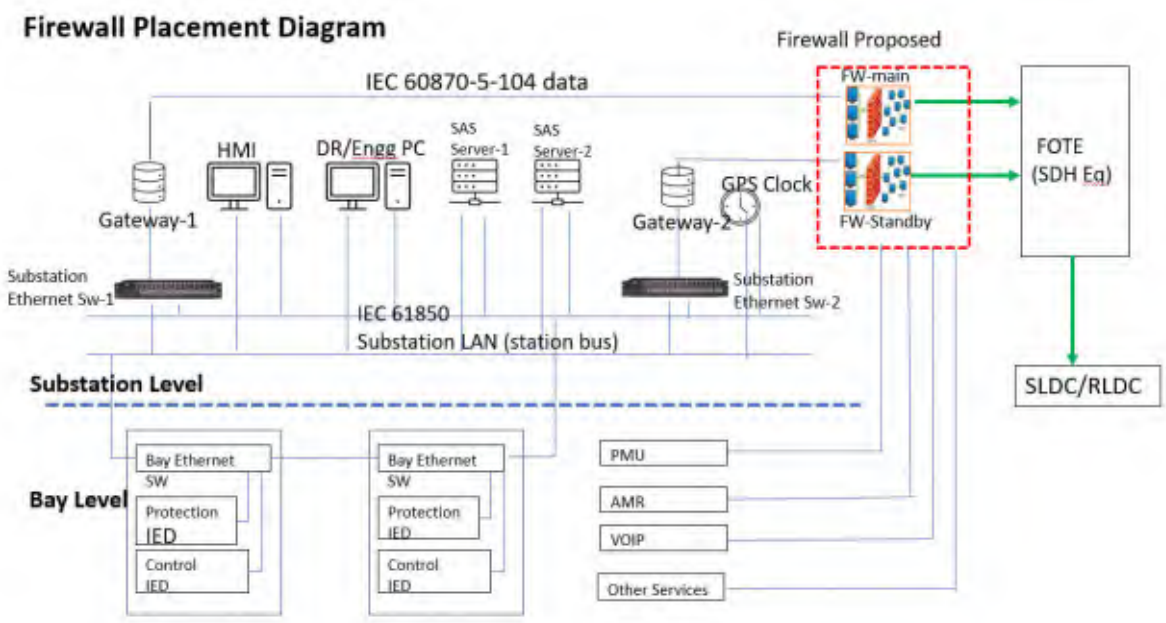

Firewall Placement Diagram
Firewall Proposed
IEC 60870-5-104 data
FW-main
FW-Standby
FOTE
(SDH Eq)
HMI
DR/Engg PC
SAS
Server-1
SAS
Server-2
GPS Clock
Gateway-1
Gateway-2
Substation
Ethernet Sw-1
Substation
Ethernet Sw-2
IEC 61850
Substation LAN (station bus)
Substation Level
SLDC/RLDC
Bay Level
Bay Ethernet
SW
Protection
IED
Control
IED
Bay Ethernet
SW
Protection
IED
Control
IED
PMU
AMR
VOIP
Other Services

Figure F.2

C.11.0 PLCC and PABX:

Power line carrier communication (PLCC) equipment complete for speech, tele-protection commands and data channels shall be provided on each transmission line. The PLCC equipment shall in brief include the following: -

- Coupling device, Coupling filters line traps, carrier terminals, protection couplers, HF cables, PABX (if applicable) and maintenance and testing instruments.
- At new substation, a telephone exchange (PABX) of 24 lines shall be provided at as means of effective communication among various buildings of the substation, remote end substations and with control centres (RLDC/ SLDC) etc.
- Coupling devices shall be suitable for phase-to-phase coupling for 400 kV Transmission lines. The pass band of coupling devices shall have sufficient margin for adding communication channel in future if required. Necessary protection devices for safety of personnel and low voltage part against power frequency voltages and transient over voltage shall also be provided.
- The line traps shall be broad band tuned suitable for blocking the complete range of carrier frequencies. Line Trap shall have necessary protective devices such as lightning arresters for the protection of tuning device. Decoupling network consisting of line traps and coupling capacitors may also be required at certain substation in case of extreme frequency congestion.
- The carrier terminals shall be of single side-band (SSB) amplitude modulation (AM) type and shall have 4 kHz band width. PLCC Carrier terminals and Protection couplers shall be considered for both ends of the line.
- **PLCC equipment for all the transmission lines covered under the scheme shall be provided by TSP. PLCC to be provided for following lines under present scope:**

Sl. No	Line name	PLCC configuration
1.	**Shadnagar – Shadnagar (TGTRANSCO) 400 kV D/C line**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.
2.	**Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.

- **TSP shall provide/ undertake necessary addition/ modification/ shifting/ re-commissioning etc. of PLCC equipment due to LILO of transmission lines (wherever applicable).**

Sl. No	Line name	PLCC configuration
1.	**Kurnool-IV – Shadnagar 765 kV D/C line [formed after LILO]**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends. Existing PLCC panels can also be utilized to meet the above configuration.

2.	**Shadnagar -- Bidar 765 kV D/C line [formed after LILO]**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends. Existing PLCC panels can also be utilized to meet the above configuration.

- Further, CVT and Wave trap for all 765 kV, 400 kV and 220 kV line bays under present scope shall be provided by TSP.
- All other associated equipment like cabling, coupling device and HF cable shall also be provided by the TSP.
- Two (2) sets of 48 V battery banks for PLCC and communication equipment shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required.

Communication system integration in UNMS/CSMS

TSP is to ensure integration of communication system into UNMS/CSMS as per following:

"The new communication equipment/ system under the present scope shall be compatible for integration with existing regional level NMS system/ Centralized Supervision and Monitoring System (CSMS) i.e. Regional UNMS. The local configuration of the new communication equipment/ system at the station end shall be the responsibility of TSP as per followings. The configuration work in the existing centralized NMS/ UNMS at Control center end, for integration of new Communication equipment/ system shall be done by Regional ULDC Team/ NMT, however all the necessary support in this regard shall be ensured by TSP.

Requirement for integration of Communication Equipment/ system with Regional UNMS:

1. TSP shall ensure that NMS/EMS/NE supplied by them is NBI compliant and all FCAPS functionality is supported in the NBI such as NE Inventory, Hardware Inventory– Shelf/Slot/Card/SFP/Port, Topology, Protections, Alarms, Performance-real time and periodic, Performance KPI parameters (E-1, STM, Ethernet), Remote Configuration, Cross Connects, Trails and Circuits, Services Provisioning (NE), E-1, STM, Ethernet, TX and RX Trace, loop back and details are published in the NBI guide for the configuration parameters.

2. TSP shall be obliged to provide/share all necessary documentations such as NBI Guide/MIB/IDL/WSDL/API files etc. for onward integration of their NMS/EMS/NE with regional UNMS.

3. The following support shall be provided by TSP for integration of their supplied equipment with regional UNMS:
   1) Enabling and activating NBI license in their EMS/NMS and providing NBI login access along with User credentials
   2) Assist in verifying NBI Connectivity with UNMS vendor for the successful communication and retrieval of data.
   3) Assist in troubleshooting (if required) for NBI connectivity along with UNMS vendor for the communication and retrieval of data.

4. For standalone NE which is not integrated with any EMS/NMS, TSP shall provide modality of complete FCAPS data acquisition as above through industry standard programmatic methods and provide the CLI command manual."

Frequently Asked Queries:

1.0 Transmission Line:

1.1 Please clarify that whether shutdowns for crossing of existing transmission lines of POWERGRID/STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP on chargeable basis or free of cost.

Reply: Shutdowns for crossing of existing transmission lines of POWERGRID/ STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP by the concerned owner of the lines as per their own terms and conditions. As far as shutdown of ISTS lines are concerned the same can be availed by approaching respective Regional Power Committee.

1.2 We understand that the suggested swing angle criteria are applicable for Suspension Insulator in Suspension Tower. Further, you are requested to provide similar swing angle and clearance criteria for Pilot Insulator with Jumper and Jumper.

Reply: It is clarified that the swing angle criteria (as mentioned in RFP) for transmission lines is applicable for Suspension Insulator in Suspension Tower. Further, as per Clause 3.0 of Specific Technical Requirements for transmission lines, Transmission service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.

1.3 We request you to kindly allow that use of diamond configuration at Power line crossings and the existing owner of the lines may be directed to allow the same for the successful bidders.

Reply: Power line crossing including Diamond configuration is the responsibility of the TSP. TSP shall formally submit the profile of the crossing section to the owner of the existing line suggesting proposed crossing alternatives. The crossing will have to be carried out as per approval of owner of the existing line.

1.4 It is requested you to kindly provide present status of Forest Clearances if any transmission line corridor area falling in wildlife forest / reserve forest/ mangroves

Reply: Based on the preliminary route survey, the process of initiation of forest clearance for the forest stretches, if any, enroute the proposed line alignment will be initiated by way of writing letters to the concerned authority (ies). However, it may be noted that it will be the responsibility of TSP for obtaining forest clearance for the forest stretches as provided in the survey report and also for any forest area encountered during detailed survey.

1.5 For transmission line, no special requirement is specified for type of Insulator and creepage in RFP document. Hence it is understood that bidder can decide the type of insulator along with

creepage requirement based on general CEA regulations and relevant standards. Kindly confirm.

Reply: The minimum specific creepage distances shall be decided for the site pollution severity in the area of installation keeping in mind further increase in pollution during life of the line. It shall be as per CEA regulations and relevant standards. However, the tower shall be designed considering the porcelain insulators with creepage factor of 31 mm/kV irrespective of type of insulator used.

2.0 Substation

2.1 We understand that space for storage of O&M spare shall be provided by existing owner within the station boundary without any cost. Kindly confirm.

Reply: Space for storage of O&M spares shall be arranged by TSP on its own.

2.2 We presume that the O&M for the end Termination bays will be in the scope of the TSP and TSP shall not be liable for any payment towards O&M to the existing owner of the substation. Kindly confirm.

Reply: Operation and maintenance of the bays is solely responsibility of the TSP. Further, TSP shall follow CEA's "Operation and Maintenance (O&M) guidelines and Standard Format for Memorandum of Understanding between New TSP and Existing TSP" issued by CEA vide its letter No. I/28514/2023 dated 22.06.2023.

2.3 With reference to subject scheme of existing sub-station, we assumed following scope of work:

(a) We assumed internal road is available and need not to be consider in the present scope of work.
(b) Drainage is available and need not to consider in the present scope of work.
(c) Cable trench extension adjacent to Main cable trench only under present scope of work.
(d) Levelled area being provided by developer for bay extension.

Reply: Regarding requirement of internal road, drainage, cable trench, leveling of the bay extension area, bidder is advised to visit site and acquaint themselves with the provisions/facilities available at substation.

2.4 Kindly provide the soil investigation report of soil parameters of existing substation.

Reply: Bidder is advised to visit the substation site and ascertain the requisite parameters.

2.5 Kindly confirm, energy accounting of aux. power consumption. Whether it will be on chargeable basis or part of transmission loss.

Reply: It will be on a chargeable basis.

2.6 We understand that VMS requirement is for unmanned stations only. For Manned stations VMS is not compulsory.

Reply: VMS shall be provided in line with requirements of RfP document.

2.7 It is understood that Construction water and power shall be provided free of cost to TSP by respective substation owner for construction of new bay.

Reply: Arrangement of construction power and water is in the scope of TSP.

2.8 It is understood that the existing fire hydrant system shall be extended by the TSP for bay extension.

Reply: Existing fire hydrant system shall be extended from existing system (if required)

2.9 Please clarify the Status of land acquisition for new Substations. Whether the lands have been acquired by BPC and will be transferred to TSP.

Reply: The acquisition of land for new substation is in the scope of TSP.

2.10 We understood that no any dedicated metering CT and CVT required for Line/feeders. Further, we understood that requisite Energy meters for various 765 kV, 400 kV and 220 kV Feeders shall be provided and installed by CTU free of cost to TSP.
Reply: Dedicated metering CT and CVT are not required for line/feeders. Metering core of existing CT/CVT can be used provided accuracy class matches with metering requirement. Requisite Special Energy Meters shall be provided and installed by CTU at the cost of TSP in C&P panel subject to space availability, else, in separate metering panel (to be provided by TSP at its cost).

2.11 A draft copy of the Connection Agreement may be furnished. A draft copy of the Connection Agreement may be furnished.

Reply: Web page link https://www.ctuil.in/formats_gna_transition

2.12 Please clarify whether the spare 765 kV single phase Reactor unit for Bus reactor shall be provided with 1ph 765 kV CB.

Reply: As per RfP, the spare 1-Ph reactor unit shall be utilized for all the bus and switchable line reactor banks (including for future reactor banks). Hence, 1ph 765 kV
CB shall also be provided with spare 1-Ph reactor for utilizing with bus reactor as well as switchable line reactor.

2.13 It is understood that existing busbar protection has provision for future bays and also PUs are available for future bays. BPC to confirm availability of CU and PU for bays under present scope

of work at existing substations. BPC may kindly confirm availability of communication ports for integrating new PUs with the existing CUs at existing substations.

Reply: Bus Bar Protection with Central Unit (CU) is required for the new bus section as specified in RfP. Peripheral Units (PUs) shall be provided by the respective bay owner. Further, augmentation/replacement of existing CU, if required, to meet the system requirement shall also be provided for proper functioning of bus bar protection.

2.14 For SCADA, it is understood that necessary process I/O shall be available for future bays and accordingly license for same. BPC to confirm.

Reply: Necessary process I/O along with license shall be in the scope of the successful bidder.

2.15 No separate FF system is envisaged under the present scope of work for existing substation. BPC to confirm.

Reply: Existing fire-fighting systems shall be extended to meet the additional requirements under present scope.

2.16 PLCC for 220 kV Lines are not under the scope of TSP. BPC to Confirm.It is requested to provide Type of Coupling for 220 kV Transmission Lines under present scope.

Reply: PLCC for 220 kV line is in the scope of developer of the line.
Inter circuit coupling for 220 kV D/C and phase to phase coupling for 220 kV S/C shall be applicable for PLCC.

2.17 BPC is requested to confirm the availability of space in the existing control rooms at existing substation for execution of extension work under current project.

Reply: Switchyard Panel Rooms are generally required for AIS type substation and relay room are required for GIS type substation. Further, if needed, the control room shall be augmented as per requirement.

3.0 Communication

3.1 What are the usage of OPGW, FOTE, PMU etc. under communication requirement of RFP?

Reply: User shall be responsible for providing compatible equipment along with appropriate interface for uninterrupted communication with the concerned control center and shall be responsible for successful integration with the communication system provided by CTU.
Communication systems e.g. OPGW, FOTE etc. and PMU are required for grid operation through RLDC/SLDC, speech communication, tele-protection and tele-metering.

3.2 Is space for installation of communication panels are provided to TSP in existing Substations incase new bays are in the scope of TSP?

Reply: The space related issues are deliberated in the RfP itself. TSP to install FOTE/FODP panels in the new Bay Kiosk (Switchyard Panel Room (SPR)) / Bay Kisok/ Relay Panel Room (in case of GIS S/s). Further, TSP to connect and integrate the proposed FOTE with the existing FOTE in the control room to complete communication path up to RLDC.

In Case 132 kV Substation TSP shall accommodate the said panels either by extension of existing control room or other arrangements.

3.3 How is the OPGW laying done in case of LILO lines?

Reply: In case LILO lines are on same towers (e.g. both Line in and Line Out portion are on same towers, generally done LILO of S/C lines). Then 2x48F OPGW shall be required to install by TSP on both earthwire peak on 400 kV and 765 kV lines where two E/W peaks are available. On 220 kV and 132 kV lines where only one E/W peak is available TSP to install one No. 96F OPGW.
In case LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then 1x48F OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on second earthwire peak, on both Line In and Line Out portion towers of 400 kV and 765 kV lines. On 220 kV and 132 kV lines where only one E/W peak is available TSP to install one No. 48F OPGW in place of conventional earthwire.

3.4 How is the OPGW laying done in case Multi circuit Towers?

Reply: In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two No. 48F OPGW to be installed on both E/W peaks for common M/C portion of 765 kV and 400 kV lines.

In case 220/132 kV lines using multi circuit portion where single E/W peak is available one No. 96F may be installed for common multi circuit portion.

3.5 How PMUs are integrated for new bays at existing Substations?

Reply: PMU data of new bays to be provided in the ethernet port of switch at control **room** and thereafter to be connected with existing FOTE of existing substation to send data to PDC of RLDC by TSP. These PMUs shall be provided with GPS/NavIC clock and LAN switch and shall connect with LAN switch of control room of respective substations with Fiber Optic cable. In this regard, the “Guidelines on Unified Philosophy for placement of PMUs in Indian Grid” issued vide letter No. CEA-PS-14-12/9/2024-PSETD Division dated 19.03.2025 shall be followed.

3.6 Is Spare direction available in existing FOTE for integration with new bay kiosk FOTE

Reply: The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of substation for onwards data transmission.
In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room.

3.7 What is the distance from LILO point to proposed substation for feasibility of repeater station?

Reply: Tentative Location of LILO point shall be as per survey report of BPC however, exact location to be ascertained after detailed survey by TSP.

3.8 What is the make and model of existing OPGW in case LILO of main line at new substation?

Reply: All OPGW (alongwith optical fibers) meet Central Electricity Authority (Technical Standards for Communication System in Power System Operations) Regulations, 2020 and bidder shall install OPGW accordingly.

3.9 In case of LILO of existing line at new substation who shall provide PMUs at existing substation bays?

Reply: TSP shall provide the PMUs for the scope under the RfP and the same shall comply with the "Guidelines on Unified Philosophy for placement of PMUs in Indian Grid" issued vide letter No. CEA-PS-14-12/9/2024-PSETD Division dated 19.03.2025.

4.0 Planning :

4.1 Whether the Project/ Elements are eligible for early commissioning incentive as per MoP, GoI order dated 15.07.2015.?

Reply: Commissioning is to be done as per the timeline mentioned in RfP. However, early commissioning shall be treated as per applicable CERC Regulations/orders.

Amendment-1 (dated: 03.06.2025) to RFP Documents for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process.

Sl. No.	Clause No.	Existing Clause	New/Revised Clause
1.	**All the relevant clauses of RFP, TSA and SPA**	"SPV [which is under incorporation]"	**All the relevant clauses of RFP, TSA and SPA** **"SPV [which is under incorporation]" may be read as "KURNOOL IV REZ POWER TRANSMISSION LIMITED"**

Amendment No. 2 (dated: 16.06.2025) to RFP Documents "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process

Sr. No	Clause No.	Existing Clause	New/Revised Clause
1.	Clause 1.6.1.1 of RFP	Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment and forest, civil aviation, railway/ road/river/canal/power crossing/PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing and commissioning. Further, the actual location of substations, switching stations or HVDC terminal or inverter stations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. Further, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.	Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment & forest, civil aviation, railway/ road/ river/ canal/ power crossing/ PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing & commissioning. Further, the actual location of Greenfield Substation (Switching Station or HVDC Terminal or Inverter Station) in the scope of TSP: • For Generation Pooling Substation shall not be beyond **3 Km** radius of the location proposed by BPC in their survey report. • For Load Serving Substation within the scope of TSP shall not be beyond **5 Km** radius of the location proposed by the BPC in their Survey Report. • For an Intermediate Substation shall not be beyond **10 Km** radius of the location proposed by the BPC in their Survey Report.
2.	Clause 5.1.4 of TSA	The TSP shall be responsible for a) Acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations.	The TSP shall be responsible for a) Acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations. Also, the actual

Sr. No	Clause No.	Existing Clause	New/Revised Clause
		Also, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.	location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) in the scope of TSP: • For Generation Pooling Substation shall not be beyond **3 Km** radius of the location proposed by BPC in their survey report. • For Load Serving Substation within the scope of TSP shall not be beyond **5 Km** radius of the location proposed by the BPC in their Survey Report • For an Intermediate Substation shall not be beyond **10 Km** radius of the location proposed by the BPC in their Survey Report.
3.	Term "Bid Bond" under "DEFINITIONS" of RfP Document	"**Bid Bond**" shall mean the unconditional and irrevocable bank guarantee for Rupees …… (Rs……) only [Bid Bond would be computed @ 2% of the required aggregate capital cost of projects/ aggregate payments received for the projects as calculated under Clause 2.1.2. of RFP document], to be submitted along with the Technical Bid by the Bidder under Clause 2. 11 of this RFP, as per the format prescribed in Annexure 14;	**"Bid Bond"** shall mean the unconditional and irrevocable" bank guarantee or unconditional and irrevocable Insurance Surety Bond issued by Insurance Company authorized by Insurance Regulatory and Development Authority of India) or Payment on Order Instrument for Rupees…….. (Rs……) Only [Bid Bond would be computed @ 2% of the required aggregate capital cost of projects/ aggregate payments received for the projects as calculated under Clause 2. 1. 2 of RFP Document], to be submitted along with the Technical Bid by the Bidder under Clause 2. 11 of this RFP, as per the format prescribed in Annexure 14 (for Bank Guarantee) or Annexure 14A (for Insurance Surety Bond) or Annexure 14B (for Payment on Order);
4.	New term "Payment on Order Instrument" Under	[New Term]	"**Payment on Order Instrument"** Shall mean Letter of Undertaking from Indian Renewable Energy Development Agency Limited (IREDA) or Power Finance Corporation Limited (PFC) or REC Limited (REC) [the three non-banking financial institutions under Ministry of New & Renewable

Sr. No	Clause No.	Existing Clause	New/Revised Clause
	"DEFINITIONS " , After term "Parent Company" of RfP Document		Energy (MNRE)/ Ministry of Power (MoP)], to pay in case situation of default of Transmission Service Provider (TSP) in terms of tender conditions/ Power Purchase Agreement (PPA) arises. Such Letter(s) will have same effect as that of a Bank Guarantee issued by any public sector bank, Such "Payment on Order instrument" would have terms and conditions similar to that of any Bank Guarantee given by any public sector bank and would promise to pay the Nodal Agency on demand within stipulated time. TSPs can seek such Letter(s) by offering due security to the above-mentioned three non-banking financial institutions mentioned above (IREDA, PFC & REC). Nodal Agency shall not accept the instrument of 'Letter of Undertaking' as described above or in any other from, from any other non-banking financial institutions or bank, except IREDA, PFC & REC.
5.	Para 14 of "ANNEXURE 1- COVERING LETTER" of RfP Document	**Bid Bond** We have enclosed a Bid Bond of Rupees……Crores (Rs……) only or US$ ……(……US Dollars), in the form of bank guarantee no ……[Insert number of the Bank Guarantee] dated…….. [Insert Date of the Bank Guarantee] as per your proforma (Annexure-14) from…….. [Insert name of bank providing Bid Bond] and valid up to ……..in terms of Clause 2. 11 of the RFP. Or We have enclosed a Bid Security Declaration as per your proforma (Annexure-14A) [To be inserted for projects wherein RFP has been issued before 31.12.2021 otherwise to be deleted]	**Bid Bond** We have enclosed a Bid Bond of Rupees……Crores (Rs ……) only or US$ ……(……US Dollars), in the form of- bank guarantee no ……[Insert number of the Bank Guarantee] dated…….. [Insert Date of the Bank Guarantee] as per your proforma (Annexure-14) from…….. [Insert name of bank providing Bid Bond] and valid up to ……..in terms of Clause 2. 11 of the RFP. Or In the form of insurance surety bond no……..[Insert number of the Insurance Surety Bond] dated……..[Insert Date of the Insurance Surety Bond] as per your proforma (Annexure-14A from ……[Insert name of Insurance Company

Sr. No	Clause No.	Existing Clause	New/Revised Clause
			providing Insurance Surety bond] and valid up to…….in terms of Clause 2.11 of the RFP or in the form of Payment on Order Instrument no. …… [Insert number of the Instrument] "dated……..[Insert Date of the Instrument] as per your proforma (Annexure-14B) …… [Insert name of company issuing Payment on Order Instrument] and valid up to …….. in terms of Clause 2.11 of the RFP.
6.	Clause 2.12.1 of RfP Document	Within ten (10) days from the date of issue of the Letter of Intent, the Selected Bidder, on behalf of the TSP, will provide to the Nodal Agency the Contract Performance Guarantee for an amount of Rs……. Crore (Rupees…….. Only) [Contract Performance Guarantee would be computed @ 5% of the required aggregate capital cost of projects/ aggregate payments received for the project as calculated under Clause 2.1.2 of RFP Document]. However, this value would be computed @ 3% of the required aggregate capital cost of projects/aggregate payments received for the projects as calculated under Clause 2.1.2 of RFP Document for the projects for which RFP has been issued till 31.12.2021]. The Contract Performance Guarantee shall be initially valid for a period up to three (3) months after the Scheduled COD of the Project and shall be extended from time to time to be valid for a period up to three (3) months after the COD of the Project and thereafter shall be dealt with in accordance with the provisions of the Transmission Service Agreement. The Contract Performance Guarantee shall be issued by any of the banks listed in Annexure-17.	Within ten (10) days from the date of issue of the Letter of Intent, the Selected Bidder, on behalf of the TSP, will provide to the Nodal Agency the Contract Performance Guarantee for an amount of Rs. ……Crore (Rupees……Only [Contract Performance Guarantee would be computed @ 5% of the required aggregate capital cost of projects/ aggregate payments received for the project as calculated under Clause 2.1.2 of RFP Document]. The Contract Performance Guarantee shall be initially valid for a period up to three (3) months after the Scheduled COD of the Project and shall be extended from time to time to be valid for a period up to three (3) months after the COD of the Project and thereafter shall be dealt with in accordance with the provisions of the Transmission Service Agreement. The contract Performance Guarantee shall be issued by Any of the banks listed in Annexure-17 as per format given at Annexure-15 or Any of the insurance companies authorized by Insurance Regulatory and Development Authority of India as per format given at Anbnexure-15 A or PFC/REC/IREDA as per Payment on Order Instrument format given at Annexure-15 B.
7.	Annexure 14	As per existing Annexure 14 A	As per new **Annexure 14 A-** FORMAT OF INSURANCE SURETY BOND FOR BID SECURITY (**Annex-1**).

Sr. No	Clause No.	Existing Clause	New/Revised Clause
	A- FORMAT OF THE BID SECURITY DECLARATION [VALID TILL RFP ISSUED ON OR BEFORE 31.12.2021] of RfP Document		
8.	New Annexure 14-B in RfP Document	[New Annexure]	As per **Annexure 14 B-** FORMAT OF PAYMENT ON ORDER INSTRUMENT FOR BID SECURITY (**Annex-2**).
9.	New Annexure 15-A in RfP Document	[New Annexure]	As per Annexure 15 A- FORMAT OF INSURANCE SURETY BOND FOR CONTRACT PERFORMANCE GUARANTEE (**Annex-3**).
10.	New Annexure 15-B in RfP Document	[New Annexure]	As per Annexure 15 B- FORMAT OF PAYMENT ON ORDER INSTRUMENT FOR CONTRAT PERFORMANCE GUARANTEE (**Annex-4**).
11.	Term "Contract Performance Guarantee" under "DEFINITIONS" of TSA Document	**"Contract Performance Guarantee**" shall mean the irrevocable unconditional bank guarantee, submitted and to be submitted by the TSP or by the Selected Bidder on the Nodal Agency from a bank mentioned in Annexure 17 of the RFP, in the form attached here to as Schedule 8, in accordance with Article 3 of this Agreement and which shall include the additional bank guarantee furnished by the TSP under this Agreement;	"**Contract Performance Guarantee"** shall mean the irrevocable unconditional bank guarantee, or insurance surety bond or Payment on Order Instrument submitted and to be submitted by the TSP or by the Selected Bidder on behalf of the TSP to the Nodal Agency from a bank mentioned in Annexure 17 of the RFP, in the form attached here to as Schedule 8 (for bank guarantee) or Schedule-8A (for insurance surety bond issued by any of the insurance companies authorized by Insurance Regulatory and Development Authority of India), or Schedule-8B (for Payment on Order Instrument issued by PFC/REC/IREDA) in accordance with Article 3 of this Agreement and which shall include the additional bank guarantee or insurance surety

Sr. No	Clause No.	Existing Clause	New/Revised Clause
			bond or Payment on Order Instrument furnished by the TSP under this Agreement;
12.	New term "Payment on Order Instrument" under "DEFINITIONS", after term "Parent Company" of TSA Document	[New Term]	**"Payment on Order Instrument"** shall mean Letter of Undertaking from Indian Renewable Energy Development Agency Limited (IREDA) or Power Finance Corporation Limited (PFC) or REC Limited (REC) [the three non-banking financial institutions under Ministry of New & Renewable Energy (MNRE)/ Ministry of Power (MoP), to pay in case situation of default of Transmission Service Provider (TSP) in terms of tender conditions/Power Purchase Agreement (PPA) arises. Such Letter (s) will have same effect as that of a Bank Guarantee issued by any public any public sector bank. Such "Payment on Order instrument" would have terms and conditions similar to that of any Bank Guarantee given by any public sector bank and would promise to pay the Nodal Agency on demand within stipulated time. TSPs can seek such Letter(s) by offering due security to the above mentioned three non-banking financial institutions mentioned above (IREDA, PFC & REC). Nodal Agency shall not accept the instrument of 'Letter of Undertaking' as described above or in any other form, from any other non-banking financial institutions or bank, except IREDA, PFC & REC.
13.	New Schedule 8A in TSA Document	[New Schedule]	As per **Schedule 8A –** FORMAT OF INSURANCE SURETY BOND FOR CONTRACT PERFORMANCE GUARANTEE (**Annex-3**).
14.	New Schedule 8B in TSA Document	[New Schedule]	As per **Schedule 8B –** FORMAT OF PAYMENT ON ORDER INSTRUMENT FOR CONTRACT PERFORMANCE GUARANTEE (**Annex-4**).

Annex-1

ANNEXURE 14 A - FORMAT OF THE SURETY BOND FOR BID SECURITY

FORMAT OF THE SURETY BOND

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

In consideration of the .....[Insert name of the Bidder] submitting the Bid inter alia for establishing the Inter-State transmission system for _____[Name of Project] on build, own, operate and transfer basis, in response to the RFP dated _____ issued by _____[Name of BPC], and the Bid Process Coordinator (hereinafter referred to as BPC) agreeing to consider such Bid of …… [Insert the name of the Bidder] as per the terms of the RFP, the [Insert name of Surety Insurer issuing the surety bond and address of Head Office] (hereinafter referred to as "Surety Insurer") hereby agrees unequivocally, irrevocably and unconditionally to pay to _____[Name of BPC] or its authorized representative at _____[Address of BPC] forthwith on demand in writing from _____[Name of BPC] or any representative authorized by it in this behalf, any amount up to and not exceeding Rupees _____ Only (Rs _____ Crore) (the "Surety Bond"),on behalf of M/s…….[Insert name of the Bidder].

This surety bond shall be valid and binding on the Surety Insurer up to and including …… [Date to be inserted on the basis of Clause 2.11 of this RFP] and shall not be terminable by notice or any change in the constitution of the Surety Insurer or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between concerned parties.

Our liability under this Surety Bond is restricted to Rupees _____ Only (Rs ____ Crore). The Surety Bond shall remain in force until ……..[Date to be inserted on the basis of Clause 2.11 of this RFP]. _____ [Name of BPC] or its authorized representative shall be entitled to invoke this Surety bond until …… [Insert Date, which is one hundred eighty (180) days after the date in the preceding sentence]. The Surety Insurer hereby expressly agrees that it shall not require any proof except for the written demand from _____ [Name of BPC] or its authorized representative, made in any format, raised at the above mentioned address of the Surety Insurer, in order to make the said payment to _____ [Name of BPC] or its authorized representative.

The Surety Insurer shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection, disputes, or disparities raised by the Bidder or any other person. The Surety Insurer shall not require _____ [Name of BPC] or its authorized

representative to justify the invocation of this surety bond, nor shall the Surety Insurer have any recourse against _____ [Name of BPC] or its authorized representative in respect of any payment made hereunder.

This Surety Bond shall be interpreted in accordance with the laws of India.

The Surety Insurer represents that this Surety Bond has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Surety Insurer in the manner provided herein.

This Surety Bond shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Surety Insurer.

This Surety Bond shall be a primary obligation of the Surety Insurer and accordingly _____[Name of BPC] or its authorized representative shall not be obliged before enforcing this Surety Bond to take any action in any court or arbitral proceedings against the Bidder, to make any claim against or any demand on the Bidder or to give any notice to the Bidder to enforce any security held by _____[Name of BPC] or its authorized representative or to exercise, levy or enforce any distress, diligence or other process against the Bidder.

The Surety Insurer declares that it has power to issue this Surety Bond and discharge the obligations contemplated herein, the undersigned is duly authorised and has full power to execute this Surety Bond for and on behalf of the Surety Insurer.

Notwithstanding anything contained hereinabove, our liability under this surety bond is restricted to Rupees _____ Only (Rs ____ Crore) and it shall remain in force until …… [Date to be inserted on the basis of Clause 2.11 of RFP], with an additional claim period of one hundred eighty (180) days thereafter. We are liable to pay the guaranteed amount or any part thereof under this Surety Bond only if _____ [Name of BPC] or its authorized representative serves upon us a written claim or demand.

In witness where of:

Signature……..

Name: ……

Power of attorney No/ Employee No. as applicable.: ……...

For:

…… [Insert Name of the Surety-Insurance Company]
Banker's Seal and Full Address, including mailing address of the Head Office

Notes:

1. The Stamp Paper should be in the name of the Executing Insurance Company.

Annex-2

ANNEXURE 14B - Format of Payment on Order Instrument to be issued by IREDA/REC/PFC

(to be submitted separately for each Project)

No. Date

…..... [Insert name of BPC]

Reg: M/s_____(insert name of the bidding entity) **- Issuance of Payment on Order Instrument for an amount of Rs.**

Dear Sir,

1. At the request of M/s……. (Insert name of the bidding entity), this Payment on Order Instrument (POI) for an amount of Rs……. (Rupees (In words)) is being issued by M/s. (Insert Name of the POI issuing Agency) ('IREDA/REC/PFC'). This Payment on Order Instrument comes into force immediately.
2. In consideration of the ……. [Insert name of the Bidding Entity] (hereinafter referred to as 'Bidder') submitting the response to RFP issued by [Insert name of BPC] for the project …… [Insert name of the project] and [Insert name of BPC] considering such response to the RfP of M/s…….. [Insert the name of Bidding Entity] as per the terms of the RFP, the …….. [Insert name & address of IREDA/PFC/REC] hereby agrees unequivocally, irrevocably and unconditionally to pay to [Insert name of BPC] at [Insert Name of the Place from the address of the BPC] forthwith without demur on demand in writing from

…… [Insert name of BPC] or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees [Insert amount not less than the bid bond value indicated in RFP] only, on behalf of M/s. [Insert name of the Bidding Entity].

3. In consideration of the above facts, IREDA/REC/PFC, having its registered office at …… agrees to make payment for the sum of Rs (in words ……) to …….. [Insert name of BPC] on the following conditions:

   (a) IREDA/REC/PFC agrees to make payment of the above said amount unconditionally, without demur and without protest within a period of _____ days of receipt of request from [Insert name of BPC] within the validity period of this letter as specified herein;

   (b) The commitment of IREDA/REC/PFC, under this Payment on Order Instrument will have the same effect as that of the commitment under the Bank Guarantee issued by any Public Sector Bank and shall be enforceable in the same manner as in the case of a Bank Guarantee issued by a Bank and the same shall be irrevocable and shall be honoured irrespective of any agreement or its breach between IREDA/REC/PFC or its constituents notwithstanding any dispute that may be raised by them against [Insert name of BPC];

   (c) The liability of IREDA/REC/PFC continues to be valid and binding on IREDA/REC/PFC and shall not be terminated, impaired, and discharged by virtue of change in its constitution and specific liability under this POI shall be binding on its successors or assignors;

   (d) The liability of IREDA/REC/PFC shall continue to be valid and binding on IREDA/REC/PFC and shall not be terminated/impaired/discharged by any extension of time or variation and alteration made, given or agreed with or without knowledge or consent of the parties ([Insert name of BPC] and Bidder), subject however to the maximum extent of amount stated herein and IREDA/REC/PFC is not liable to any interest or costs etc.;

   (e) This Payment on Order Instrument can be invoked either partially or fully, till the date of validity;

(f) IREDA/REC/PFC agrees that it shall not require any proof in addition to the written demand by [Insert name of BPC] made in any format within the validity period. IREDA/REC/PFC shall not require [Insert name of BPC] to justify the invocation of the POI against the Bidder, to make any claim against or any demand against the Bidder or to give any notice to the Bidder;

(g) The POI shall be the primary obligation of IREDA/REC/PFC and …….. [Insert name of BPC] shall not be obliged, before enforcing the POI, to take any action in any court or arbitral proceedings against the Bidder;

(h) The POI shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other changes in constitution of IREDA/REC/PFC;

(i) Neither the …….. [Insert name of BPC] is required to justify the invocation of this POI nor shall IREDA/REC/PFC have any recourse against the …….. [Insert name of BPC] in respect of the payment made under this POI.

4. Notwithstanding anything contrary contained anywhere in this POI or in any other documents, this POI is and shall remain valid up to [Insert the date of validity of the POI as per Clause 2.11.1 of the RFP], with an additional claim period of three hundred and sixty-five (365) days thereafter and IREDA/REC/PFC shall make payment thereunder only if a written demand or request is raised within the said date and to the maximum extent of Rs……. and IREDA/REC/PFC shall in no case be liable for any interest, costs, charges, and expenses and IREDA's/REC's/PFC's liability in no case will exceed more than the above amount stipulated.

5. In pursuance of the above, IREDA/REC/PFC and [Insert name of BPC] have signed an Umbrella Agreement dated …… setting out the terms and conditions for issue of letter of undertaking by IREDA/REC/PFC to …….. [Insert name of BPC] and the said terms and conditions shall be read as a part of this POI issued for the project of PP mentioned above.

Thanking you,

Yours faithfully

Amendment No. 2 (dated: 16.06.2025) to RFP Documents "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process

For and on behalf of

M/s……

(Name of the POI issuing agency)

( )

General Manager

Copy to

M/s……. as per their request

( )

General Manager

Annex-3

ANNEXURE 15A to the RfP

SCHEDULE 8A of TSA

(ISB for CPG)

FORMAT FOR SURETY INSURANCE CONTRACT

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.

Foreign entities submitting Bids are required to follow the applicable law of India)

In consideration of the ..... [Insert name of the SPV or Selected Bidder on behalf of SPV or Lead Member in case of the Consortium, with address] (hereinafter referred to as the **'Principal Debtor'** for the purposes of this Surety Insurance Contract as provided in Section 126 of the Indian Contract Act, 1872) having been selected to undertake the Transmission Project on the terms and conditions contained in the Transmission Service Agreement dated ……/ to be executed as per the Model Transmission Service Agreement provided along with the Request for Proposal (**'RFP'**) and other RFP Project Documents, subject to the condition of providing a Performance Bank Guarantee or a Surety Insurance Contract guaranteeing/insuring the due performance of the obligations under the Transmission Service Agreement, to the Central Transmission Utility of India Limited (**'CTUIL'**) [herein after referred to as the Nodal Agency], the [Insert name and address of the Insurance Company issuing the Surety Insurance Contract and address of the head office] (hereinafter referred to as "**Surety**") hereby agrees unequivocally, irrevocably, absolutely and unconditionally, without demur, to pay to the Nodal Agency at ..... [Insert Place and Address of the Nodal Agency indicated in Transmission Service Agreement, or to the designated Bank Account of the Nodal Agency, namely……..] forthwith on demand in writing from the Nodal Agency, or any Officer authorized by it in this behalf, intimated to the Surety at the address mentioned above, any amount as may be decided by the Nodal Agency not exceeding Rupees ……Crores (Rs……) only [Insert the amount of the Surety Insurance Contract]

The Surety hereby acknowledges, accepts and confirms that the Surety has received from the Principal Debtor, by way of premium the entire consideration for the Surety to execute, in favour of the Nodal Agency, this Surety Insurance Contract, as extended by the Surety from time to time and assuming the obligation to pay to the Nodal Agency the amount in terms hereof, without any requirement for payment of any

other consideration to the Surety by the Principal Debtor, or otherwise.

This Surety Insurance Contract shall be valid and binding on the Surety, as the principal obligation of the Surety to pay on demand by the Nodal Agency, and shall not be terminable by notice or any change in the constitution of the Surety or the term of the Transmission Service Agreement or by any other reasons whatsoever and the liability hereunder of the Surety shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed (with or without the knowledge or consent of the Surety) by or between the Principal Debtor and the Nodal Agency.

The liability of the Surety under this Surety Insurance Contract is restricted to Rupees …….. Crores (Rs) only. The Surety Insurance Contract shall remain in force until [Insert the date of validity of the Surety Insurance Contract]. The Nodal Agency shall be entitled to invoke this Surety Insurance Contract up to three hundred sixty five (365) days after the last date of the validity of this Surety Insurance Contract.

The Surety hereby expressly agrees that it shall not require any proof except for the written demand from the Nodal Agency, containing the statement that the contractor has failed to meet its contractual obligations raised at the above mentioned address of the Surety (address of Surety office should be a place in NCR only) and the Surety shall pay the amount without reference to the Principal Debtor.

Any such demand made by the Nodal Agency on the Surety shall be conclusive and binding not withstanding any difference between the Nodal Agency and the Principal Debtor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Surety undertakes not to revoke this guarantee during its currency without previous consent of the Nodal Agency and further agrees that the Surety Insurance Contract herein contained shall continue to be enforceable till the Nodal Agency discharges this contract or till the expiry of tenor(including Claim period) whichever is earlier.

The Surety shall make payment hereunder within two (02) working days on first demand without restriction or conditions and notwithstanding any objection by the Principal Debtor, namely, …… [Insert name of SPV], or ……. [Insert name of the Selected Bidder], or ……. [Insert name of the TSP] and/or any other person. The Surety shall not require the Nodal Agency to justify the invocation of this Surety Insurance Contract, nor shall the Surety have any recourse against the Nodal Agency in respect of any payment made hereunder.

This SURETY INSURANCE CONTRACT shall be interpreted in accordance with the laws of India.

This SURETY INSURANCE CONTRACT is being executed by the Surety in terms of the IRDAI (Surety Insurance Contract) Guidelines, 2022 and the Surety hereby acknowledges, accepts and confirms that this Surety Insurance Contract shall be a Contract of Guarantee as provided under Section 126 of the Indian Contract Act, 1872 and further shall be covered by Section 14(3) (b) of the Insolvency and Bankruptcy Code, 2016 (as amended) shall be enforceable as such.

The Surety represents that this Surety Insurance Contract has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Surety in the manner provided herein. -

This SURETY INSURANCE CONTRACT shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Surety.
In order to give effect to this surety Bond, the Nodal Agency shall be entitled to act as if the surety insurer were the principal debtor and any change in the constitution of the contractor and/or the surety insurer, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the surety insurer under this surety Bond.

This SURETY INSURANCE CONTRACT shall be a primary obligation of the Surety as a Principal to pay on demand by the Nodal Agency and the Nodal Agency shall not be obliged before enforcing this Surety Insurance Contract to take any action in any court or arbitral proceedings against the Principal Debtor, namely, …… [Insert name of SPV], or [Insert name of the Selected Bidder], or [Insert name of the TSP] and/or any other person, as the case may be, to make any claim against or any demand on the Principal Debtor, namely, ... [Insert name of SPV], or ……. [Insert name of the Selected Bidder], or ..... [Insert name of the TSP] and/or any other person, as the case may be, or to give any notice to Principal Debtor, namely…… [Insert name of SPV], or ……. [Insert name of the Selected Bidder], or …..... [Insert name of the TSP] and/or any other person, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against the Principal Debtor, namely, …… [Insert name of SPV], or ……. [Insert name of the Selected Bidder], or ……. [Insert name of the TSP] and/or any other person, as the case may be.

The Surety acknowledges that this Surety Insurance Contract is not personal to the Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and

obligations under the Transmission Service Agreement Provided that any such assignment shall be in compliance with the relevant provisions of the Insurance Act 1938

The Surety hereby agrees and acknowledges that the Nodal Agency shall have a right to invoke this Surety Insurance Contract either in part or in full, as it may deem fit. In case of invocation of this Surety Insurance Contract in part, besides making payment for the part of Surety Insurance Contract invoked, surety at the request of nodal agency shall amend the value of Surety Insurance Contract to the extent of balance amount.

The Surety undertakes not to revoke this Surety Contract during its currency, except with the previous express consent of the Nodal Agency in writing and declares and warrants that it has the power to issue this Surety Contract and the undersigned has full powers to do so on behalf of the Surety

In witness where of:

Signature……..

Name: ……

Power of attorney No/ Employee No. as applicable.: ……...

For:

… .....[Insert Name of the Surety-Insurance Company]

Banker's Seal and Full Address, including mailing address of the Head Office

Notes:

1. The Stamp Paper should be in the name of the Executing Insurance Company.

Annex-4

ANNEXURE 15B to the RfP

SCHEDULE 8B of TSA

(POI for CPG)

Format for Issuance of Payment on Order Instrument

Dear Sir,

1. Indian Renewable Energy Development Agency Limited ('IREDA")/PFC/REC has sanctioned a non-fund based limit loan of Rs. (Rupees…… Only) to M/s. …… [Insert name of SPV or selected Bidder] under the Loan Agreement executed on …… to execute Transmission System Projects.
2. In consideration of the .....[Insert name of the SPV or Selected Bidder on behalf of SPV or Lead Member in case of the Consortium, with address] for the purposes of this Payment on Order Instrument ("POI") having been selected to undertake the Transmission Project on the terms and conditions contained in the Transmission Service Agreement dated ……/ to be executed as per the draft of the Model Transmission Service Agreement provided along with the Request for Proposal („RFP") and other RFP Project Documents, subject to the condition of providing a POI guaranteeing the due performance of the obligations under the Transmission Service Agreement to the Nodal Agency/Central Transmission Utility of India Limited („CTUIL"), the……[Insert name and address of the non-banking financial institutions(IREDA/PFC/REC) issuing the POI and address of the head office] (hereinafter referred to as **"Guarantor")** hereby agrees unequivocally, irrevocably, absolutely and unconditionally, without demur, to pay to the Nodal Agency at ..... [Insert Place and Address of the Nodal Agency indicated in Transmission Service Agreement, or to the designated Bank Account of the Nodal Agency, namely……..] forthwith on demand in writing from the

Nodal Agency, or any Officer authorized by it in this behalf, intimated to the Guarantor at the address mentioned above, any amount as may be decided by the Nodal Agency not exceeding Rupees Crores (Rs) only [Insert the amount of Payment on Order Instrument]

3. At the request of ……..and on behalf of M/s. ……, [Insert name of SPV or selected Bidder] this Payment on Order Instrument (POI) for an amount of Rs. …….. (Rupees ……..) is being issued with IREDA/PFC/REC assuming the obligations to remit such amount to CTUIL from the sanctioned loan.
4. This Payment on Order Instrument comes into force immediately and IREDA/PFC/REC confirms that it has sufficient amount out of the sanctioned loan and shall maintain the required amount to pay under this Payment on Order Instrument, during the validity and claim period of this Payment on Order Instrument.
5. This POI has been issued by IREDA/PFC/REC utilizing the credit limit of M/s……..[Insert name of SPV or selected Bidder] IREDA/PFC/REC confirms that its liability to pay under this Payment on Order Instrument shall be primary and independent of whether at the time of invocation of Payment on Order Instrument, the sanctioned funds are available or not and notwithstanding, the status of M/s. …… [Insert name of SPV or selected Bidder] at the relevant time and to whether IREDA/PFC/REC is able to recover the amount advanced by it to the said developer.
6. IREDA/PFC/REC and M/s. [Insert name of SPV or selected Bidder] hereby acknowledges, accepts and confirms that this Payment on Order Instrument shall be a Contract of Guarantee as provided under Section 126 of the Indian Contract Act, 1872 and further shall be covered by Section 14(3) (b) of the Insolvency and Bankruptcy Code, 2016 (as amended) shall be enforceable as such.
7. IREDA/PFC/REC liability under this POI is restricted to Rupees Crores (Rs……) only. This POI shall remain in force until…… [Insert the date of validity of the POI]. The Nodal Agency shall be entitled to invoke this POI up to three hundred

sixty-five (365) days after the last date of the validity of this POI. This POI shall be extended from time to time for such period, as may be desired by the TSP.

8. The Guarantor hereby expressly agrees that it shall not require any proof except for the written demand from the Nodal Agency, raised at the above-mentioned address of the Guarantor (address of Guarantor office should be in NCR only) and the Guarantor shall pay the amount to the Nodal Agency without reference to the TSP.
9. Any such demand made by the Nodal Agency on the Guarantor shall be conclusive and binding not withstanding any difference between the Nodal Agency and the TSP or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Guarantor undertakes not to revoke this guarantee during its currency without previous consent of the Nodal Agency and further agrees that the POI herein contained shall continue to be enforceable till the Nodal Agency discharges this contract or till the expiry of tenure or (including Claim period) whichever is earlier.
10. The Guarantor shall make payment hereunder within two (02) working days on first demand without restriction or conditions and notwithstanding any objection or disputes raised by the TSP, namely, …… [Insert name of SPV], or [Insert name of the Selected Bidder], or ……. [Insert name of the TSP] and/or any other person. The Guarantor shall not require the Nodal Agency to justify the invocation of this POI, nor shall the Guarantor have any recourse against the Nodal Agency in respect of any payment made hereunder.
11. This POI shall be interpreted in accordance with the laws of India.
12. The Guarantor represents that this POI Contract has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor in the manner provided herein.
13. This POI shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor.

14. This POI Contract shall be a primary obligation of the Guarantor as a Principal to pay on demand by the Nodal Agency and the Nodal Agency shall not be obliged before enforcing this POI Contract to take any action in any court or arbitral proceedings against the TSP, namely,…… [Insert name of SPV], or..... [Insert name of the Selected Bidder], or [Insert name of the TSP] and/or any other person, as the case may be to make any claim against or any demand on the TSP, namely, …… [Insert name of SPV], or ……. [Insert name of the Selected Bidder], or ….....[Insert name of the TSP] and/or any other person, as the case may be, or to give any notice to TSP, namely…… [Insert name of SPV], or [Insert name of the Selected Bidder], or ……. [Insert name of the TSP] and/or any other person, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against the TSP, namely, …… [Insert name of SPV], or .....[Insert name of the Selected Bidder], or ……. [Insert name of the TSP] and/or any other person, as the case may be.
15. The Guarantor acknowledges that this POI Contract is not personal to the Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.
16. The Guarantor hereby agrees and acknowledges that the Nodal Agency shall have a right to invoke this POI Contract either in part or in full, as it may deem fit. In case of invocation of this POI Contract in part, besides making payment for the part of POI Contract invoked, Guarantor at the request of Nodal Agency shall amend the value of POI Contract to the extent of balance amount.

IN WITNESS WHERE OF the non- banking financial institutions through its authorized officer, has set its hand and stamp on this……. day of……..at……

Signature……. Name: …… Power of attorney No.: ……... For:

Amendment No. 2 (dated: 16.06.2025) to RFP Documents "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process

….....[Insert Name of the non- banking financial institutions Company]

Seal and Full Address, including mailing address of the Head Office

Amendment dated 22.05.2025 to RFP Documents for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process.

S. No.	Existing Clause	New/Revised Clause
1.	All the relevant clauses of RFP, TSA & SPA **Bid Bond:** Rs.43.40 Crore (Rupees Forty Three Crore Forty Lakh Only) **Contract Performance Guarantee:** Rs.108.50 Crore (Rupees One Hundred Eight Crore Fifty Lakh Only) **Additional Contract Performance Guarantee:** Rs.10.85 Crore (Rupees Ten Crore Eighty Five Lakh Only) **Monetary Limitation of liability:** Rs.7.23 Crore (Rupees Seven Crore Twenty Three Lakh Only).	All the relevant clauses of RFP, TSA & SPA **Bid Bond:** Rs. 42.40 Crore (Rupees Forty Two Crore Forty Lakh Only) **Contract Performance Guarantee:** Rs.106.00 Crore (Rupees One Hundred Six Crore Only) **Additional Contract Performance Guarantee:** Rs.10.60 Crore (Rupees Ten Crore Sixty Lakh Only) **Monetary Limitation of liability:** Rs.7.07 Crore (Rupees Seven Crore Seven Lakh Only).
2.	**RfP** **2.1.2** Technical requirement to be met by the Bidding Company or Lead Member of Bidding Consortium. The Bidder must fulfil any one of the following technical requirements: (i) Experience of development of projects in the Infrastructure Sector in the last five (5) years with aggregate capital expenditure of not less than Rs.2,170 Crore (Rupees Two Thousand One Hundred Seventy Crore Only) or equivalent USD (calculated as per provisions in Clause 3.4.1). However, the capital expenditure of each project shall not be less than Rs.434 Crore (Rupees Four Hundred Thirty Four Crore Only) or equivalent USD (calculated as per provisions in Clause 3.4.1). …. OR	**RfP** **2.1.2** Technical requirement to be met by the Bidding Company or Lead Member of Bidding Consortium. The Bidder must fulfil any one of the following technical requirements: (i) Experience of development of projects in the Infrastructure Sector in the last five (5) years with aggregate capital expenditure of not less than **Rs.2,120 Crore (Rupees Two Thousand One Hundred Twenty Crore Only)** or equivalent USD (calculated as per provisions in Clause 3.4.1). However, the capital expenditure of each project shall not be less than **Rs.424 Crore (Rupees Four Hundred Twenty Four Crore Only)** or equivalent USD (calculated as per provisions in Clause 3.4.1). …. OR

Amendment dated 22.05.2025 to RFP Documents for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process.

S. No.	Existing Clause	New/Revised Clause
	(ii) Experience in construction of project in infrastructure sector: The Technically Evaluated Entity should have received aggregate payments not less than Rs.2,170 Crore (Rupees Two Thousand One Hundred Seventy Crore Only) or equivalent USD (calculated as per provisions in Clause 3.4.1) from its client(s) for construction works fully completed during the last 5 (five) financial years. However, the payment received from each project shall not be less than Rs.434 Crore (Rupees Four Hundred Thirty Four Crore Only) or equivalent USD (calculated as per provisions in Clause 3.4.1). …	(ii) Experience in construction of project in infrastructure sector: The Technically Evaluated Entity should have received aggregate payments not less than **Rs.2,120 Crore (Rupees Two Thousand One Hundred Twenty Crore Only)** or equivalent USD (calculated as per provisions in Clause 3.4.1) from its client(s) for construction works fully completed during the last 5 (five) financial years. However, the payment received from each project shall not be less than **Rs.424 Crore (Rupees Four Hundred Twenty Four Crore Only)** or equivalent USD (calculated as per provisions in Clause 3.4.1). …
3.	**RfP** **2.1.3.1** The Bidder must fulfil following financial requirements: **A. Net-worth:** Net-worth should be not less than Rs.868 Crore (Rupees Eight Hundred Sixty Eight Crore Only) or equivalent USD (calculated as per provisions in Clause 3.4.1) computed as the Networth based on unconsolidated audited annual accounts (refer to Note below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years should not be negative.	**RfP** **2.1.3.1** The Bidder must fulfil following financial requirements: **A. Net-worth:** Net-worth should be not less than **Rs.848 Crore (Rupees Eight Hundred Forty Eight Crore Only)** or equivalent USD (calculated as per provisions in Clause 3.4.1) computed as the Networth based on unconsolidated audited annual accounts (refer to Note below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years should not be negative.
4.	**RfP** **ANNEXURE 7B - FORMAT FOR TECHNICAL REQUIREMENT** …. We certify that M/s. …….. (Insert name of Technically Evaluated Entity (ies)) have experience of development of projects in the infrastructure sector in the last five (5) years whose aggregate capital expenditure is Rs. …… Crore or equivalent USD*. We further certify that the capital expenditure of any single project considered for	**RfP** **ANNEXURE 7B - FORMAT FOR TECHNICAL REQUIREMENT** …. We certify that M/s. …….. (Insert name of Technically Evaluated Entity (ies)) have experience of development of projects in the infrastructure sector in the last five (5) years whose aggregate capital expenditure is Rs. …… Crore or equivalent USD*. We further certify that the capital expenditure of any single project considered for

Amendment dated 22.05.2025 to RFP Documents for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process.

S. No.	Existing Clause	New/Revised Clause
	meeting the technical Qualification Requirement is not less than Rs.434 Crore (Rupees Four Hundred Thirty Four Crore Only) or equivalent USD*. For this purpose, capital expenditure incurred on projects which have been either wholly completed / commissioned or partly completed projects put under commercial operation and for which operation has commenced till at least seven (7) days prior to the Bid Deadline has been considered.	meeting the technical Qualification Requirement is not less than **Rs.424 Crore (Rupees Four Hundred Twenty Four Crore Only)** or equivalent USD*. For this purpose, capital expenditure incurred on projects which have been either wholly completed / commissioned or partly completed projects put under commercial operation and for which operation has commenced till at least seven (7) days prior to the Bid Deadline has been considered.

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

Sub: Notice for extension of RFP bid submission for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **July 08, 2025 till 15:00 hrs (IST) to July 24, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e. **July 24, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

Amendment no. 4 (dated: 03.07.2025) to RFP Documents for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" through tariff based competitive bidding process.

<table>
<tr><th>S. No.</th><th>Clause No.</th><th>Existing Clause</th><th>New/Revised Clause</th></tr>
<tr><td>1</td><td>RFP & TSA
Specific Technical Requirements for Substation
Clause no. B.1.2 (viii)</td><td>viii) 765/400/220 kV Kurnool-IV PS:
…….
220 kV Bus Sectionalization shall be with the following feeder distribution.
<table>
<tr><th>220 kV Bus Section-1</th><th>220 kV Bus Section-2</th></tr>
<tr><td>a) 3 Nos. of existing 400/220 kV ICT
b) 5 Nos. of existing 220 kV Lines</td><td>a) 1 No. of existing 400/220 kV ICT
b) 1 No. of existing 220 kV Line
c) 4 Nos. Present 220 kV Line.
d) 3 Nos. Present 400/220 kV ICT.</td></tr>
<tr><th>220 kV Bus Section-3</th><th>220 kV Bus Section-4</th></tr>
<tr><td>a) 6 Nos. Present 400/220 kV ICT.
b) 8 Nos. Present 220 kV Lines.</td><td>a) 1 Nos. Present 400/220 kV ICT.
b) 1 Nos. Present 220 kV Line.
c) 4 Nos. future 400/220 kV ICT.
d) 7 Nos. future 220 kV Lines.</td></tr>
</table>
…….</td><td>viii) 765/400/220 kV Kurnool-IV PS:
…….
220 kV Bus Sectionalization shall be with the following feeder distribution.
<table>
<tr><th>220 kV Bus Section-1</th><th>220 kV Bus Section-2</th></tr>
<tr><td>a) 3 Nos. of existing 400/220 kV ICT
b) 5 Nos. of existing 220 kV Lines</td><td>a) 1 No. of existing 400/220 kV ICT
b) 1 No. of existing 220 kV Line
c) 5 Nos. Present 220 kV Line.
d) 4 Nos. Present 400/220 kV ICT.</td></tr>
<tr><th>220 kV Bus Section-3</th><th>220 kV Bus Section-4</th></tr>
<tr><td>a) 5 Nos. Present 400/220 kV ICT.
b) 7 Nos. Present 220 kV Lines.</td><td>a) 1 Nos. Present 400/220 kV ICT.
b) 1 Nos. Present 220 kV Line.
c) 4 Nos. future 400/220 kV ICT.
d) 7 Nos. future 220 kV Lines.</td></tr>
</table>
……..</td></tr>
</table>

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

Sub: Notice for extension of RFP bid submission for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **July 24, 2025 till 15:00 hrs (IST) to July 31, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e. **July 31, 2025 at 15:30 hrs (IST).**

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Sub: Notice for extension of RFP bid submission for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **July 31, 2025 till 15:00 hrs (IST) to August 13, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e. **August 13, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

S. No.	Existing Provisions	Revised Provisions
1.	**Annexure 1 - Covering Letter of RFP document** 4. We hereby agree and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. 11/5/2018 - Coord. dated 28.07.2020 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard.	**Annexure 1 - Covering Letter of RFP document** 4. We hereby agree and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders No. P45021/2/2017-PP (BE-II)-Part (4) Vol.II dated 19.07.2024 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard.

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08.08.2025

Sub: Notice for extension of RFP bid submission for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **August 13, 2025 till 15:00 hrs (IST) to August 27, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids wisll be opened on same day i.e. **August 27, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

S. No.	Existing Provisions	Revised Provisions
1.	**Article 4, Clause 4.1 (h) of TSA** to comply with Ministry of Power Orders No. P45021/2/2017-PP (BEII)-Part (4) Vol.II dated 19.07.2024 as well as other Guidelines issued by Govt. of India pertaining to this;	**Article 4, Clause 4.1 (h) of TSA** to comply with Ministry of Power order No. 25-11/6/2018 – PG dated 02.07.2020 as well as other Guidelines issued by Govt. of India pertaining to this;

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

August 25, 2025

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **August 27, 2025 till 15:00 hrs (IST) to September 04, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e. **September 04, 2025 at 15:30 hrs (IST).**

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(A wholly owned subsidiary of PFC Ltd.)

September 01, 2025

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **September 04, 2025 till 15:00 hrs (IST) to September 11, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e. **September 11, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

September 08, 2025

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **September 11, 2025 till 15:00 hrs (IST) to September 18, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e. **September 18, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

Amendment No. 7 dated 12.09.2025 to the RFP documents for selection of Bidder as Transmission Service Provider for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"

S. No.	Existing Provisions as per RFP documents	Revised Provisions
1.	RFP Section-1 "Introduction", Clause 1.3 Description of the Transmission Scheme TSA Schedule: 1, Clause A Description of the Transmission Scheme	Refer S. No. 1 of Annexure-A of Attachment No. 1.
2.	RFP Request for Proposal Notification, S. No. 2 (Page No. 3) Section-1 "Introduction", Clause 1.2 Table for Scope of Work TSA Schedule: 1, Clause B Detailed Scope of Work	Refer S. No. 2 of Annexure-A of Attachment No. 1.
3.	RFP Annexure-18 "Grid Map of the Project Transmission Grid Map	Refer S. No. 3 of Annexure-A of Attachment No. 1.
4.	RFP Section-2 "Information and Instructions for Bidders" Clause 2.6 "Project Schedule TSA Schedule: 2, Scheduled COD and	Refer Annexure-B of Attachment No. 1.

Amendment No. 7 dated 12.09.2025 to the RFP documents for selection of Bidder as Transmission Service Provider for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"

S. No.	Existing Provisions as per RFP documents	Revised Provisions
	Schedule: 5, Quoted Transmission Charges	
5.	RFP Annexure-C "Location Details of Existing / Planned Substations"	Refer Annexure-C of Attachment No. 1.
6.	RFP & TSA Specific Technical Requirements for Transmission Line and Specific Technical Requirements for Substation	Refer Annexure-D of Attachment No. 1.
7.	RFP & TSA Specific Technical Requirements for Communication	Refer Annexure-E, Appendix-F.1, Annexure-F.1, Annexure-F.2 and Annexure-G of Attachment No. 1.
8.	RFP Frequently Asked Queries:	Refer Annexure-H of Attachment No. 1.
9.	RFP Annexure 8-Undertaking and Details of Equity Investment S. No. 8	RFP Annexure 8-Undertaking and Details of Equity Investment S. No. 8 We confirm that our Bid meets the Scheduled COD of each transmission Element and the Project as specified below:

<table>
<tr><th>S. No.</th><th>Existing Provisions as per RFP documents</th><th colspan="5">Revised Provisions</th></tr>
<tr><td></td><td></td><td colspan="5"><table>
<tr><th>S. No.</th><th>Name of the Transmission Element</th><th>Scheduled COD as per Gazette Notification</th><th>% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project</th><th>Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element</th></tr>
<tr><td>1.</td><td>Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs</td><td rowspan="3">24 months</td><td rowspan="3">8.57</td><td>Kurnool-IV Phase-I Transmission System and Element at Sl. No. 2 & 3</td></tr>
<tr><td>2.</td><td>220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects</td><td>Kurnool-IV Phase-I Transmission System and Element at Sl. No. 1 & 3</td></tr>
<tr><td>3.</td><td>400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects</td><td>Kurnool-IV Phase-I Transmission System and Element at Sl. No. 1 & 2</td></tr>
<tr><td>4.</td><td>Augmentation of Kurnool-IV PS by 765/400 kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs</td><td></td><td></td><td>Kurnool-IV Phase-I Transmission System and Element at Sl. No. 5-10</td></tr>
</table></td></tr>
</table>

S. No.	Existing Provisions as per RFP documents	Revised Provisions				
		5.	220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	30 months	91.43	Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4 & 6-10
		6.	400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4,5 & 7-10
		7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4,5,6 & 8-10
		8.	LILO of Kurnool-IV – Bidar 765 kV D/C line at Shadnagar (about 50 kms)			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-7, 9 & 10
		9.	Shadnagar – Shadnagar GIS S/s (TGTRANSCO) 400 kV quad D/C line (about 50 kms) {TGTRANSCO to upgrade Shadnagar GIS S/s			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-8 & 10

<table>
<tr><th>S. No.</th><th>Existing Provisions as per RFP documents</th><th>Revised Provisions</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td></td><td>(TGTRANSCO) to 400 kV in matching time frame)</td><td></td><td></td><td></td></tr>
<tr><td>10.</td><td>Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line (about 60 kms)</td><td></td><td></td><td>Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-9</td></tr>
</table>

We agree that the payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after the successful commissioning of Element(s) which are pre - required for declaring the commercial operation of such Element as mentioned in the above table.

Scheduled COD for the Project: As above.</td></tr>
</table>

Annexure – A

Transmission System for Integration of Kurnool-IV REZ - Phase-II

1. Description of the Transmission Scheme

Govt. of India has set a target of 500 GW generation capacity from non-fossil fuel resources by 2030. In this direction, MNRE has identified addition of 86 GW RE Potential in the State of Andhra Pradesh, Telangana, Karnataka and Tamil Nadu (Offshore) in Southern Region. Out of the identified (86 GW) RE Potential in Southern Region, 51 GW has been identified in the State of Andhra Pradesh (Ananthapur– 20 GW, Kurnool – 23 GW & Kadapa – 8 GW).

Transmission System for integration of Kurnool-IV REZ was evolved for potential REZ in Kurnool area in two phases. Presently, Transmission System for integration of Kurnool-IV REZ Phase-I is under implementation and details of the transmission scheme is as below:

Transmission System for Integration of Kurnool-IV REZ - Phase-I

- Establishment of 4x1500 MVA, 765/400 kV & 4x500 MVA, 400/220 kV Kurnool-IV Pooling Station near Kurnool, Andhra Pradesh along with 2x330 MVAr (765 kV) bus reactors at Kurnool-IV PS with provision of two (2) sections of 4500 MVA each at 400 kV level
- Kurnool-IV – Bidar 765 kV D/C line (about 330 kms) with 330 MVAr SLR (convertible) at both end on both circuits
- Kurnool-IV – Kurnool-III PS 765 kV D/C line (about 150 kms) with 240 MVAr SLR (convertible) at Kurnool-IV end on both circuits
- ± 300 MVAr STATCOM at Kurnool-IV, 2x125 MVAr MSR
- Augmentation of 1x1500 MVA, 765/400 kV ICT (3rd) at C'Peta
- LILO of Vijayawada-Nellore 400 kV D/C line at C'Peta (about 20 kms)

Presently, Connectivity of about 4300 MW (3403 MW at 220 kV level and 900 MW at 400 kV level) has been granted / agreed for grant at Kurnool-IV PS with Phase-I Transmission System. In addition to the above, connectivity of about 3200 MW (2700 MW at 220 kV level and 500 MW at 400 kV) has already been received at Kurnool-IV PS. In view of above, for grant of connectivity to above applications, additional system strengthening scheme beyond Kurnool-IV PS is required. Accordingly, Transmission System for Integration of Kurnool-IV REZ - Phase-II was identified.

The Transmission System was discussed and agreed in the 36th CMETS-SR held on 19.12.2024. The scheme was further discussed and agreed in the special SRPC meeting held on 04.02.2025.

The National Committee on Transmission in its 28th meeting held on 06.03.2025 has recommended the implementation of the subject transmission scheme through TBCB route and has identified the PFCCL as BPC for bidding of the transmission scheme.

Ministry of Power vide Gazette notification dated 27.03.2025 has notified the transmission scheme for implementation through TBCB route.

2. Detailed Scope of Work

Transmission System for integration of Kurnool-IV REZ - Phase-II

S. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
1.	Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs • 400/220 kV, 500 MVA, ICTs – 4 Nos. • 400 kV ICT bays – 4 Nos. • 400 kV Bus Sectionalizer: 1 set • 220 kV ICT bays – 4 Nos. • 220 kV Bus Sectionalizer: 1 set • 220 kV Bus Coupler (BC) Bay – 1 Nos. • 220 kV Transfer Bus Coupler (TBC) Bay – 1 No.	24 Months
2.	220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 220 kV line bays – 5 Nos.	24 Months
3.	400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 400 kV line bays – 1 No.	24 Months
4.	Augmentation of Kurnool-IV PS by 765/400 kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs • 765/400 kV, 1500 MVA, ICTs – 2 Nos. • 765 kV ICT bays – 2 Nos. • 400 kV ICT bays – 2 Nos. • 400/220 kV, 500 MVA, ICTs – 6 Nos. • 400 kV ICT bays – 6 Nos. • 220 kV ICT bays – 6 Nos. • 220 kV Bus Sectionalizer: 1 set • 220 kV Bus Coupler (BC) Bay – 1 Nos. • 220 kV Transfer Bus Coupler (TBC) Bay – 1 No.	30 Months
5.	220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 220 kV line bays – 8 Nos.	30 Months
6.	400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 400 kV line bays – 1 No.	30 Months

S. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard • 765/400 kV, 1500 MVA, ICTs – 4 Nos. (13x500 MVA including 1 spare unit) • 765 kV ICT bay – 4 Nos. • 400 kV ICT bay – 4 Nos. • 765 kV line bays – 4 Nos. (at Shadnagar for termination of LILO of Kurnool-IV – Bidar 765 kV D/C line) • 765 kV, 330 MVAr Bus Reactors – 2 Nos. (7x110 MVAr inc. 1 switchable spare unit) • 765 kV Bus Reactor bays – 2 Nos. • 400 kV line bays – 4 Nos. (at Shadnagar for termination of Shadnagar – Shadnagar (TGTRANSCO) and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C lines) **Future Space Provisions**: • 765/400 kV, 1500 MVA, ICTs – 2 Nos. • 765 kV ICT bays – 2 Nos. • 400 kV ICT bays – 2 Nos. • 765 kV line bays – 8 Nos. (with provision for SLR) • 400 kV line bays – 8 Nos. (with provision for SLR) • 400 kV Bus Sectionalizer: 1 set **Future Space Provisions for 220 kV switchyard:** • 400/220 kV, 500 MVA, ICTs – 10 Nos. • 400 kV ICT bays – 10 Nos. • 220 kV ICT bays – 10 Nos. • 220 kV line bays – 16 Nos. • 220 kV Bus Sectionalizer: 3 set • 220 kV Bus Coupler (BC) Bay – 4 No. • 220 kV Transfer Bus Coupler (TBC) Bay – 4 No.	30 Months
8.	LILO of Kurnool-IV – Bidar 765 kV D/C line at Shadnagar (about 50 kms)	30 Months
9.	Shadnagar – Shadnagar GIS S/s (TGTRANSCO) 400 kV quad D/C line (about 50 kms) {TGTRANSCO to upgrade Shadnagar GIS S/s (TGTRANSCO) to 400 kV in matching time frame} with 400 kV GIS line bays – 2 Nos. (at Shadnagar GIS S/s (TGTRANSCO))	30 Months

S. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
	• 400 kV GIS line bays – 2 Nos. (at Shadnagar GIS (TGTRANSCO))	
10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line (about 60 kms) • 400 kV line bays – 2 Nos. (at Kethiredipally (TGTRANSCO))	30 Months

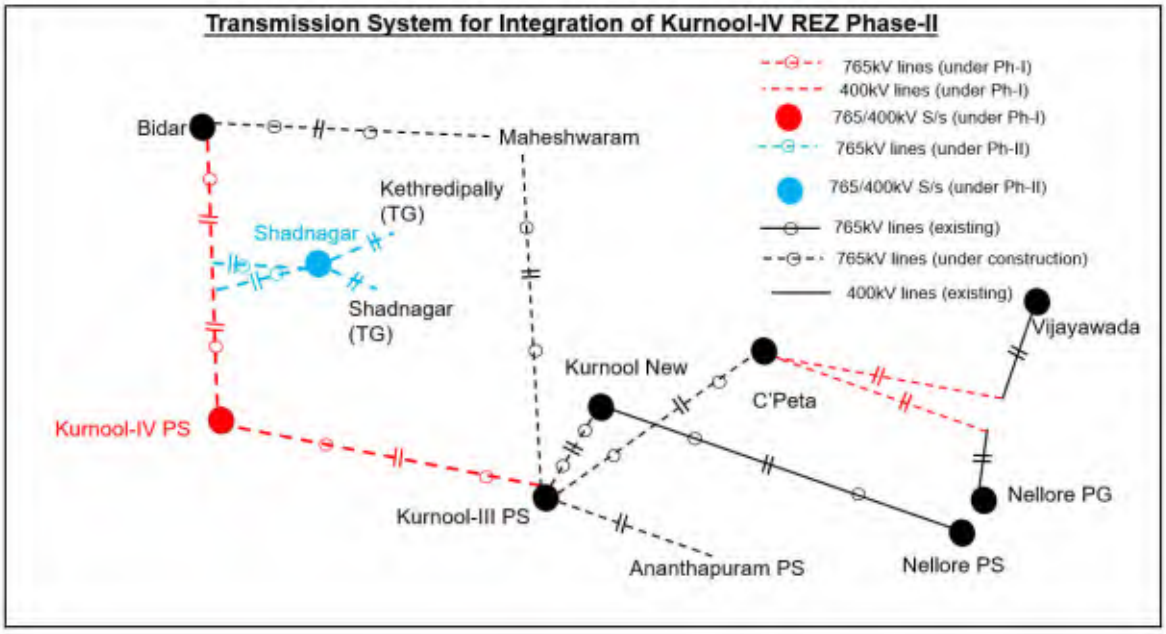
Note:

i) TSP of Kurnool-IV Phase-I shall provide space at Kurnool-IV PS for carrying out above augmentation works

ii) TGTRANSCO shall provide space for 2 nos. of 400 kV line bays at Shadnagar GIS (TGTRANSCO) and Kethireddipally each for termination of Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/C line and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line

3. Transmission Grid Map:

Transmission Grid Map indicating the location of the Project is as below.



Annexure – B

Transmission System for Integration of Kurnool-IV REZ - Phase-II

Sl. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs	24 months	8.57	Kurnool-IV Phase-I Transmission System and Element at Sl. No. 2 & 3
2.	220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 1 & 3
3.	400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 1 & 2
4.	Augmentation of Kurnool-IV PS by 765/400 kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs	30 months	91.43	Kurnool-IV Phase-I Transmission System and Element at Sl. No. 5-10
5.	220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4 & 6-10
6.	400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4,5 & 7-10
7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4,5,6 & 8-10

Sl. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
8.	LILO of Kurnool-IV – Bidar 765 kV D/C line at Shadnagar (about 50 kms)			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-7, 9 & 10
9.	Shadnagar – Shadnagar GIS S/s (TGTRANSCO) 400 kV quad D/C line (about 50 kms) {TGTRANSCO to upgrade Shadnagar GIS S/s (TGTRANSCO) to 400 kV in matching time frame}			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-8 & 10
10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line (about 60 kms)			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-9

Annexure – C

LOCATION DETAILS OF EXISTING / PLANNED SUBSTATIONS

a) 765/400 kV Shadnagar SS: New substation which is to be implemented under present scheme

b) Kurnool IV 765/400/220 kV PS: Co-ordinates are yet to be finalised by the developer.

c) Shadnagar (TGTRANSCO) S/s: As provided in clarification to RFP document.

d) Kethiredipally (TGTRANSCO) S/s: As provided in clarification to RFP document.

Note: *The above coordinates/location of substation indicated is approximate in the substation area. Exact coordinates for the corresponding bays/gantry for termination of the respective line may be verified and finalized in coordination with actual site.*

Annexure-D

SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE

The design, routing and construction of transmission lines shall be in accordance with Chapter V, Part A of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time. Other CEA Regulations/ guidelines as amended up to date and Ministry of Power (MoP) guidelines, as applicable, shall also be followed.

A.1.0 Selection of tower type shall be made as per CEA Regulations, however, in case lattice type towers are used, the following shall also be applicable:

A.2.0 Steel section of grade E 250 and/or grade E 350 as per IS 2062, only are permitted for use in towers, extensions, gantry structures and stub setting templates. For towers in snowbound areas, steel sections shall conform to Grade-C of IS-2062.

A.3.0 Towers shall be designed as per IS-802:2015, however the drag coefficient of the tower shall be as follows: -

Solidity Ratio	Drag Coefficient
Up to 0.05	3.6
0.1	3.4
0.2	2.9
0.3	2.5
0.4	2.2
0.5 and above	2.0

A.4.0 Transmission Service Provider (TSP) shall adopt any additional loading/ design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.

A.5.0 Transmission line shall be designed considering wind zones as specified in wind map given in National Building Code 2016, Vol.1. The developer shall also make his own assessment of local wind conditions and frequent occurrences of High Intensity Winds (HIW) due to thunderstorms, dust storms, downburst etc. along the line route and wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring reliability of line. Further, for transmission line sections passing within a distance of 50 km from the boundary of two wind zones, higher of the two wind zones shall be considered for design of towers located in such sections.

A.6.0 Selection of reliability level for design of tower shall be as per CEA Regulation (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

A.7.0

a) In case of construction of transmission line of Voltage level of 400 kV and above, under crossing of the existing transmission line shall not be allowed. In the case where it is inevitable to under-cross the existing transmission line then TSP shall seek prior

approval from Chief Electrical Inspector, CEA with detailed study ensuring that all statutory electrical clearances and Electric Field limit of 10 kV/m at 1 m and 1.8 m from ground level is not violated.

b) For power line crossing of 400 kV or above voltage level, large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing.

c) For power line crossing of 132 kV and 220 kV (or 230 kV) voltage level, angle towers (B/C/D/DB/DC/DD/ QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

d) For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

e) For crossing of railway tracks, national highways and state highways, the rules/ regulations of appropriate authorities shall be followed.

A.8.0 The relevant conductor configuration shall be as follows: -

A. For LILO of Kurnool-IV – Bidar 765 kV D/C line at Shadnagar

Type of conductor: ACSR / AAAC / AL59

Basic Parameters:

Transmission line	**ACSR Conductor specified**	**Equivalent AAAC conductor based on 53.5% conductivity of Al Alloy**	**Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy***	**Sub-conductor Spacing**
765 kV D/C (Hexa Bundle) Transmission Lines	**Zebra : Stranding** 54/3.18 mm-Al + 7/3.18 mm-Steel, 428 mm^2, Aluminium area, 28.62 mm diameter Maximum DC Resistance at 20°C (Ω/km): 0.06868	**Stranding details:** 61/3.19 mm, 487.5 mm^2 Aluminium alloy area 28.71 mm diameter Maximum DC Resistance at 20°C (Ω/km): 0.06815 Minimum UTS:	**Stranding details:** 61/3.08 mm, 454 mm^2 Aluminium alloy area 27.72 mm diameter Maximum DC Resistance at 20°C (Ω/km): 0.0653 Minimum UTS:	457 mm

Transmission line	**ACSR Conductor specified**	**Equivalent AAAC conductor based on 53.5% conductivity of Al Alloy**	**Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy***	**Sub-conductor Spacing**
	Minimum UTS: 130.32 kN	135.6 kN	108 kN	

B. For the following 400 kV lines:

i. Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/C line

ii. Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line

Type of conductor: ACSR / AAAC / AL59

Basic Parameters:

Transmission line	**ACSR Conductor specified**	**Equivalent AAAC conductor based on 53%conductivity of Al Alloy**	**Equivalent minimum size of AL59 conductor based on 59% conductivity ofAL Alloy***	**Sub-conductor Spacing**
400 kV D/C (Quad Bundle) Transmission Lines	**Moose: Stranding** 54/3.53mm-Al + 7/3.53 mm- Steel, 31.77 mm diameter 528.5 mm^2, Aluminium area, Maximum DC Resistance at 20°C (Ω/km): 0.05552 Minimum UTS: 161.20 kN	**Stranding details:** 61/3.55mm 31.95mm diameter; 604 mm^2 Aluminium alloy area Maximum DC Resistance at 20°C (Ω/km): 0.05506 Minimum UTS: 159.80 kN	**Stranding details:** 61/3.31mm 29.79 mm diameter; 525 mm^2 Aluminium alloy area Maximum DC Resistance at 20°C (Ω/km): 0.0566 Minimum UTS: 124.70 kN	457 mm

Note:

1. **To select any size above the minimum, the sizes mentioned in the Indian standard IS-398 (part-6) shall be followed.*
2. *The transmission lines shall have to be designed for a maximum operating conductor temperature of 85 ^{O}C.*

A.9.0 The required phase to phase spacing and horizontal spacing for 765 kV and 400 kV line(s) shall be governed by the tower design as well as minimum live metal clearances for 765 kV and 400 kV voltage level under different insulator swing angles. However, the phase to phase spacing for 765 kV line shall not be less than 15 m and for 400 kV line shall not be less than 8 m.

A.10.0 All electrical clearances including minimum live metal clearance, ground clearance and minimum mid span separation between earth wire and conductor as given below shall be considered:

I. Minimum live metal clearances for 765 kV line:

a) (i) Under stationary conditions

From tower body: For 765 kV D/C: 6.1 m

For 765 kV S/C: 5.6 m

(ii) Under swing conditions

Wind Pressure Condition	**Minimum Electrical Clearance**
a) Swing angle (25º)	4.4 m
b) Swing angle (55º)	1.3 m

(iii) Minimum ground clearance for 765 kV line: 18 m

(iv) Minimum mid span separation between earth-wire and conductor for 765 kV line: 9.0 m

II. Minimum live metal clearances for 400 kV line:

(i) Under stationary conditions

From tower body: 3.05 m

(ii) Under swing conditions

Wind pressure Condition	**Minimum electrical clearance**
a) Swing angle (22º)	3.05 m
b) Swing angle (44º)	1.86 m

(iii) Minimum ground clearance for 400 kV line: 8.84 m

(iv) Minimum mid span separation between earth-wire and conductor for 400 kV line: 9.0 m

A.11.0 Shielding angle shall not exceed 10 deg for 765 kV D/C and 20 deg for 400 kV D/C Line transmission line.

A.12.0 The Fault current for design of line shall be 50 kA for 1 sec for 765 kV and 63 kA for 1 sec for 400 kV.

A.13.0 In case of 400 kV and above voltage class lines, at least one out of two earth wires shall be OPGW and second earth wire, if not OPGW, shall be either of Galvanized Stranded Steel (GSS) or Aluminum Alloy Conductor Steel Reinforced (AACSR) conductor type or any other

suitable conductor type depending upon span length and other technical consideration.

A.14.0 Each tower shall be earthed such that tower footing impedance does not exceed 10 ohms. Pipe type or Counterpoise type earthing shall be provided in accordance with relevant IS. Additional earthing shall be provided on every 7 to 8 km distance for direct earthing of both shield wires. If site condition demands, multiple earthing or use of earthing enhancement compound shall be used.

A.15.0 Pile type foundation shall be used for towers located in river or creek bed or on bank of river having scourable strata or in areas where river flow or change in river course is anticipated, based on detailed soil investigation and previous years' maximum flood discharge of the river, maximum velocity of water, highest flood level, scour depth and anticipated change in course of river based on river morphology data of at least past 20 years to ensure availability and reliability of the transmission line.

A.16.0 Transmission line route shall be finalized, in consultation with appropriate authorities so as to avoid the habitant zones of endangered species and other protected species. Bird diverters, wherever required, shall be provided on the transmission line. In order to optimize the route, use of GATISHAKTI platform shall also be made.

A.17.0 Wherever, the transmission lines are passing through cyclone prone areas i.e., areas up to 60 km from coast following shall also be applicable:

a) Terrain category-I, with terrain roughness factor (K2) of 1.08 shall be considered for tower design for exposed open terrain with few or no obstruction, which also includes open sea coasts, open stretch of water, desert and flat treeless plains.

b) Importance factor for cyclonic region (K4) of 1.3 shall be considered for tower design.

c) The number of consecutive spans between the section points/ angle point shall not exceed 10 spans or 3 km instead of conventional practice of 15 spans or 5 km, in order to reduce the failure of such towers in coastal areas due to cascading effect. The section shall be terminated with tension tower/ angle tower and angle of deviation should be based on the site requirement.

A.18.0 Wherever, transmission lines are passing through cyclone prone areas (i.e. areas up to 60 km from coast)/ creek regions/ aggressive soil areas following shall also be applicable:

a) The fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 g/m^2 of surface area except for plates and sections below 5 mm which shall have a minimum overall zinc coating of 610 g/m^2 of surface area. The average zinc coating for all sections and plates 5 mm and above shall be maintained as 127 microns and that for plates and sections below 5 mm shall be maintained as 87 microns.

b) Ready mix concrete of M30 Grade shall be used to avoid use of locally available saline water. However, design mix concrete of M30 Grade conforming to IS 456 with potable water can be used at locations where transportation of ready-mix concrete is not feasible. Minimum cement content in any case shall not be less than 330 kg/m^3.

c) The surface of the reinforced steel shall be treated with epoxy-based coating to enhance corrosion performance of foundation. Use of epoxy coated reinforcement in

foundation shall be as per IS 13620. In addition, two (2) coats of bituminous painting of minimum 1.6 kg/m^2 per coat shall be applied on all exposed faces of foundation (i.e. pedestal and base slab).

d) Double coat 20 mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300 mm below ground level to give protection to concrete surface from environmental and saline effect.

e) Before coping of chimney top portion, three coats of anti-corrosive paint of minimum 30-35 microns dry film thickness each shall be applied on the stub in the 50 mm coping portion as well as up to 350 mm above CL portion.

A.19.0 The raised chimney foundation is to be provided in areas prone to flooding/water stagnation like paddy field /agricultural field and undulated areas to avoid direct contact of water with steel part of tower. The top of the chimney of foundation should be at least above HFL (High Flood Level) or the historical water stagnation/ logging level (based on locally available data) or above High Tide Level or 500 mm above Natural Ground level (whichever is higher).

A.20.0 Routing of transmission line through protected areas of India shall be avoided to the extent possible. In case, it is not possible to avoid protected areas, the towers of the transmission line up to 400 kV level, which are installed in protected areas shall be designed for Multicircuit (4 circuits) configuration of same voltage level considering reliability level of at least two (2). The top two circuits of these multi-circuit towers shall be used for stringing of the transmission line under present scope and the bottom two circuits shall be made available for stringing of any future transmission line of any transmission service providers/ State transmission utilities/Central transmission utilities passing through the same protected area. Further, the configuration and coordinates of such transmission towers shall be submitted to CEA, CTU and BPC by the TSP.

A.21.0 The TSP shall abide by the Guidelines of CEA w.r.t. shifting of transmission lines for NHAI projects and other projects.

A.22.0 Safety precautions in regards to gas/oil pipelines in vicinity of Transmission lines shall be taken in coordination with gas/ petroleum authorities.

A.23.0 The stringing of the transmission line in the forest area shall be carried out through drones.

A.24.0 The tower shall be designed considering the porcelain Insulators with creepage factor of 31 mm/ kV irrespective of type of insulator used.

A.25.0 RoW width and Span in different terrain shall be as per Schedule VII of CEA (Technical Standards for Construction of Electrical plants and Electric Lines) Regulations 2022 and RoW guidelines issued vide CEA-PS-14-86/2/2019-PSETD Division dated 24.09.2024.

SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION

The proposed **Shadnagar S/s** shall be conventional Air Insulated Substation (AIS) type conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, as amended from time to time.

Extension of **Kurnool IV PS,** and **Kethiredipally (TGTRANSCO) S/s** shall be conventional AIS type conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

Extension of **Shadnagar (TGTRANSCO) S/s** shall be Gas Insulated Substation (GIS) type conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

Other CEA Regulations/guidelines as amended up to date and MoP guidelines, as applicable, shall also be followed.

B.1.0 Salient features of Substation Equipment and Facilities

The design and specification of substation equipment are to be governed by the following factors:

B.1.1 Insulation Coordination

The system design parameters for substations/switchyards shall be as given below:

Sl. No.	**Description of parameters**	**765/400/220 kV Kurnool IV PS (AIS) Extn.**		
		765 kV System	**400 kV System**	**220 kV System**
1.	System Operating Voltage	765 kV	400 kV	220 kV
2.	Maximum voltage of the system (rms)	800 kV	420 kV	245 kV
3.	Rated Frequency	50 Hz	50 Hz	50 Hz
4.	No. of Phases	3	3	3
5.	Rated Insulation Levels			
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.) - for Equipment other than Transformer and Reactor - for Insulator String	 2100 kVp 2100 kVp	 1425 kVp 1550 kVp	 1050 kVp 1050 kVp
ii)	Switching Impulse withstand voltage (250/2500 micro sec.) dry and wet	1550 kVp	1050 kVp	--
iii)	One minute power frequency dry withstand voltage (rms)	830 kV	630 kV	--
iv)	One minute power frequency dry and wet withstand voltage (rms)	--	--	460 kV

6.	Corona Extinction Voltage	508 kV	320 kV	--
7.	Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz	2500 micro-volts at 508 kV rms	1000 micro-volts at 266 kV rms	1000 micro-volts at 156 kV rms
8.	Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings	24800 mm (31mm/kV)	13020 mm (31 mm/kV)	7595 mm (31 mm/kV)
9.	Minimum creepage distance for switchyard equipment	20000 mm (25 mm/kV)	10500 mm (25 mm/kV)	6125 mm (25 mm/kV)
10.	Max. Fault Current	50 kA	63 kA	50 kA
11.	Duration of Fault	1 sec	1 sec	1 sec

Sl. No.	**Description of parameters**	**765/400 Shadnagar S/s (AIS)**		**Shadnagar (TGTRANSCO) S/s (GIS) Extn.**	**Kethiredipally (TGTRANSCO) S/s (AIS) Exrtn.**
		765 kV System	**400 kV System**	**400 kV System**	**400 kV System**
1.	System Operating Voltage	765 kV	400 kV	400 kV	400 kV
2.	Maximum voltage of the system (rms)	800 kV	420 kV	420 kV	420 kV
3.	Rated Frequency	50 Hz	50 Hz	50 Hz	50 Hz
4.	No. of Phases	3	3	3	3
5.	Rated Insulation Levels				
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.) - for Equipment other than Transformer and Reactor - for Insulator String	2100 kVp 2100 kVp	1425 kVp 1550 kVp	1425 kVp 1550 kVp	1425 kVp 1550 kVp
ii)	Switching Impulse withstand voltage (250/2500 micro sec.) dry and wet	1550 kVp	1050 kVp	1050 kVp	1050 kVp
iii)	One minute power frequency dry withstand voltage (rms)	830 kV	630 kV	650 kV (for GIS) 630 kV (for AIS)	630 kV
6.	Corona Extinction	508 kV	320 kV	320 kV	320 kV

	Voltage				
7.	Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz	2500 micro-volts at 508 kV rms	1000 micro-volts at 266 kV rms	1000 micro-volts at 266 kV rms	1000 micro-volts at 266 kV rms
8.	Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings	24800 mm (31 mm/kV)	13020 mm (31 mm/kV)	13020 mm (31 mm/kV)	13020 mm (31 mm/kV)
9.	Minimum creepage distance for switchyard equipment	20000 mm (25 mm/kV)	10500 mm (25 mm/kV)	10500 mm (25 mm/kV)	10500 mm (25 mm/kV)
10.	Max. Fault Current	50 kA	63 kA	63 kA	63 kA
11.	Duration of Fault	1 sec	1 sec	1 sec	1 sec

B.1.2 Switching Scheme

The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:

Substation	**765 kV side**	**400 kV side**	**220 kV side**
765/400/220 kV Kurnool IV PS (AIS) Extn.	One and Half breaker	One and Half breaker	Double Main and Transfer
765/400 kV Shadnagar S/s (AIS)	One and Half breaker	One and Half breaker	-----
Shadnagar (TGTRANSCO) S/s (GIS) Extn.	-----	One and Half breaker	-----
Kethiredipally (TGTRANSCO) S/s (AIS) Extn.	-----	One and Half breaker	-----

Notes: -

i) *For one and half breaker switching scheme, any double circuit line consisting of two numbers of feeders and originating from the same transmission or generating switchyard shall not be terminated in one diameter.*

ii) *Two transformers of same HV rating shall not be connected in the same diameter and similarly two bus reactors of same HV rating shall also not be connected in the same diameter.*

iii) *A diameter in one and half breaker scheme is a set of 3 circuit breakers with associated isolators, earth switches, current transformers etc. for controlling 2 (two) numbers of feeders.*

iv) *Space for 765 kV and 400 kV future line bays shall be kept considering provision of switchable line reactors.*

v) ***Provision for Bus sectionalizer:***

Space/provision for One (1) set of bus sectionalizer for 400 kV shall comprise Two (2) Nos. of bus sectionalizer bays with associated Circuit Breakers, Isolators and Current Transformers for both buses.

Space/provision for One (1) set of bus sectionalizer for 220 kV shall comprise Two (2) Nos. of bus sectionalizer bays with associated Circuit Breakers, Isolators and Current Transformers for both buses.

vi) *TSP shall plan connectivity of line and transformer feeders to bus bar in such a way that all power can be evacuated successfully without crossing thermal limit at any point of bus-bar.*

vii) *For AIS type substation, TSP shall keep space provisions for future elements such that interconnection arrangement to the corresponding future bays can be done with overhead AIS type connection without any cable/ GIS duct.*

viii) **765/400/220 kV Kurnool IV PS:**

- *400 kV Bus Sectionalization shall be with the following feeder distribution.*

400 kV Bus Section-1	***400 kV Bus Section-2***
a) 3 Nos. of existing 765/400 kV ICT *b) 3 Nos. of existing 400/220 kV ICT* *c) 1 No. of existing STATCOM* d) 5 Nos. of Present 400/220 kV ICT e) 2 No. of Present 400 kV Lines *f) 4 Nos. of Future 400 kV Lines (with provision for Switchable line reactor)*	*a) 1 No. existing of 765/400 kV ICT* *b) 1 Nos. of existing 400/220 kV ICT* c) 2 Nos. of Present 765/400 kV ICT d) 5 Nos. of Present 400/220 kV ICT *e) 4 Nos. of Future 400/220 kV ICT* *f) 6 Nos. of Future 400 kV Lines (with provision for Switchable line reactor)*

- *220 kV Bus Sectionalization shall be with the following feeder distribution.*

220 kV Bus Section-1	***220 kV Bus Section-2***
a) 3 Nos. of existing 400/220 kV ICT b) *5 Nos. of existing 220 kV Lines*	*a) 1 No. of existing 400/220 kV ICT* *b) 1 No. of existing 220 kV Line* c) 5 Nos. Present 220 kV Line. d) 4 Nos. Present 400/220 kV ICT.
220 kV Bus Section-3	***220 kV Bus Section-4***

a) 5 Nos. Present 400/220 kV ICT. b) 7 Nos. Present 220 kV Lines.	a) 1 Nos. Present 400/220 kV ICT. b) 1 Nos. Present 220 kV Line. *c) 4* Nos. *future 400/220 kV ICT.* *d) 7* Nos. *future 220 kV Lines.*

- *Line bays shall be complete along with line side equipment (such as LA, CVT, Wave Trap), gantry, protection panel etc. for termination of 400 kV and 220 kV lines for interconnection of RE Generation Projects.*

ix) **765/400 Shadnagar S/s (AIS)**

- *Provision of 400 kV Bus Sectionalization (Future) and space provision shall be with the following feeder distribution.*

400 kV Bus Section-1	***400 kV Bus Section-2 (Future)***
a) 4 Nos. of Present 765/400 kV ICT b) 4 Nos. of Present 400 kV Lines *c) 6 Nos. of Future 400/220 kV ICT* *d) 4 Nos. of Future 400 kV Lines (with provision for Switchable line reactor)*	*a) 2* Nos. *of Future 765/400 kV ICT* *b) 4* Nos. *of Future 400/220 kV ICT* *c) 4* Nos. *of Future 400 kV Lines (with provision for Switchable line reactor)*

- *TSP shall implement 400 kV bays keeping the space provision for providing 400 kV Bus Sectionalizer in future meeting the requirements of feeder distribution as mentioned above.*

x) In one and half breaker scheme, both main bay and tie bay shall be completed for controlling a feeder. Further, all associated interconnection work shall also be in the present scope of TSP.

B.2.0 Substation Equipment and Facilities (Voltage level as applicable):

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following capacity.

S. No	**Description of Bay**	**765/400/220 kV Kurnool IV PS**		
		765 kV	**400 kV**	**220 kV**
1.	Bus Bar	4000 A	4000 A	3000 A
2.	Line bay	N/A	3150 A	1600 A
3.	ICT bay	3150 A	3150 A	1600 A
4.	Bus Sectionaliser bay	N/A	4000 A	3000 A
5.	Bus Coupler Bay	N/A	N/A	3000 A
6.	Transfer Bus coupler bay	N/A	N/A	1600 A

S. No	Description of Bay	765/400 kV Shadnagar S/s		Shadnagar (TGTRANSCO) GIS S/s	Kethiredipally (TGTRANSCO) S/s
		765 kV	400 kV	400 kV	400 kV
1.	Bus Bar	4000 A	4000 A	As per existing	As per existing
2.	Line bay	3150 A	3150 A	3150 A	3150 A
3.	ICT bay	3150 A	3150 A	N/A	N/A
4.	Reactor bay	3150 A	N/A	N/A	N/A

B.2.1 (765/√3)/(400/√3)/33 kV, Single Phase Autotransformer

500 MVA, (765/√3)/ (400/√3)/ 33 kV, 1-phase autotransformer (including arrangement for 3-phase bank formation of 1500 MVA) shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class)" as amended up to date available on CEA's website.

Spare 1-phase Transformer unit shall be placed and connected in such a way that the spare unit can be utilized to replace in case of fault in any unit of any of the transformer banks (including for future transformer banks) without physically moving it.

Connection arrangement for utilization of existing Spare Single Phase Autotransformer unit: TSP shall make the arrangement of present ICT bank in such a way that the existing spare unit can be utilized for Transformer bank under present scope without its physical movement.

B.2.2 400/220/33 kV, 3-phase Autotransformer

500 MVA, 400/220/33 kV, 3-phase autotransformer shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class)" as amended up to date available on CEA website.

B.2.3 (765/√3) kV, Single Phase Shunt Reactor

110 MVAr, 765/√3 kV, 1-Phase Reactor (including arrangement for 3-phase bank formation of 330 MVAr) shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above voltage class)" as amended up to date available on CEA's website.

Spare 1-phase Shunt Reactor unit shall be placed and connected in such a way that the spare unit can be utilized for all the bus and **switchable** line reactor banks (including for future reactor banks) without its physical movement.

B.2.4 400 kV GIS Substation equipment (as applicable)

GIS (Gas Insulated Switchgear) shall be Indoor type in accordance to IEC: 62271-203. The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All the switchgear such as Circuit Breaker, isolator, earth switch including

CT, PT etc. shall be GIS type. The Surge Arrestor and Voltage Transformer shall be either GIS or outdoor AIS type.

The GIS assembly shall consist of separate modular compartments e.g. Circuit Breaker compartment, Bus bar compartment filled with SF_6 Gas and separated by gas tight partitions so as to minimize risk to human life, allow ease of maintenance and limit the effects of gas leaks failures and internal arcs etc. These compartments shall be designed to minimize the risk of damage to adjacent sections and protection of personnel in the event of a failure occurring within the compartments. Rupture diaphragms with suitable deflectors shall be provided to prevent uncontrolled bursting pressures developing within the enclosures under worst operating conditions, thus providing controlled pressure relief in the affected compartment. The arrangement of gas sections or compartments shall be such as to facilitate future extension of any make without any drilling, cutting or welding on the existing equipment. To add equipment, it shall not be necessary to move or dislocate the existing switchgear bays. The layout of Gas Insulated Bus Ducts shall be properly planned to optimize the length of bus ducts and for easy accessibility for maintenance. The length of busbars, bus ducts, isolator sections shall be optimized considering effects of fast transient voltage due to isolator operations.

The bus bar modules including auxiliary bus modules (wherever applicable) shall be provided with suitable End Piece (Interface) module **on both sides** with the test link facility for future extension as per provisions of future requirements. The end piece module shall be designed in such a way so that future GIS modules may be tested without extending test voltage to existing bus and vice-versa by removing the test link.

TSP shall make available the complete details for the design of interface module such as cross section, enclosure material, enclosure dimensions (inner and outer), Flange diameter (inner and outer), conductor cross-section and connection arrangement, bolt spacing and dimension, rated gas pressure, Gasket detail etc. Further, adequate space for GIS busbar interface module shall be taken into account for future scope.

Each section shall have plug-in or easily removable connection pieces to allow for easy replacement of any component with the minimum disturbance to the remainder of the equipment. Inspection windows (View Ports) shall be provided for Disconnector Switches and both type of earth switches i.e. Maintenance and fast operating.

Local Control Cabinets (LCC) shall be provided as per requirement. The alarm and annunciation of GIS equipment shall be wired to the SCADA System.

The material and thickness of the enclosures shall be such as to withstand an internal flashover without burns through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF_6 breakdown under arcing conditions. This shall be validated with Type Test.

Service continuity requirement for GIS:

The GIS equipment with the given bus switching arrangement shall be divided into different

gas compartments. During the work such as a fault repair or major maintenance, requiring the dismantling of a gas compartment for which more than one compartments may need to be de-gassed.

TSP shall meet following Service continuity conditions (to the extent possible) with ensuring equipment and operating personnel's safety:

- For One and half breaker bus switching scheme, during a fault in Circuit Breaker compartment, no bus bar and feeder is permitted out of service during maintenance and repair/replacement.
- During a fault in a GIS compartment other than the Circuit Breaker compartment, maximum of one bus bar and/or one feeder is permitted out of service during maintenance and repair/replacement.

UHF sensors in GIS for PD (Partial Discharge) detection:

The adequate number of Ultra High Frequency (UHF) sensors shall be provided in the offered GIS along with suitable portable type Partial Discharge (PD) measuring instrument for detection of Partial discharge (of 5 pC and above as per IEC 60270). The number and location of these sensors shall be based on laboratory tests on the typical design of GIS as per recommendations of CIGRE Document No. 654 (Application Guide for sensitivity verification for UHF Partial discharge detection system for GIS).

B.2.4.1 Circuit Breakers (GIS)

GIS Circuit breakers shall in general be of C2-M2 class and comply to IEC-62271-100. The rated break time shall not exceed 40 ms (milli second) for 400 kV. Circuit breakers shall be suitable for single phase and three phase auto reclosing. Each breaker would have two sets of trip circuits which would be connected to separate DC supplies for greater reliability. The Circuit breakers controlling 400 kV lines wherever required shall be provided with pre-insertion closing resistor of about 400 ohms with 8 ms insertion time or Controlled Switching Device (CSD) for lines longer than 200 km. The short line fault capacity shall be the same as the rated capacity and this is proposed to be achieved without use of opening resistors. Controlled switching device shall be provided in the Circuit Breaker of the switchable line reactor bay and in Main and Tie bay circuit breakers of line with non-switchable line reactors, Bus reactors and Transformers for 400 kV and above voltage class.

B.2.4.2 Isolators (GIS)

The isolators shall comply to IEC 62271-102 in general. Earth switches shall be provided at various locations to facilitate maintenance. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. All isolators and earth switches shall be motor operated type.

The isolator shall be of extended mechanical endurance class-M2 and suitable for Bus Transfer Current Switching duty as per IEC standards. High speed earthing switches shall

be provided for grounding purposes at overhead line terminations and cable terminations and shall have fault making capability as specified. Earth switch for line isolator shall be of earthing switch class E1 and shall be suitable for induced current switching duty as defined for Class-B as per relevant standard.

B.2.4.3 Current Transformers (GIS)

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) shall have five cores (four for protection and one for metering) whereas; CT in Tie bays shall have six cores (four for protections and two for metering) suitably distributed on both sides of CB (for 400 kV and above voltage class). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for protection core shall be PX and for the metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy.

The instrument security factor shall be less than 5 for CTs up to 400 kV voltage class.

B.2.4.4 Voltage Transformer (GIS)

The voltage transformers shall conform to IEC-61869. Voltage transformers shall be of electromagnetic type with SF_6 gas insulation. The earth end of the high voltage winding and the ends of the secondary winding shall be brought out in the terminal box. The voltage transformers shall be located as a separate bay module and will be connected phase to ground and shall be used for protection, metering and synchronization. The voltage transformers shall be of inductive type, nonresistant and shall be contained in their own-SF_6 compartment, separated from other parts of installation. The voltage transformer shall be effectively shielded against high frequency electromagnetic transients. The voltage transformer shall have three secondary windings out of which two shall be used for protection and one for metering. The voltage transformer should be thermally and dielectrically safe when the secondary terminals are loaded with the guaranteed thermal burdens. The accuracy class for protection cores shall be 3P. The accuracy of 0.2 on metering core should be maintained throughout the entire burden range on all the three windings without any adjustments during operation. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

B.2.4.5 Surge Arresters (GIS) (if applicable)

336 kV Station High (SH) duty gapless type Surge arresters with thermal energy (Wth) of minimum 12 kJ/ kV shall be provided for 420 kV system conforming to IEC 60099-4 in general. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances, near transformers and reactors so as to achieve proper insulation coordination. A leakage current monitor with

surge counter shall be provided with each surge arrester.

B.2.4.6 SF_6 to Air Bushing

Outdoor bushings, for the connection of conventional external conductors to the SF_6 metal enclosed switchgear, shall be provided. Bushings shall generally be in accordance with the requirements of IEC-60137. The creepage distance over the external surface of outdoor bushings shall not be less than 31 mm/ kV. SF_6 to air Bushing shall be of Polymer/ composite type and shall be robust and designed for adequate cantilever strength to meet the requirement of seismic conditions. The electrical and mechanical characteristics of bushings shall be in accordance with IEC-60137. Polymer/composite insulator shall be seamless sheath of silicon rubber compound. The housing and weather sheds should have silicon content of minimum 30% by weight. It should protect the bushing against environmental influences, external pollution and humidity. The hollow silicon composite insulators shall comply with the requirements of IEC 61462 and the relevant parts of IEC-62217.

B.2.5 765 kV, 400 kV and 220 kV AIS Substation equipment (as applicable)

B.2.5.1 Circuit Breakers (AIS)

The circuit breakers and accessories shall conform to IEC: 62271-100, IEC: 62271-1 and shall be of SF_6 Type. The circuit breakers shall be of class C2-M2 (as per IEC) with regard to restrike probability during capacitive current breaking and mechanical endurance. The rated break time shall not exceed 40 ms for 765 kV and 400 kV circuit breakers and 60 ms for 220 kV circuit breakers. The 765 kV, 400 kV and 220 kV circuit breakers shall be provided with single phase and three phase auto reclosing. Each breaker would have two sets of trip circuits, which would be connected to separate DC supplies for greater reliability. The circuit breakers controlling 765 kV lines shall be provided with either pre-insertion closing resistor of about 450 ohm maximum with 9 ms insertion time or with Controlled Switching Device. The Circuit breakers controlling 400 kV lines shall be provided with pre insertion closing resistor of about 400 ohm with 8 ms insertion time or with Controlled Switching Device (CSD) for lines longer than 200 km length. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors. The Controlled Switching Device shall be provided in circuit breakers of switchable line reactor bay and in Main and Tie bay circuit breakers of line with non-switchable line reactors, Bus Reactors and Transformers of 400 kV and above voltage class.

B.2.5.2 Isolators (AIS)

The Isolators shall comply with IEC 62271-102 in general. 765 kV Isolator design shall be double break or vertical break or knee-type. 400 kV and 220 kV Isolators shall be double break type. All Isolators and earth switches shall be motor operated. Earth switches shall be provided at various locations to facilitate maintenance. Isolator rated for 400 kV and 220 kV shall be of extended mechanical endurance class – M2 as per IEC-62271-102. Isolator rated for 220 kV shall be suitable for bus transfer current switching duty as per IEC-62271-102. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. The

765 kV, 400 kV and 220 kV earth switch for line isolator shall be suitable for induced current switching duty as defined for Class-B.

B.2.5.3 Current Transformers (AIS)

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) for 765 kV and 400 kV shall have six cores (four for protection and two for metering) and 220 kV Current Transformers shall have five cores (four for protection and one for metering). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for the protection core shall be PX and for the metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of the metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy. The instrument security factor shall be less than five (5) for CTs up to 400 kV and less than ten (10) for CTs of 765 kV voltage class.

B.2.5.4 Capacitive Voltage Transformers (AIS)

Capacitive Voltage Transformers shall comply with IEC 61869 in general. These shall have three secondaries out of which two shall be used for protection and one for metering. The accuracy class for protection cores shall be 3P and for metering core shall be 0.2. The Capacitive Voltage Transformers on lines shall be suitable for Carrier Coupling. The Capacitance of CVT for 400 kV and 220 kV shall be of 4400/8800 pF depending on PLCC requirements whereas the Capacitance of CVT for 765 kV shall be 8800 pF. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

B.2.5.5 Surge Arresters (AIS)

624 kV, 336 kV Station High (SH) duty and 216 kV Station Medium (SM) duty gapless type Surge Arresters with thermal energy (W_{th}) of minimum 13 kJ/kV, 12 kJ/kV and 7 kJ/kV conforming to IEC 60099-4 in general shall be provided for 800 kV, 420 kV and 245 kV systems respectively. Other characteristics of Surge Arrester shall be chosen in accordance with system requirements. Surge Arresters shall be provided at line entrances, near transformers and reactors so as to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

B.2.6 Protection Relaying and Control System

The protective relaying system proposed to be provided for transmission lines, auto-transformers, reactors and bus bars to minimize the damage to the equipment in the events of faults and abnormal conditions, is dealt in this section. All main protective relays shall be numerical type with IEC 61850 communication interface and should have interoperability during integration of numerical relays to communicate over IEC 61850 protocol with RTU/SAS/IEDs of different OEMs. All numerical relays shall have built in disturbance recording feature.

The protection circuits and relays of the transformer and reactor shall be electrically and physically segregated into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing, to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service.

a) Transmission Lines Protection

765 kV, 400 kV and 220 kV lines shall have Main-I numerical three zone distance protection scheme with carrier aided inter-tripping feature. 765 kV, 400 kV and 220 kV lines shall also have Main-II numerical distance protection scheme like Main-I but from different make that of Main-I. The Main-I and Main-II protection relays of same make may be provided only if they are of different hardware and manufacturing platform or different principle of operation.

However, Line Current Differential Relay (with back up distance protection feature) as Main–I and Main-II shall be considered at both ends for short lines (line length below 30 km) having Fiber Optic Communication Link. Differential relay at remote end shall be provided by the TSP. The associated power and control cabling and integration with SAS at remote end shall be provided by respective bay owners.

In case of 220 kV line bays for RE Generators, Line Current differential relay (with back up distance protection feature) as Main-I and Main-II shall be provided. Further, in such cases, the matching line current differential relay for remote end shall be provided by the TSP as loose supply.

In case of loop in loop out of transmission lines, the existing protection scheme shall be studied and suitable up-gradation (if required) shall be carried out.

Further, all 765 kV, 400 kV and 220 kV lines shall be provided with single and three phase auto- reclosing facility to allow reclosing of circuit breakers in case of transient faults. These lines shall also be provided with distance to fault locators to identify the location of fault on transmission lines.

All 765 kV, 400 kV and 220 kV lines shall also be provided with two stage over voltage protection. The over voltage protection and distance to fault locator may be provided as in-built feature of Main-I and Main-II protection relays. Auto reclose as built-in function of Bay Control Unit (BCU) is also acceptable.

The Main-I and Main-II protection relays shall be fed from separate DC sources and shall be mounted in separate panels.

For 765 kV, 400 kV and 220 kV transmission lines, directional IDMT earth fault relay should be provided as standalone unit or in-built feature of Main-I and Main -II feature.

b) Auto Transformer Protection

These shall have the following protections:

i) Numerical Differential Protection

ii) Numerical Restricted Earth Fault Protection

iii) Numerical Back-up Over-Current and Earth Fault Protection on High Voltage (HV) and Intermediate Voltage (IV) side

iv) Numerical Over Fluxing Protection on HV and IV side

v) Numerical Overload Alarm

Further, Numerical Back-up Over-current and earth fault protection on HV and IV side of autotransformer shall not be combined with other protective functions in the main relays and shall be independent relays. Besides these, power transformers shall also be provided with Buchholz relay, Magnetic Oil Gauge (MOG) with low oil level alarm, protection against high oil and winding temperature and pressure relief device etc.

Suitable monitoring, control (operation of associated circuit breaker and isolator) and protection for LT auxiliary transformer connected to tertiary winding of auto-transformer for the purpose of auxiliary supply shall be provided. The over current and other necessary protection shall be provided for the auxiliary transformer. These protection and control may be provided as built-in feature either in the bay controller to be provided for the auxiliary system or in the control and protection IEDs to be provided for autotransformer.

c) 765 kV Reactor Protection

Reactor shall be provided with the following protections:

i) Numerical Differential Protection.

ii) Numerical Restricted Earth Fault Protection

iii) Numerical Back-up Impedance Protection

Besides these, reactors shall also be provided with Buchholz relay, Magnetic Oil Gauge (MOG) with low oil level alarm, protection against oil and winding temperatures and pressure relief device, etc.

d) Bus Bar Protection

The high-speed low impedance type bus bar differential protection, which is essential to minimize the damage and maintain system stability at the time of bus bar faults, shall be provided for 765 kV, 400 kV and 220 kV buses. Duplicated bus bar protection is envisaged for 765 kV and 400 kV bus-bar protection. Bus bar protection scheme shall be such that it operates selectively for each bus and incorporate necessary features required for ensuring security. The scheme shall have complete bus bar protection for present as well as envisaged future bays i.e. input / output modules for future bays for the bus section under present scope shall also be provided.

Bus Bar protection system for new substation shall be de-centralized (distributed) type.

In case, the bus section is provided, then each side of bus section shall have separate set of bus bar protection schemes.

Peripheral Units (PUs) shall be provided by the respective bay owners.

For existing substations, the existing bus bar protection shall be augmented as per requirement. Separate set of bus bar protection schemes including necessary modification with respect to feeder distribution shall be provided where new bus sectionaliser is being implemented.

e) Local Breaker Back up Protection

This shall be provided for each 765 kV, 400 kV and 220 kV circuit breakers and will be connected to de-energize the affected stuck breaker from both sides.

Notes:

1. *LBB and REF relays shall be provided separately from transformer differential relay.*
2. *LBB relay may also be provided as built-in protection function of distributed bus bar protection scheme; however in such case separate LBB relay shall be provided for tie bays (in case of One and Half breaker scheme).*
3. *Over fluxing and overload protection can be provided as built-in feature of differential relay.*
4. *In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, Tie CB relay panel shall be with Auto-reclosure feature.*

B.2.7 Substation Automation System

a) For all the new substations, state of art Substation Automation System (SAS) conforming to IEC-61850 shall be provided. The distributed architecture shall be used for Substation Automation System, where the controls shall be provided through Bay Control Units. The Bay Control Unit is to be provided bay wise for voltage level 220 kV and above. All Bay Control Units as well as protection units are normally connected through an Optical fibre high speed network. The control and monitoring of circuit breaker, dis-connector, re-setting of relays etc. can be done from Human Machine Interface (HMI) from the Control Room.

The functions of control, annunciation, disturbance recording, event logging and measurement of electrical parameters shall be integrated in the Substation Automation System.

At the new substations, the Substation Automation System (SAS) shall be suitable for the operation and monitoring of the complete substation including proposed future bays/elements.

In the existing substations with a Substation Automation System (SAS), augmentation of existing SAS shall be done for bays under the present scope.

In the existing Substations where Substation automation is not provided, control functions shall be done through control panels.

Necessary gateway and modems (as required) shall be provided to send data to RLDC/SLDC as per their requirement and shall be provisioned with 2+2 redundancy i.e. 2 channels for

Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation. Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs. Any augmentation work at RLDC/SLDC is excluded from TSP's scope. However, all the configuration work at substation end required to send data to RLDC/SLDC shall be in the scope of TSP.

b) Time Synchronization Equipment

Time Synchronization Equipment complete in all respect including antenna, cable and processing equipment required to receive time signal through GPS/NavIC or from National Physical Laboratory (NPL) through INSAT shall be provided at new substations. This equipment shall be used to synchronize SAS and IEDs etc.

B.3.0 Substation Support Facilities

Certain facilities required for the operation and maintenance of substations as described below shall be provided at the new substation. In existing substation, these facilities have already been provided and will be extended/ augmented as per requirement.

B.3.1 AC and DC power supplies

For catering the requirements of three phase and single phase AC supply and DC supply for various substation equipment (for present and future scope), the following arrangement is envisaged:

iv) For LT Supply at each new Substation, two (2) Nos. of LT Transformers (minimum 800 kVA for substations with highest voltage rating as 765 kV) shall be provided which shall be fed from two independent sources as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007.

Metering arrangement with Special Energy Meters (SEMs) shall be provided by TSP at 33 kV tertiary of Transformer for drawing auxiliary supply at new substation.Such SEMs shall be provided by CTU at the cost of the TSP. Accounting of such energy drawn by the TSP shall be done by RLDC/RPC as part of Regional Energy Accounting.

Additionally, Active Energy Meters may be provided at the same point in the 33 kV tertiary of Transformer by local SEB/DISCOM for energy accounting.

v) 2 sets of 220 V battery banks for control and protection and 2 sets of 48 V battery banks for PLCC/ communication equipment shall be provided at each new Substation. Each battery bank shall have a float-cum-boost charger.

At new substation, sizing of 220 V battery and battery charger shall be done based on the number of bays specified (including future bays) as per CEA Regulations and relevant IS. 2 sets of 48 V battery banks for PLCC and communication equipment for present and future scope shall be provided at each new Substation with at least 10-hour battery backup and

extended backup, if required. 48 V DC can be achieved from 220 V DC battery bank using adapter, if so desired by TSP, without compromising backup time.

vi) Suitable AC and DC distribution boards and associated LT Switchgear shall be provided at new substation.

For new substation, following switch boards shall be considered with duplicate supply with bus coupler/ sectionalizer and duplicate outgoing feeders except for Emergency lighting distribution board which shall have only one incoming feeder:

(a) 415 V Main Switchboard – 1 No.
(b) AC distribution board – 1 No.
(c) Main lighting distribution board – 1 No.
(d) Emergency lighting distribution board – 1 No.
(e) 220 Volt DC distribution board – 2 Nos.
(f) 48 Volt DC distribution board – 2 Nos.

Sizing of LT Switchgear shall be suitable to cater the requirement for all present andfuture bays. AC and DC distribution boards shall have modules for all the feeders (including future as specified).

vii) At new Substation, one No. of DG set (minimum 500 kVA for substations withhighest voltage rating as 765 kV) shall be provided for emergency applications.

viii) At new substation, sizing of battery and battery chargers shall be done based on the number of bays specified (including future bays).

ix) For substation extensions, existing facilities shall be augmented as required.

B.3.2 Fire Fighting System

Fire-fighting system for substation including Transformer and Reactor shall conform to CEA (Measures Relating to Safety and Electric Supply) Regulations, 2023 as amended from time to time.

Further, adequate water hydrants and portable fire extinguishers shall be provided in the substations. The main header of the firefighting system shall be suitable for extension to bays covered under the future scope; necessary piping interface in this regard shall be provided.

Optical Beam type heat detection for GIS hall fire protection system shall be provided for all the GIS halls.
At existing substations, the fire-fighting systems as available shall be extended to meet the additional requirements.

B.3.3 Oil evacuating, Filtering, Testing and Filling apparatus

To monitor the quality of oil for satisfactory performance of Transformers, Shunt Reactors and for periodical maintenance necessary oil evacuating, filtering, testing and filling apparatus would be provided at new substations. Oil storage tanks of adequate capacities for storage of transformer oil would be provided.

Online Transformer Oil Drying Out System shall be provided in line with the provisions of Standard Specification and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class) as amended up to date available on CEA website.

B.3.4 Illumination

Normal and emergency AC and DC illumination shall be provided adequately in the control room and other buildings of the substation. The switchyard shall also be provided with adequate illumination.

The lighting of the entire control room building, fire-fighting pump house, other building (if any) and switchyard shall be done by LED based low power consumption luminaries.

B.3.5 Control Room

For the new substation, substation control room shall be provided to house substation work stations for station level control (SAS) along with its peripheral and recording equipment, AC and DC distribution boards, DC batteries and associated battery chargers, Fire Protection panels, Telecommunication panels and other panels as per requirements. Air conditioning shall be provided in the building as functional requirements. Main cable trenches from the control room shall have adequate space provision for laying of cables from the control room for all the future bays.

At existing substations, the adequacy of size of control room shall be ascertained and the same shall be augmented as per requirement.

B.3.6 GIS hall

The Gas Insulated Switchgear (GIS) of each voltage level along with other associated equipment shall be housed inside **separate** GIS building. The panels i.e. Bay level units, bay mimic, relay and protection panels, RTCC panels, PLCC panels, panels for tele-communication system etc. are to be placed in a separate room in the GIS building. The size of the room shall be such that all the panels for the bays under present scope shall be accommodated. The panel room shall be air-conditioned. Further, the temperature of the room shall be monitored through substation automation system by providing necessary temperature transducers. Ventilation system of suitable capacity shall be provided for each GIS hall.

One EOT Crane of suitable capacity for erection and maintenance of largest GIS component/assembly and all plant installed in the GIS switchgear room shall be provided in each GIS hall. The crane shall be capable of fulfilling all special requirements for erection and maintenance of GIS equipment. The capacity of the crane shall be sized to lift the heaviest GIS switchgear component.

For extension of existing GIS, existing facilities shall be suitably augmented/ extended for GIS equipment under present scope.

B.3.7 Control Concept

All the EHV circuit breakers in substation/switching stations shall be controlled and synchronized from the switchyard control room/remote control center. All the isolators shall have control from remote/local whereas the earth switches shall have local control only.

B.3.8 Visual Monitoring System (VMS) for watch and ward of substation premises:

Visual Monitoring System for effective watch and ward of substation premises shall cover all the transformers and reactors, all other major AIS Equipment (such as CB, isolators, CT, CVT, SA etc. as applicable), GIS bays, panel room, all the gates of switchyard and all entry and exit points of control room building and accordingly the location of cameras shall be decided. In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations. The camera shall be high-definition color CCD camera with night vision feature. The VMS data partly/completely shall be recorded (minimum for 15 days) at least @25fps (or better) and stored on network video recorder. The system shall use video signals from various cameras installed at different locations, process them for viewing on workstations/monitors in the control room and simultaneously record all the cameras. The VMS data should go only to the intended personnel/facility and not to the remote server of the Camera (VMS supplier).

Mouse/keyboard controllers shall be used for pan, tilt, zoom and other functions of the desired camera. The Visual Monitoring System shall have provision of WAN connectivity for remote monitoring.

All camera recordings shall have Camera ID and location/area of recording as well as date/time stamp. The equipment should generally conform to Electromagnetic compatibility requirement for outdoor equipment in EHV substation.

Advisory on deployment of CCTV issued by Ministry of Electronics and Information Technology (MEITY) shall be followed.

At existing substations, the Visual Monitoring System if available shall be augmented as per existing or better specification as required.

B.4 General Facilities

a) Line Gantry/Towers are envisaged for bays under the present scope only. However, for adjacent future line bay, gantry/tower shall be designed for extension (considering Hexa conductors for 765 kV and Quad conductors for 400 kV and Twin conductor for 220 kV future lines) wherever applicable.

b) Bay extension works at existing substation shall be executed by TSP in accordance with the requirements/provisions mentioned above. However, interface points shall be considered keeping in view the existing design/arrangement at the substation.

c) TSP has to arrange for construction power and water on its own.

d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 610 g/m^2, however, for coastal/creek regions it shall be at least 900 g/m^2. (if applicable)

e) In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, all the equipment for Tie and Future Bay shall be designed considering the current rating of line bay i.e. 3150 A.

f) Boundary wall shall be brick masonry wall with RCC frame or Stone masonry wall or Precast RCC wall under present scope along the property line of complete substation area including future switchyard area to prevent encroachment and unauthorized access. Minimum height of the boundary wall shall be of 1.8 m from Finished Ground Level (FGL).

g) All electrical equipment shall be installed above the Highest Flood Level (HFL) and where such equipment is not possible to be installed above Highest Flood Level, it shall be ensured that there is no seepage or leakage or logging of water.

h) As per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022 and CEA Manual on Transmissions Planning criteria 2023, line approaching substation shall normally be perpendicular to the substation boundary for a stretch of 2-3 km. Accordingly, TSP shall ensure that line terminations at substations are arranged in a manner to avoid hindrance to future line terminations at the substations.

i) **TSP shall finalize the substation site/layout such that the corridor for the termination of lines, including future lines at the substation, can be accommodated without any constraints. Accordingly, forests, large water bodies, or hills adjacent to the substation boundary should be avoided.**

B.5 EXTENSION OF EXISTING SUBSTATION

The following drawings/details of existing substation are attached with the RfP documents for further engineering by the bidder.

S. No.	Drawing Title	Drawing No./Details	Rev. No.
A.	**765/400/220 kV Kurnool IV PS**		
1.0	Single Line Diagram	*Drawings are yet to be finalized by the developer.*	
2.0	General Arrangement		
3.0	Earthmat Layout		

4.0	Visual Monitoring System		
5.0	Bus Bar Protection		
6.0	Substation Automation System (SAS)		
B.	**400 kV Shadnagar (TGTRANSCO) S/s**		
1.0	Single Line Diagram	*Kindly refer the clarification to RFP documents.*	
2.0	General Arrangement		
3.0	Earthmat Layout		
4.0	Visual Monitoring System		
5.0	Bus Bar Protection		
6.0	Substation Automation System (SAS)		
C.	**400 kV Kethiredipally (TGTRANSCO) S/s**		
1.0	Single Line Diagram	*Kindly refer the clarification to RFP documents.*	
2.0	General Arrangement		
3.0	Earthmat Layout		
4.0	Visual Monitoring System		
5.0	Bus Bar Protection		
6.0	Substation Automation System (SAS)		

Note: The existing drawings provided above and in subsequent amendments to the RfP are as received from the developer of existing substation and provided only for reference. Bidders shall follow the RfP for scope of work. Actual site conditions may be different due to other schemes being executed or subsequent revisions by the developer. Thus, Bidders are advised to visit the substation sites and acquaint themselves with the actual site conditions, layout, topography, infrastructure such as the requirement of roads, cable trench, drainage, space availability in control rooms and LT panel room, boundary etc. and also the design philosophy.

Annexure-E

SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION

The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017, CEA (Cyber Security in Power Sector) Guidelines, 2021, CEA Guidelines on Unified Philosophy for placement of PMUs in Indian Grid, March 2025 and amendments of all above documents as amended from time to time.

The communication services viz. SCADA, AGC (wherever applicable), VoIP, AMR and PMU have been identified as critical services and therefore shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation.
PMU to PDC communication (wherever required) shall be through 2 channels to the PDC (main) as there is no backup PDC at present.

Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs
The complete ISTS communication system commissioned by TSP under the RFP shall be the asset of ISTS and shall be available for usage of ISTS requirements as suggested by CTU from time to time.

In order to meet the requirement for grid management and operation of substations, Transmission Service Provider (TSP) shall provide the following**:**

C.1.0 Establishment of 765/400 kV Shadnagar (ISTS) Station

(i) TSP shall supply, install & commission FODP with minimum 288 Fiber capacity along with panel and approach Cable (48F each) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.

(ii) TSP shall supply, install & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum Six (6) directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement

among Shadnagar station, Kurnool-IV, Bidar, Shadnagar (TGTRANSCO) and Kethiredipally (TGTRANSCO). The suitable DC Power Supply and backup to be provided for communication equipment.

Note: Necessary optical interfaces to be provided by the TSP in the FOTE of Kurnool-IV and Bidar as per link budget requirement after change of fiber length due to LILO at Shadnagar (ISTS) station.

(iii) FODP & FOTE equipment with panels shall be provided in Control Room of Shadnagar station. FOTE & FODP Eq can be accommodated in same panel to optimize space.

(iv) TSP shall supply, install & commission Firewall in redundant mode (1+1) in line with the specification attached at **Annexure F.1**.

(v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, PMU, approach cable, DCPS alongwith Battery Bank & Firewall shall be the responsibility of TSP.

C.2.0 FOTE Requirement for: 400 kV (1 No.) and 220 kV (5 No.) line bays at Kurnool-IV for RE Generators (time schedule 24 months)

(i) TSP shall supply, install & commission FODP with minimum 192 Fiber capacity along with panel and approach Cable (24F each) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.

(ii) TSP shall supply, install & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum eight (8) directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement for 6 no RE Generators ((400 and 220 kV). Necessary direction shall be provided in the FOTE for RE Generators, however required optical interfaces shall be provided by RE Generators at the time of connectivity.

(iii) The suitable DC Power Supply and backup to be provided for communication equipment.

(iv) FODP & FOTE equipment with panels shall be provided in Control Room of Kurnool-IV station. FOTE & FODP Eq can be accommodated in same panel to optimize space.

(v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, PMU, approach cable, DCPS alongwith Battery Bank & Firewall shall be the responsibility of TSP.

C.3.0 FOTE Requirement for: 400 kV (1 No.) and 220 kV (8 No.) line bays at Kurnool-IV for RE Generators (time schedule 30 months)

(i) TSP shall supply, install & commission FODP with minimum 264 Fiber capacity along with panel and approach Cable (24F each) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.

(ii) TSP shall supply, install & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum eleven (11) directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement for 9 no RE Generators ((400 and 220 kV). Necessary direction shall be provided in the FOTE for RE Generators, however required optical interfaces shall be provided by RE Generators at the time of connectivity.

(iii) The suitable DC Power Supply and backup to be provided for communication equipment.

(iv) FODP & FOTE equipment with panels shall be provided in Control Room of Kurnool-IV station. FOTE & FODP Eq can be accommodated in same panel to optimize space.

(v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, PMU, approach cable, DCPS alongwith Battery Bank & Firewall shall be the responsibility of TSP.

C.4.0 FOTE requirement at Shadnagar (TGTRANSCO) S/s.

(i) TSP shall supply, install & commission FODP with minimum 144 Fiber capacity alongwith panel and required Approach Cable (48F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.

(ii) TSP shall supply, install & commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among Shadnagar (TGTRANSCO) S/s, Shadnagar (ISTS) S/s and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.

(iii) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of **Shadnagar (TGTRANSCO)** which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).

(iv) FOTE & FODP can be accommodated in same panel to optimize space.

(v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.

C.5.0 FOTE requirement at Kethiredipally (TGTRANSCO)S/s.

(i) TSP shall supply, install & commission FODP with minimum 144 Fiber capacity alongwith panel and required Approach Cable (48F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.

(ii) TSP shall supply, install & commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among Kethiredipally (TGTRANSCO) S/s, Shadnagar (ISTS) S/s and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.

(iii) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of **Kethiredipally (TGTRANSCO)** which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).

(iv) FOTE & FODP can be accommodated in same panel to optimize space.

(v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.

C.6.0 OPGW requirement for LILO Portion of 765 kV Kurnool-IV – Bidar D/C line at Shadnagar station

On LILO of 765 kV Kurnool-IV – Bidar D/C line at Shadnagar station, TSP shall supply, install & commission OPGW and earthwire as per Tower Configurations:

(i) Loop-In and Loop out Ckt on Single Towers: Two (2) No. OPGW cable containing 48 Fibres (48F) to be installed & commissioned by the TSP on both the Earthwire peaks

(ii) Loop-In and Loop out Ckt on Two separate Towers: One (1) No. OPGW cable containing 48 Fibres (48F) on one earthwire peak & conventional earthwire on other E/W peak for both Loop In and Loop Out Lines.

(iii) The TSP shall install OPGW cables from gantry of Shadnagar station up to the LILO tower with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at Shadnagar station. The transmission line length is 50 kms (approx.). After LILO, if fiber length for links **Shadnagar station** to **Kurnool-IV** and **Shadnagar station** to **Bidar** is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.

(iv) TSP shall finalize the location of repeater station depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per **Appendix-F.1**

(v) Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.

C.7.0 Shadnagar station – Shadnagar (TGTRANSCO) 400 kV D/C line

(i) On Shadnagar station – Shadnagar (TGTRANSCO) S/s 400 kV D/C line, TSP shall supply, install & commission One (1) No. OPGW cable containing 48 Fibres (48F) on one E/W peak and conventional earth wire on other E/W peak.

(ii) The TSP shall install this OPGW from gantry of Shadnagar S/s up to the gantry of Shadnagar(TGTRANSCO) with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is **50 kms (approx.),** where repeater may not be required to meet the link budget requirement of Shadnagar station – Shadnagar(TGTRANSCO) link.

(iii) Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.

C.8.0 Shadnagar station – Kethiredipally (TGTRANSCO) 400 kV D/C line

(i) On Shadnagar station – Kethiredipally (TGTRANSCO) S/s 400 kV D/C line, TSP shall supply, install & commission One (1) No. OPGW cable containing 48 Fibres (48F) on one E/W peak and conventional earth wire on other E/W peak.

(ii) The TSP shall install this OPGW from gantry of Shadnagar S/s up to the gantry of Kethiredipally (TGTRANSCO) with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is **60 kms (approx.),** where repeater may not be required to meet the link budget requirement of Shadnagar station – Kethiredipally (TGTRANSCO) link.

(iii) Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.

C.9.0 Specific Requirement for Phasor Measurement Units (PMUs)

TSP shall supply, install and commission required No. of Phasor Measurement Units (PMUs) as per the "Guidelines on Unified Philosophy for placement of PMUs in Indian Grid" issued vide CEA letter No. CEA-PS-14-12/9/2024-PSETD Division dated 19.03.2025 for the scope of this RfP. The PMUs shall be provided with LAN switch and shall connect with LAN switch of control room of respective substations/ generating stations with Fiber Optic cable. These PMUs shall be connected with the FOTE at Substation/ generating stations for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for new PMU integration shall be done by respective RLDC, however all the necessary support in this regard shall be ensured by TSP. The maintenance of all the PMUs and associated equipment shall be the responsibility of TSP.

Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.

C.10.0 Specific Requirement for UNMS Integration of FOTE

Communication system integration in UNMS/CSMS

TSP is to ensure integration of communication system into UNMS/CSMS as per following:

"The new communication equipment/ system under the present scope shall be compatible for integration with existing regional level NMS system/ Centralized Supervision & Monitoring System (CSMS) i.e. Regional UNMS. The local configuration of the new communication equipment/ system at the station end shall be the responsibility of TSP as per followings. The configuration work in the existing centralized NMS/ UNMS at Control center end, for integration of new Communication equipment/ system shall be done by Regional ULDC Team/ NMT, however all the necessary support in this regard shall be ensured by TSP.

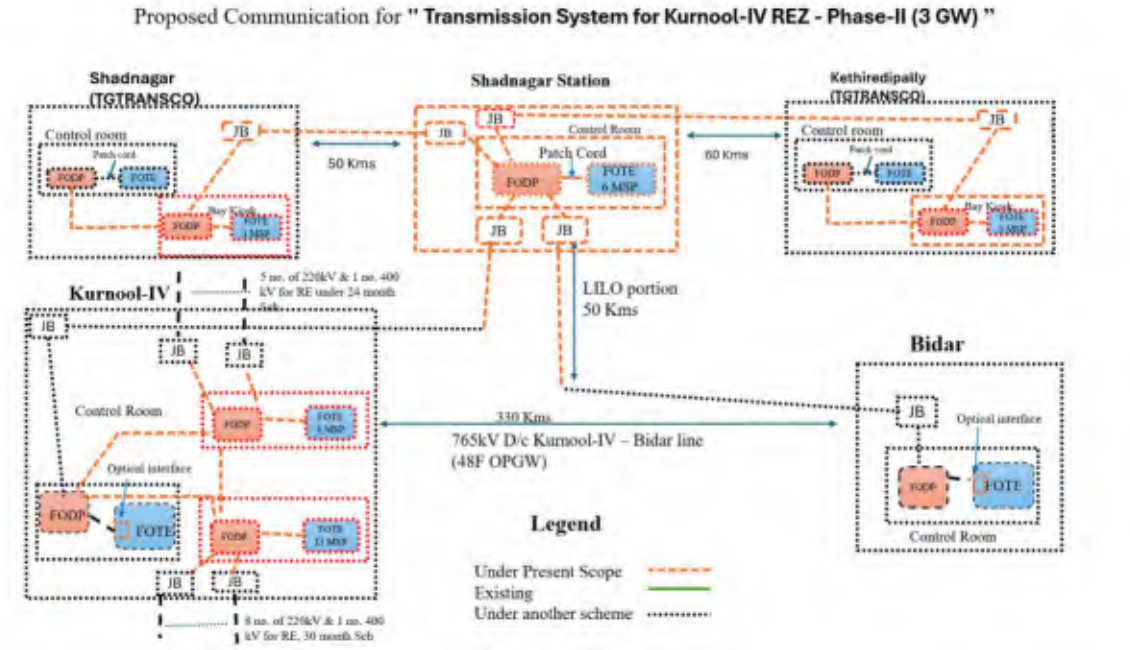
Requirement for integration of Communication Equipment/ system with Regional UNMS:

1. TSP shall ensure that NMS/EMS/NE supplied by them is NBI compliant and all FCAPS functionality is supported in the NBI such as NE Inventory, Hardware Inventory– Shelf/Slot/Card/SFP/Port, Topology, Protections, Alarms, Performance-real time & periodic, Performance KPI parameters (E-1, STM, Ethernet), Remote Configuration, Cross Connects, Trails & Circuits, Services Provisioning (NE), E-1, STM, Ethernet, TX & RX Trace, loop back and details are published in the NBI guide for the configuration parameters.

2. TSP shall be obliged to provide/share all necessary documentations such as NBI Guide/MIB/IDL/WSDL/API files etc. for onward integration of their NMS/EMS/NE with regional UNMS.

3. The following support shall be provided by TSP for integration of their supplied equipment with regional UNMS:
   - Enabling & activating NBI license in their EMS/NMS and providing NBI login access along with User credentials
   - Assist in verifying NBI Connectivity with UNMS vendor for the successful communication and retrieval of data.
   - Assist in troubleshooting (if required) for NBI connectivity along with UNMS vendor for the communication and retrieval of data.

4. For standalone NE which is not integrated with any EMS/NMS, TSP shall provide modality of complete FCAPS data acquisition as above through industry standard programmatic methods and provide the CLI command manual."


Proposed Communication for " Transmission System for Kurnool-IV REZ - Phase-II (3 GW) "
Shadnagar (TGTRANSCO)
Control room
Patch cord
FODP
FOTE
JB
Bay Sch.
50 Kms
Shadnagar Station
Control Room
Patch Cord
FOTE 6 MSP
60 Kms
Kethiredipally (TGTRANSCO)
Control room
LILO portion
50 Kms
Kurnool-IV
5 no. of 220kV & 1 no. 400 kV for RE under 24 month Sch
Control Room
Optical interface
FOTE 12 MSP
330 Kms
765kV D/c Kurnool-IV – Bidar line
(48F OPGW)
Bidar
Optical interface
Control Room
Legend
Under Present Scope
Existing
Under another scheme
8 no. of 220kV & 1 no. 400 kV for RE, 30 month Sch

Appendix-F.1

Repeater Requirements

- If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide OPGW to accommodate all the fibers in main transmission line on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and required approach Cable to accommodate all the OPGW fibers with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.
  TSP shall co-ordinate for Space & DC power supply sharing for repeater equipment.
  TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces required for link budget of respective link.

OR

- If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide OPGW to accommodate all the fibers in main transmission line on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and required approach Cable/UGFO to accommodate all the OPGW fibers with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed.
  TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.

OR

- If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide required approach Cable to accommodate all the OPGW fibers with all associated hardware fittings to establish connectivity up to the location of repeater shelter.
  TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems

  Maintenance of OPGW Cable and **OPGW Hardware**, repeater equipment & items associated with repeater shelter shall be responsibility of TSP.

Annexure-F.1

Next Generation Firewall (NGFW)

TSP shall provide 2 NGFW one in Main & another in Standby mode having electrical ethernet interfaces/ports and placed between FOTE & SAS gateway/s at the substation. All ethernet based applications shall be terminated in the firewall ports directly (e.g. PMU, AMR, VOIP, SAS/SCADA etc.). Each port of firewall shall work as a separate zone. Firewall shall be hardware based with features of Block/Allow/drop and IPSec VPN (network encryption).

The number of ports/interfaces in each firewall (i.e. Main & Standby) shall be minimum 16 Nos. TSP shall provide either single firewall or multiple firewalls to meet this interfaces requirement, each for main as well as standby firewall. Minimum throughput of firewall shall be 300 Mbps.

The Firewall shall be managed/ configured as standalone at present and shall also have compatibility to manage/configure through Centralized Management Console (CMC) remotely in future.

Firewall shall be tested and certified for ISO15408 Common Criteria for least EAL4+. Further, the OEM must certify that it conforms to Secure Product Development Life Cycle requirements as per IEC62443-4-1. The firewall shall generate reports for NERC-CIP Compliance.

The specifications for the firewalls are given at **Annexure-F.2** and schematic diagram showing firewall placement given at **Figure F.2**.

Annexure F.2

Specifications of Next Generation Firewall (NGFW)

1. NGFW shall have following features including but not limited to:
   Encryption through IPSec VPN (Virtual Private Network), Deep Packet Inspection (DPI), Denial of service (DoS) & Distributed Denial of Service (DDoS) prevention, Port Block/ Allow, rules/ policies for block/allow, IP (Internet Protocol) & Media Access Control (MAC) spoofing protection, threat detection, Intrusion Prevention System (IPS), Anti-Virus, Anti-Spyware, Man In The Middle (MITM) attack prevention.
2. The proposed firewall shall be able to handle (alert, block or allow) unknown /unidentified applications e.g. unknown TCP & UDP packets. It shall have the provision to define application control list based on application group and/or list.
3. Firewall shall have feature and also have capability to update the definition/ Signatures of Anti-Virus online as well as offline. Firewall shall also be compatible to update the definitions/signatures through CMC. There shall be a defined process for security patching and firmware up-gradation. There shall be a feature to field validate firmware checksum. The same shall also be validated before using the OEM provided file/binary in the process of firmware up-gradation and security patching
4. Firewall shall have Management Console port to configure remotely.
5. Firewall shall be EMI/EMC compliant in Substation environment as per IEC 61850-3.
6. Firewall shall be rack mounted in existing standard equipment cabinets.
7. Firewall shall have support of SCADA applications (IEC-60870-5-104), ICCP, PMU (IEEE C37.118), Sub-Station Automation System (IEC 61850), Ethernet and other substation environment protocols.
8. Client based Encryption/ VPN must support different Operating System platforms e.g. Windows, Linux & Mac.
9. The solution must have content and comprehensive file detection policies, blocking the files as function of their types, protocols and directions.
10. Firewall shall have logging facility as per standard logs/events format. Firewall shall have features to export the generated/stored logs/events in csv (Comma Separated Value) and also any other standard formats for offline usage, analysis and compliance. Firewall shall have suitable memory architecture and solution to store and be enable to export all logs/events for a period of last 90 days at any given time.
11. Firewall shall have features and be compatible with local as well as central authentication system (RADIUS, LDAP, or TACACS+) for user account and access right management. It shall also have Role Based User management feature.
12. Firewall shall have the capability to configure sufficient number of VLANs.
13. Firewall shall have the capability to support sufficient number of sessions.
14. Firewall shall have provision to configure multiple IP Sec VPNs, at least 100 Nos., (one-to-many or many-to-one). Shall support redundant operation with a similar router after creation of all the IP Sec VPN. IPSec VPN shall support encryption protocols as AES128, AES256 and hashing algorithms as MD5 and SHA1. IPSec VPN throughput shall support at least 300 Mbps

15. Firewall shall be capable of SNMP v3 for monitoring from Network Management system. It shall also have SNMPv3 encrypted authentication and access security
16. Firewall shall support in Active/Passive or Active-Active mode with High Availability features like load balancing, failover for firewall and IPsec VPN without losing the session connectivity.
17. Firewall should have integrated traffic shaping (bandwidth, allocation, prioritisation, etc.) functionality
18. Shall support simultaneous operation with both IPv4 and IPv6 traffic
19. Firewall shall be compatible with SNTP/NTP or any other standards for clock synchronization
20. Firewall shall have the features of port as well as MAC based security
21. Firewall shall support exporting of logs to a centralized log management system (e.g. syslog) for security event and information management.
22. Firewall time shall be kept synchronised to official Indian Timekeeping agency, time.nplindia.org.
23. Firewall product shall be provided with all applicable updates at least until 36 months since the applicable date of product shipping to the concerned utility.

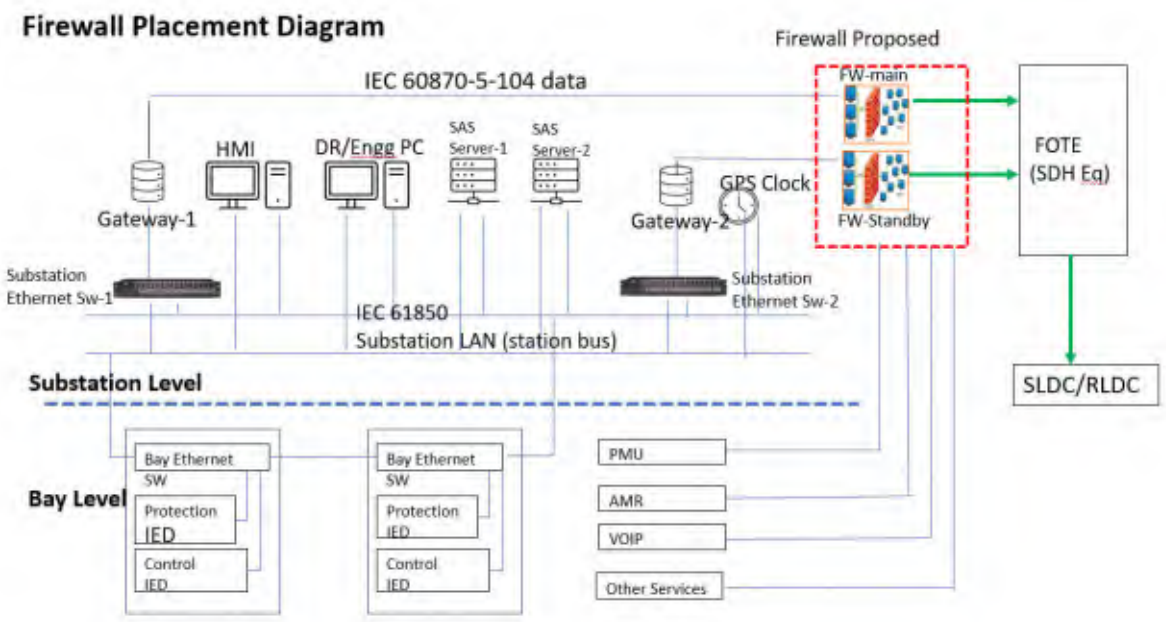

Firewall Placement Diagram
Firewall Proposed
IEC 60870-5-104 data
FW-main
FW-Standby
FOTE
(SDH Eq)
SLDC/RLDC
HMI
DR/Engg PC
SAS
Server-1
SAS
Server-2
GPS Clock
Gateway-1
Gateway-2
Substation
Ethernet Sw-1
Substation
Ethernet Sw-2
IEC 61850
Substation LAN (station bus)
Substation Level
Bay Level
Bay Ethernet
SW
Protection
IED
Control
IED
Bay Ethernet
SW
Protection
IED
Control
IED
PMU
AMR
VOIP
Other Services

Figure F.2

C.11.0 PLCC and PABX:

Power line carrier communication (PLCC) equipment complete for speech, tele-protection commands and data channels shall be provided on each transmission line. The PLCC equipment shall in brief include the following: -

- Coupling device, Coupling filters line traps, carrier terminals, protection couplers, HF cables, PABX (if applicable) and maintenance and testing instruments.
- At new substation, a telephone exchange (PABX) of 24 lines shall be provided at as means of effective communication among various buildings of the substation, remote end substations and with control centres (RLDC/ SLDC) etc.
- Coupling devices shall be suitable for phase-to-phase coupling for 400 kV Transmission lines. The pass band of coupling devices shall have sufficient margin for adding communication channel in future if required. Necessary protection devices for safety of personnel and low voltage part against power frequency voltages and transient over voltage shall also be provided.
- The line traps shall be broad band tuned suitable for blocking the complete range of carrier frequencies. Line Trap shall have necessary protective devices such as lightning arresters for the protection of tuning device. Decoupling network consisting of line traps and coupling capacitors may also be required at certain substation in case of extreme frequency congestion.
- The carrier terminals shall be of single side-band (SSB) amplitude modulation (AM) type and shall have 4 kHz band width. PLCC Carrier terminals and Protection couplers shall be considered for both ends of the line.
- PLCC equipment for all the transmission lines covered under the scheme shall be provided by TSP. PLCC to be provided for following lines under present scope:

Sl. No	Line name	PLCC configuration
1.	**Shadnagar – Shadnagar (TGTRANSCO) 400 kV D/C line**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.
2.	**Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.

- TSP shall provide/ undertake necessary addition/ modification/ shifting/ re-commissioning etc. of PLCC equipment due to LILO of transmission lines (wherever applicable).

Sl. No	Line name	PLCC configuration
1.	**Kurnool-IV – Shadnagar 765 kV D/C line [formed after LILO]**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends. Existing PLCC panels can also be utilized to

		meet the above configuration.
2.	**Shadnagar -- Bidar 765 kV D/C line [formed after LILO]**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends. Existing PLCC panels can also be utilized to meet the above configuration.

- Further, CVT and Wave trap for all 765 kV, 400 kV and 220 kV line bays under present scope shall be provided by TSP.
- All other associated equipment like cabling, coupling device and HF cable shall also be provided by the TSP.
- Two (2) sets of 48 V battery banks for PLCC and communication equipment shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required.

Annexure – G

Communication system integration in UNMS/CSMS

TSP is to ensure integration of communication system into UNMS/CSMS as per following:
"The new communication equipment/ system under the present scope shall be compatible for integration with existing regional level NMS system/ Centralized Supervision and Monitoring System (CSMS) i.e. Regional UNMS. The local configuration of the new communication equipment/ system at the station end shall be the responsibility of TSP as per followings. The configuration work in the existing centralized NMS/ UNMS at Control center end, for integration of new Communication equipment/ system shall be done by Regional ULDC Team/ NMT, however all the necessary support in this regard shall be ensured by TSP.

Requirement for integration of Communication Equipment/ system with Regional UNMS:

1. TSP shall ensure that NMS/EMS/NE supplied by them is NBI compliant and all FCAPS functionality is supported in the NBI such as NE Inventory, Hardware Inventory– Shelf/Slot/Card/SFP/Port, Topology, Protections, Alarms, Performance-real time and periodic, Performance KPI parameters (E-1, STM, Ethernet), Remote Configuration, Cross Connects, Trails and Circuits, Services Provisioning (NE), E-1, STM, Ethernet, TX and RX Trace, loop back and details are published in the NBI guide for the configuration parameters.

2. TSP shall be obliged to provide/share all necessary documentations such as NBI Guide/MIB/IDL/WSDL/API files etc. for onward integration of their NMS/EMS/NE with regional UNMS.

3. The following support shall be provided by TSP for integration of their supplied equipment with regional UNMS:
   1) Enabling and activating NBI license in their EMS/NMS and providing NBI login access along with User credentials
   2) Assist in verifying NBI Connectivity with UNMS vendor for the successful communication and retrieval of data.
   3) Assist in troubleshooting (if required) for NBI connectivity along with UNMS vendor for the communication and retrieval of data.

4. For standalone NE which is not integrated with any EMS/NMS, TSP shall provide modality of complete FCAPS data acquisition as above through industry standard programmatic methods and provide the CLI command manual."

Annexure-H

Frequently Asked Queries:

1.0 Transmission Line:

1.1 Please clarify that whether shutdowns for crossing of existing transmission lines of POWERGRID/STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP on chargeable basis or free of cost.

Reply: Shutdowns for crossing of existing transmission lines of POWERGRID/ STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP by the concerned owner of the lines as per their own terms and conditions. As far as shutdown of ISTS lines are concerned the same can be availed by approaching respective Regional Power Committee.

1.2 We understand that the suggested swing angle criteria are applicable for Suspension Insulator in Suspension Tower. Further, you are requested to provide similar swing angle and clearance criteria for Pilot Insulator with Jumper and Jumper.

Reply: It is clarified that the swing angle criteria (as mentioned in RFP) for transmission lines is applicable for Suspension Insulator in Suspension Tower. Further, as per Clause 3.0 of Specific Technical Requirements for transmission lines, Transmission service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.

1.3 We request you to kindly allow that use of diamond configuration at Power line crossings and the existing owner of the lines may be directed to allow the same for the successful bidders.

Reply: Power line crossing including Diamond configuration is the responsibility of the TSP. TSP shall formally submit the profile of the crossing section to the owner of the existing line suggesting proposed crossing alternatives. The crossing will have to be carried out as per approval of owner of the existing line.

1.4 It is requested you to kindly provide present status of Forest Clearances if any transmission line corridor area falling in wildlife forest / reserve forest/ mangroves

Reply: Based on the preliminary route survey, the process of initiation of forest clearance for the forest stretches, if any, enroute the proposed line alignment will be initiated by way of writing letters to the concerned authority (ies). However, it may be noted that it will be the responsibility of TSP for obtaining forest clearance for the forest stretches as provided in the survey report and also for any forest area encountered during

detailed survey.

1.5 For transmission line, no special requirement is specified for type of Insulator and creepage in RFP document. Hence it is understood that bidder can decide the type of insulator along with creepage requirement based on general CEA regulations and relevant standards. Kindly confirm.

Reply: The minimum specific creepage distances shall be decided for the site pollution severity in the area of installation keeping in mind further increase in pollution during life of the line. It shall be as per CEA regulations and relevant standards. However, the tower shall be designed considering the porcelain insulators with creepage factor of 31 mm/kV irrespective of type of insulator used.

2.0 Substation

2.1 We understand that space for storage of O&M spare shall be provided by existing owner within the station boundary without any cost. Kindly confirm.

Reply: Space for storage of O&M spares shall be arranged by TSP on its own.

2.2 We presume that the O&M for the end Termination bays will be in the scope of the TSP and TSP shall not be liable for any payment towards O&M to the existing owner of the substation. Kindly confirm.

Reply: Operation and maintenance of the bays is solely responsibility of the TSP. Further, TSP shall follow CEA's "Operation and Maintenance (O&M) guidelines and Standard Format for Memorandum of Understanding between New TSP and Existing TSP" issued by CEA vide its letter No. I/28514/2023 dated 22.06.2023.

2.3 With reference to subject scheme of existing sub-station, we assumed following scope of work:

(a) We assumed internal road is available and need not to be consider in the present scope of work.

(b) Drainage is available and need not to consider in the present scope of work.

(c) Cable trench extension adjacent to Main cable trench only under present scope of work.

(d) Levelled area being provided by developer for bay extension.

Reply: Regarding requirement of internal road, drainage, cable trench, leveling of the bay extension area, bidder is advised to visit site and acquaint themselves with the provisions/facilities available at substation.

2.4 Kindly provide the soil investigation report of soil parameters of existing substation.

Reply: Bidder is advised to visit the substation site and ascertain the requisite parameters.

2.5 Kindly confirm, energy accounting of aux. power consumption. Whether it will be on chargeable basis or part of transmission loss.

Reply: It will be on a chargeable basis.

2.6 We understand that VMS requirement is for unmanned stations only. For Manned stations VMS is not compulsory.

Reply: VMS shall be provided in line with requirements of RfP document.

2.7 It is understood that Construction water and power shall be provided free of cost to TSP by respective substation owner for construction of new bay.

Reply: Arrangement of construction power and water is in the scope of TSP.

2.8 It is understood that the existing fire hydrant system shall be extended by the TSP for bay extension.

Reply: Existing fire hydrant system shall be extended from existing system (if required)

2.9 Please clarify the Status of land acquisition for new Substations. Whether the lands have been acquired by BPC and will be transferred to TSP.

Reply: The acquisition of land for new substation is in the scope of TSP.

2.10 We understood that no any dedicated metering CT and CVT required for Line/feeders. Further, we understood that requisite Energy meters for various 765 kV, 400 kV and 220 kV Feeders shall be provided and installed by CTU free of cost to TSP.

Reply: Dedicated metering CT and CVT are not required for line/feeders. Metering core of existing CT/CVT can be used provided accuracy class matches with metering requirement. Requisite Special Energy Meters shall be provided and installed by CTU at the cost of TSP in C&P panel subject to space availability, else, in separate metering panel (to be provided by TSP at its cost).

2.11 A draft copy of the Connection Agreement may be furnished. A draft copy of the Connection Agreement may be furnished.

Reply: Web page link https://www.ctuil.in/formats_gna_transition

2.12 Please clarify whether the spare 765 kV single phase Reactor unit for Bus reactor shall be

provided with 1ph 765 kV CB.

Reply: As per RfP, the spare 1-Ph reactor unit shall be utilized for all the bus and switchable line reactor banks (including for future reactor banks). Hence, 1ph 765 kV
CB shall also be provided with spare 1-Ph reactor for utilizing with bus reactor as well as switchable line reactor.

2.13 It is understood that existing busbar protection has provision for future bays and also PUs are available for future bays. BPC to confirm availability of CU and PU for bays under present scope of work at existing substations. BPC may kindly confirm availability of communication ports for integrating new PUs with the existing CUs at existing substations.

Reply: Bus Bar Protection with Central Unit (CU) is required for the new bus section as specified in RfP. Peripheral Units (PUs) shall be provided by the respective bay owner. Further, augmentation/replacement of existing CU, if required, to meet the system requirement shall also be provided for proper functioning of bus bar protection.

2.14 For SCADA, it is understood that necessary process I/O shall be available for future bays and accordingly license for same. BPC to confirm.
Reply: Necessary process I/O along with license shall be in the scope of the successful bidder.

2.15 No separate FF system is envisaged under the present scope of work for existing substation. BPC to confirm.

Reply: Existing fire-fighting systems shall be extended to meet the additional requirements under present scope.

2.16 PLCC for 220 kV Lines are not under the scope of TSP. BPC to Confirm.It is requested to provide Type of Coupling for 220 kV Transmission Lines under present scope.

Reply: PLCC for 220 kV line is in the scope of developer of the line.
Inter circuit coupling for 220 kV D/C and phase to phase coupling for 220 kV S/C shall be applicable for PLCC.

2.17 BPC is requested to confirm the availability of space in the existing control rooms at existing substation for execution of extension work under current project.

Reply: Switchyard Panel Rooms are generally required for AIS type substation and relay room are required for GIS type substation. Further, if needed, the control room shall be augmented as per requirement.

3.0 <u>Communication</u>

3.1 What are the usage of OPGW, FOTE, PMU etc. under communication requirement of

RFP?

Reply: User shall be responsible for providing compatible equipment along with appropriate interface for uninterrupted communication with the concerned control center and shall be responsible for successful integration with the communication system provided by CTU.

Communication systems e.g. OPGW, FOTE etc. and PMU are required for grid operation through RLDC/SLDC, speech communication, tele-protection and tele-metering.

3.2 Is space for installation of communication panels are provided to TSP in existing Substations incase new bays are in the scope of TSP?

Reply: The space related issues are deliberated in the RfP itself. TSP to install FOTE/FODP panels in the new Bay Kiosk (Switchyard Panel Room (SPR)) / Bay Kisok/ Relay Panel Room (in case of GIS S/s). Further, TSP to connect and integrate the proposed FOTE with the existing FOTE in the control room to complete communication path up to RLDC.

In Case 132 kV Substation TSP shall accommodate the said panels either by extension of existing control room or other arrangements.

3.3 How is the OPGW laying done in case of LILO lines?

Reply: In case LILO lines are on same towers (e.g. both Line in and Line Out portion are on same towers, generally done LILO of S/C lines). Then 2x48F OPGW shall be required to install by TSP on both earthwire peak on 400 kV and 765 kV lines where two E/W peaks are available. On 220 kV and 132 kV lines where only one E/W peak is available TSP to install one No. 96F OPGW.

Incase LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then 1x48F OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on second earthwire peak, on both Line In and Line Out portion towers of 400 kV and 765 kV lines. On 220 kV and 132 kV lines where only one E/W peak is available TSP to install one No. 48F OPGW in place of conventional earthwire.

3.4 How is the OPGW laying done in case Multi circuit Towers?

Reply: In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two No. 48F OPGW to be installed on both E/W peaks for common M/C portion of 765 kV and 400 kV lines.

In case 220/132 kV lines using multi circuit portion where single E/W peak is available one No. 96F may be installed for common multi circuit portion.

3.5 How PMUs are integrated for new bays at existing Substations?

Reply: PMU data of new bays to be provided in the ethernet port of switch at control **room** and thereafter to be connected with existing FOTE of existing substation to send data to PDC of RLDC by TSP. These PMUs shall be provided with GPS/NavIC clock and LAN switch and shall connect with LAN switch of control room of respective substations with Fiber Optic cable. In this regard, the "Guidelines on Unified Philosophy for placement of PMUs in Indian Grid" issued vide letter No. CEA-PS-14-12/9/2024-PSETD Division dated 19.03.2025 shall be followed.

3.6 Is Spare direction available in existing FOTE for integration with new bay kiosk FOTE

Reply: The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of substation for onwards data transmission.
In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room.

3.7 What is the distance from LILO point to proposed substation for feasibility of repeater station?

Reply: Tentative Location of LILO point shall be as per survey report of BPC however, exact location to be ascertained after detailed survey by TSP.

3.8 What is the make and model of existing OPGW in case LILO of main line at new substation?

Reply: All OPGW (alongwith optical fibers) meet Central Electricity Authority (Technical Standards for Communication System in Power System Operations) Regulations, 2020 and bidder shall install OPGW accordingly.

3.9 In case of LILO of existing line at new substation who shall provide PMUs at existing substation bays?

Reply: TSP shall provide the PMUs for the scope under the RfP and the same shall comply with the "Guidelines on Unified Philosophy for placement of PMUs in Indian Grid" issued vide letter No. CEA-PS-14-12/9/2024-PSETD Division dated 19.03.2025.

4.0 Planning :

4.1 Whether the Project/ Elements are eligible for early commissioning incentive as per MoP, GoI order dated 15.07.2015.?

Reply: Commissioning is to be done as per the timeline mentioned in RfP. However, early commissioning shall be treated as per applicable CERC Regulations/orders.

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **September 18, 2025 till 15:00 hrs (IST) to September 26, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e. **September 26, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

September 24, 2025

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **September 26, 2025 till 15:00 hrs (IST) to October 10, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e. **October 10, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **October 10, 2025 till 15:00 hrs (IST) to October 17, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e. **October 17, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **October 17, 2025 till 15:00 hrs (IST) to October 30, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **October 30, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **October 30, 2025 till 15:00 hrs (IST) to November 17, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **November 17, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **November 17, 2025 till 15:00 hrs (IST) to December 15, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **December 15, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

December 10, 2025

Sub: Notice for extension of RFP bid submission date for the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **December 15, 2025 till 15:00 hrs (IST) to December 30, 2025 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **December 30, 2025 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **December 30, 2025 till 15:00 hrs (IST) to January 08, 2026 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **January 08, 2026 at 15:30 hrs (IST).**

PFC Consulting Limited

Amendment No. 08 dated 24.12.2025 to the RFP documents for selection of Bidder as Transmission Service Provider for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"

<table>
<tr><th>S. No.</th><th>Existing Provisions</th><th>Modified Provisions</th></tr>
<tr><td>1.</td><td>All the relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025

Detailed Scope of Work
<table>
<tr><th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity /km</th></tr>
<tr><td>1.</td><td>----------</td><td>----------</td></tr>
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<tr><td>5.</td><td>----------</td><td>----------</td></tr>
<tr><td>6.</td><td>----------</td><td>----------</td></tr>
<tr><td>7.</td><td>Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard

Future Space Provisions:

765/400 kV, 1500 MVA, ICTs – 2 Nos.</td><td>765/400 kV, 1500 MVA, ICTs – 4 Nos. (13x500 MVA incl. 1 spare unit)
765 kV ICT bay – 4 nos.
400 kV ICT bay – 4 nos.
765 kV line bays – 4 nos. (at Shadnagar for termination of LILO of Kurnool-IV – Bidar 765</td></tr>
</table></td><td>All the relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025

Detailed Scope of Work
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<tr><td>6.</td><td>----------</td><td>----------</td></tr>
<tr><td>7.</td><td>Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard

Future Space Provisions:

• 765/400 kV, 1500 MVA, ICTs</td><td>• 765/400 kV, 1500 MVA, ICTs – 4 Nos. (13x500 MVA including 1 spare unit)
• 765 kV ICT bay – 4 Nos.
• 400 kV ICT bay – 4 Nos.
• 765 kV line bays – 4 Nos. (at Shadnagar for termination of LILO of Kurnool-IV –</td></tr>
</table></td></tr>
</table>

S. No.	Existing Provisions			Modified Provisions		
		765 kV ICT bays – 2 Nos. 400 kV ICT bays – 2 Nos. 765 kV line bays – 8 Nos. (with provision for SLR) 400 kV line bays – 8 Nos. (with provision for SLR) 400 kV Bus Sectionalizer: 1 set Future Space Provisions for 220kV switchyard: 400/220 kV, 500 MVA, ICTs – 10 Nos. 400 kV ICT bays – 10 Nos. 220 kV ICT bays – 10 Nos. 220 kV line bays – 16 Nos. 220 kV Bus Sectionalizer: 3 set 220 kV Bus Coupler (BC) Bay – 4 Nos. 220 kV Transfer Bus Coupler (TBC) Bay – 4 Nos.	kV D/C line) 765 kV, 330 MVAr Bus Reactors – 2 Nos. (7x110 MVAr inc. 1 switchable spare unit) 765 kV Bus Reactor bays – 2 nos. 400 kV line bays – 4 Nos. (at Shadnagar for termination of Shadnagar – Shadnagar (TGTRANSCO) and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C lines)		– 2 Nos. • 765 kV ICT bays – 2 Nos. • 400 kV ICT bays – 2 Nos. • 765 kV line bays – 8 Nos. (with provision for SLR) • 400 kV line bays – 8 Nos. (with provision for SLR) • 400 kV Bus Sectionalizer: 1 set Future Space Provisions for 220 kV switchyard: • 400/220 kV, 500 MVA, ICTs – 10 Nos. • 400 kV ICT bays – 10 Nos. • 220 kV ICT bays – 10 Nos. • 220 kV line bays – 16 Nos. • 220 kV Bus Sectionalizer: 3 set • 220 kV Bus Coupler (BC) Bay – 4 No. • 220 kV Transfer Bus Coupler (TBC) Bay – 4 No.	Bidar 765 kV D/C line) • 765 kV, 330 MVAr Bus Reactors – 2 Nos. (7x110 MVAr inc. 1 switchable spare unit) • 765 kV Bus Reactor bays – 2 Nos. • 400 kV line bays – 4 Nos. (at Shadnagar for termination of Shadnagar – Shadnagar GIS (TGTRANSCO) and Shadnagar – Kethireddypally (TGTRANSCO) 400 kV **Twin HTLS** D/c lines))
	8.	LILO of Kurnool-IV – Bidar 765 kV D/C line at Shadnagar (about 50 kms)	~ 50 km	8.	LILO of Kurnool-IV – Bidar 765 kV D/C line at Shadnagar	**~ 20 km**
	9.	Shadnagar – Shadnagar	~ 50 km			

S. No.	Existing Provisions	Modified Provisions
	(TGTRANSCO) 400 kV quad D/C line (about 50 kms) {TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame} — 400 kV line bays – 2 Nos. (at Shadnagar (TGTRANSCO))	(about **20 kms**)
10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line (about 60 kms) — ~ 60 km; 400kV line bays – 2 Nos. (at Kethiredipally (TGTRANSCO))	9. Shadnagar – Shadnagar GIS (TGTRANSCO) 400 kV **Twin HTLS** D/C line (about **40 kms**) {TGTRANSCO to upgrade Shadnagar GIS (TGTRANSCO) to 400 kV in matching time frame} — **~ 40 km**; 400 kV line bays – 2 Nos. (at Shadnagar (TGTRANSCO))
		10. Shadnagar – Kethireddypally (TGTRANSCO) 400 kV **Twin HTLS** D/C line (about **50 kms**) — **~ 50 km**; 400 kV line bays – 2 Nos. (at Kethiredipally (TGTRANSCO))
	i) TSP of Kurnool-IV Phase-I shall provide space at Kurnool-IV PS for carrying out above augmentation works *ii) TGTRANSCO shall provide space for 2 Nos. of 400 kV line bays at Shadnagar GIS (TGTRANSCO) and Kethireddipally each for termination of Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/C line and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line.*	*i) TSP of Kurnool-IV Phase-I shall provide space at Kurnool-IV PS for carrying out above augmentation works* *ii) TGTRANSCO shall provide space for 2 Nos. of 400 kV line bays at Shadnagar GIS (TGTRANSCO) and Kethireddypally each for termination of Shadnagar – Shadnagar (TGTRANSCO) 400 kV **Twin HTLS** D/C line and Shadnagar – Kethireddypally (TGTRANSCO) 400 kV **Twin HTLS** D/C line.* ***iii) For termination of Shadnagar – Kethireddypally (TGTRANSCO) 400 kV Twin HTLS D/C line at Kethireddypally (TGTRANSCO), rerouting of 220 kV transmission line is required at Kethireddypally (TRGTRANSCO) S/s. The same will be done by TGTRANSCO at cost of TSP.***

Amendment No. 08 dated 24.12.2025 to the RFP documents for selection of Bidder as Transmission Service Provider for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"

<table>
<tr><th>S. No.</th><th>Existing Provisions</th><th>Modified Provisions</th></tr>
<tr><td></td><td></td><td>iv) TSP is required to build portion of Shadnagar – Shadnagar GIS (TGTRANSCO) 400 kV Twin HTLS D/C line and Shadnagar – Kethireddypally (TGTRANSCO) 400 kV Twin HTLS D/C line on 400 kV monopole towers for the densely populated/ urban / industrial area/ forest and near substations to avoid/ minimize RoW issue.</td></tr>
<tr><td>2.</td><td>All the relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025
<table>
<tr><th>Sl. No.</th><th>Name of the Transmission Element</th><th>Scheduled COD as per Gazette Notification</th><th>% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project</th><th>Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element</th></tr>
<tr><td>1.</td><td>----------</td><td rowspan="3"></td><td rowspan="3"></td><td>----------</td></tr>
<tr><td>2.</td><td>----------</td><td>----------</td></tr>
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<tr><th>Sl. No.</th><th>Name of the Transmission Element</th><th>Scheduled COD as per Gazette Notification</th><th>% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project</th><th>Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element</th></tr>
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</table></td></tr>
</table>

S. No.	Existing Provisions					Modified Provisions				
	5.	----------			----------	7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard			----------
	6.	----------			----------	8.	LILO of Kurnool-IV–Bidar 765kV D/C line at Shadnagar (about **20 kms**)			----------
	7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4,5,6 & 8-10	9.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV **Twin HTLS** D/C line (about **40 kms**) {TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame}			----------
	8.	LILO of Kurnool-IV – Bidar 765kV D/C line at Shadnagar (about 50 kms)	30 months	91.43	Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4-7, 9 & 10	10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV			----------
	9.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/C line (about 50 kms) {TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame}			Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4-8 & 10					

<table>
<tr><th>S. No.</th><th>Existing Provisions</th><th>Modified Provisions</th></tr>
<tr><td></td><td>
<table>
<tr><td>10.</td><td>Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c line (about 60 kms)</td><td></td><td></td><td>Kurnool-IV Phase-I Tr. System and Element at Sl. No. 4-9</td></tr>
</table>
</td><td>
<table>
<tr><td></td><td>Twin HTLS D/C line (about 50 kms)</td><td></td><td></td><td></td></tr>
</table>
</td></tr>
<tr><td>3.</td><td>Relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025
<u>Specific Technical Requirements for Transmission Line</u>

A.8.0……..
A ……
B. For the following 400 kV lines:
i. Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/c line
ii. Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c line
Type of conductor: ACSR / AAAC / AL59
<u>Basic Parameters:</u>
<table>
<tr><th>Transmission line</th><th>ACSR Conductor specified</th><th>Equivalent AAAC conductor based on</th><th>Equivalent minimum size of AL59 conductor based on 59%</th><th>Sub-conductor Spacing</th></tr>
</table>
</td><td>Relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025
<u>Specific Technical Requirements for Transmission Line</u>

A.8.0……..
A……
B. For the following 400 kV lines:
i. Shadnagar – Shadnagar (TGTRANSCO) 400 kV Twin HTLS D/C line
ii. Shadnagar – Kethiredipally (TGTRANSCO) 400 kV Twin HTLS D/C line
Type of conductor: HTLS (High Temp & low Sag)
<u>Basic Parameters:</u>
<table>
<tr><th>Transmission line</th><th>Ampacity of HTLS conductor</th><th>Minimum Conductor diameter (mm)</th><th>Maximum DCResistance at 20°C (Ω/km)</th><th>Sub-conductor Spacing (mm)</th></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Existing Provisions</th><th>Modified Provisions</th></tr>
<tr><td></td><td>
<table>
<tr><td></td><td></td><td>53% conductivity of Al Alloy</td><td>conductivity of AL Alloy*</td><td></td></tr>
<tr><td>400 kV D/C (Quad Bundle) transmission lines</td><td>Moose:
Stranding
54/3.53mm-Al + 7/3.53 mm- Steel,

31.77 mm diameter

528.5 mm^2, Aluminium area,

Maximum DC Resistance at 20°C (Ω/km): 0.05552</td><td>Stranding details:
61/3.55mm

31.95mm diameter;

604 mm^2 Aluminium alloy area

Maximum DC Resistance at 20°C (Ω/km): 0.05506</td><td>Stranding details:
61/3.31mm

29.79 mm diameter;

525 mm^2 Aluminium alloyarea

Maximum DC Resistance at 20°C (Ω/km): 0.0566</td><td>457 mm</td></tr>
</table>
</td><td>
<table>
<tr><td>400 kV Transmission lines with Twin HTLS conductor</td><td>1516* A</td><td>28.62</td><td>0.0549</td><td>450</td></tr>
</table>
* Considering minimum 2100 MVA per circuit capacity at nominal voltage level.
</td></tr>
</table>

S. No.	Existing Provisions	Modified Provisions
	<table><tr><td></td><td>Minimum UTS: 161.20 kN</td><td>Minimum UTS: 159.80 kN</td><td>Minimum UTS: 124.70 kN</td><td></td></tr></table>	
4.	**Relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025** **Specific Technical Requirements for Substation** **New clause to be added under point (ix) at clause B.1.2**	**Relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025** **Specific Technical Requirements for Substation** **ix) 765/400 Shadnagar S/S (AIS):** *765 kV bay configurations (one and half breaker scheme) shall be as follows:* <table><tr><th>Configuration</th><th>Number of Diameters</th></tr><tr><td>*ICT- Tie- Line*</td><td>*4 (four)*</td></tr><tr><td>*Bus Reactor- Tie- Space provision for Future Line with Switchable line Reactor**</td><td>*2 (two)*</td></tr></table>

<table>
<tr><th>S. No.</th><th>Existing Provisions</th><th>Modified Provisions</th></tr>
<tr><td></td><td></td><td>* Bays shall be utilized for the termination of Kurnool-V – Shadnagar 765 kV D/C line at Shadnagar S/S proposed under a separate Transmission scheme "Transmission System for integration of Kurnool-V REZ - Phase-I".</td></tr>
<tr><td>5.</td><td>Relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025

Specific Technical Requirements for Communication

C.11.0 PLCC and PABX:

PLCC equipment for all the transmission lines covered under the scheme shall be provided by TSP. PLCC to be provided for following lines under present scope:

<table>
<tr><th>Sl. No</th><th>Line name</th><th>PLCC configuration</th></tr>
<tr><td>1.</td><td>Shadnagar – Shadnagar (TGTRANSCO) 400 kV D/c line</td><td>1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.</td></tr>
<tr><td>2.</td><td>Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c line</td><td>1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.</td></tr>
</table></td><td>Relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025

Specific Technical Requirements for Communication

C.11.0 PLCC and PABX:

PLCC equipment for all the transmission lines covered under the scheme shall be provided by TSP. PLCC to be provided for following lines under present scope:

<table>
<tr><th>Sl. No</th><th>Line name</th><th>PLCC configuration</th></tr>
<tr><td>1.</td><td>Shadnagar – Shadnagar (TGTRANSCO) 400 kV Twin HTLS D/C line</td><td>1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.</td></tr>
<tr><td>2.</td><td>Shadnagar – Kethiredipally (TGTRANSCO) 400 kV Twin HTLS D/C line</td><td>1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.</td></tr>
</table></td></tr>
</table>

Amendment No. 08 dated 24.12.2025 to the RFP documents for selection of Bidder as Transmission Service Provider for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"

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<tr><td>6.</td><td>Relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025
ANNEXURE-C "Location Details of Existing / Planned Substations"
Kurnool IV 765/400/220 kV PS: Co-ordinates are yet to be finalised by the developer.</td><td>Relevant provisions of RFP read with Amendment No. 7 dated 12.09.2025
ANNEXURE-C "Location Details of Existing / Planned Substations"
Kurnool IV 765/400/220 kV PS: Co-ordinates are given below:
<table><tr><th>LATITUDE</th><th>LONGITUDE</th></tr><tr><td>15°29'45.14"</td><td>77°14'45.55"</td></tr><tr><td>15°29'35.84"</td><td>77°15'7.72"</td></tr><tr><td>15°29'4.76"</td><td>77°14'50.61"</td></tr><tr><td>15°29'13.21"</td><td>77°14'28.60"</td></tr></table></td></tr>
</table>

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **January 08, 2026 till 15:00 hrs (IST) to January 15, 2026 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **January 15, 2026 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

January 13, 2026

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **January 15, 2026 till 15:00 hrs (IST) to January 22, 2026 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **January 22, 2026 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

January 19, 2026

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **January 22, 2026 till 15:00 hrs (IST) to January 29, 2026 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **January 29, 2026 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

January 28, 2026

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **January 29, 2026 till 15:00 hrs (IST) to February 06, 2026 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **February 06, 2026 at 15:30 hrs (IST).**

PFC Consulting Limited

Amendment No. 10 dated 13.01.2026 to the RFP documents for selection of Bidder as Transmission Service Provider for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"

S. No.	Existing Provisions	Modified Provisions
1.	**All the relevant clauses of RFP and TSA read in conjunction with all the issued clarifications and amendments** Shadnagar Station/ Shadnagar Sub-Station (New substation which is to be implemented under present scheme)	**All the relevant clauses of RFP and TSA read in conjunction with all the issued clarifications and amendments** Shadnagar Station/ Shadnagar Sub-Station (New substation which is to be implemented under present scheme) **shall be read as Doma Substation.**
2.	……	The co-ordinates of Doma Substation has been shared through revised survey report issued on 13.01.2026.

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

February 05, 2026

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **February 06, 2026 till 15:00 hrs (IST) to February 16, 2026 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **February 16, 2026 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

February 13, 2026

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **February 16, 2026 till 15:00 hrs (IST) to February 23, 2026 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **February 23, 2026 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

February 20, 2026

Sub: Notice for extension of RFP bid submission for the Independent Transmission Project (ITP) "Transmission system for Kurnool-IV REZ Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject project has been extended from **February 23, 2026 till 15:00 hrs (IST) to March 03, 2026 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **March 03, 2026 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

February 27, 2026

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **March 03, 2026 till 15:00 hrs (IST) to March 09, 2026 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **March 09, 2026 at 15:30 hrs (IST).**

PFC Consulting Limited

Amendment No. 11 dated 02.03.2026 to the RFP documents for selection of Bidder as Transmission Service Provider for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"

S. No.	Existing Provisions	Modified Provisions
1.	**All the relevant clauses of RFP and TSA read in conjunction with all the issued clarifications and amendments** Scheduled COD of the Transmission Elements: 30 Months	**All the relevant clauses of RFP and TSA read in conjunction with all the issued clarifications and amendments** Scheduled COD of the Transmission Elements: **36 Months** **SCOD of other elements under the Scheme remains unchanged.**

PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

March 06, 2026

Sub: Notice for extension of RFP bid submission for transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

The due date for submission of online RFP bids (Technical & Financial) through the electronic bidding platform for the subject transmission scheme has been extended from **March 09, 2026 till 15:00 hrs (IST) to March 10, 2026 till 15:00 hrs (IST).** The RFP (Technical) Bids will be opened on same day i.e., **March 10, 2026 at 15:30 hrs (IST).**

PFC Consulting Limited

PFC CONSULTING LIMITED

(A wholly owned subsidiary of PFC Limited)

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Regd. Office: First Floor, "Urjanidhi", 1, Barakhamba Lane, Connaught Place, New Delhi – 110001, Fax: 011-23443990

GLOBAL INVITATION (THROUGH E-BIDDING ONLY)

FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTRA-STATE TRANSMISSION PROJECT

PFC Consulting Limited, a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of transmission projects on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of "Request for Proposal" (RFP).

Interested bidders may refer to the RFP notification and RFP documents available on the website **https://www.mstcecommerce.com** and **https://www.pfcclindia.com.**

The Bidders may obtain the RFP documents on all working days between 10:30 hrs (IST) and 16:00 hrs (IST) **from 05.05.2025 to one working day prior to bid submission for the projects mentioned below** on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 9th Floor, Wing – A, Statesman House, Connaught Place, New Delhi - 110001, Tel.: 91-11-23443996; Fax: 91-11-23443990; e-mail: **pfccl.itp@pfcindia.com.** The RFP documents can also be downloaded from **https://www.mstcecommerce.com** and **https://www.pfcclindia.com,** however, in such case, interested party can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% separately. The survey report and clarification to RFP documents shall be issued to those bidders, who have obtained/ purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc., if any. The important timelines in this regard are as follows:

S. No.	Name of Transmission Scheme	Last Date for seeking clarifications (dd/mm/yyyy)	Last Date for submission of response to RFP (dd/mm/yyyy)	Date of opening of response to RFP(dd/mm/yyyy)
1.	**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**	**26/05/2025**	**08/07/2025 up to 15:00 hrs (IST)**	**08/07/2025 at 15:30 hrs (IST)**

Note: PFC Consulting Limited reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Bid Process Coordinator

PFC CONSULTING LTD.

(A wholly owned subsidiary of PFC Ltd.)
(A Govt. of India Undertaking)

An Initiative of

सत्यमेव जयते

Ministry of Power
Government of India

Initiative Partner

केविप्रा CEA

Central Electricity Authority

Size_12cm X 14cm

पीएफसी कंसल्टिंग लिमिटेड

(पीएफसी लिमिटेड की पूर्ण स्वामित्व वाली सहायक कंपनी)

पंजीकृत कार्यालय : प्रथम तल, "ऊर्जानिधि", 1, बाराखम्बा लेन, कनॉट प्लेस, नई दिल्ली–110001, फैक्स : 011–23443990

वैश्विक आमंत्रण (केवल ई–निविदा के माध्यम से)

अन्तर–राज्यीय पारेषण परियोजना के लिए निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (BOOT) आधार पर ट्रांसमिशन सेवा प्रदाता के चयन हेतु

पीएफसी कंसल्टिंग लिमिटेड, पावर फाइनैंस कार्पोरेशन लिमिटेड (भारत सरकार का उपक्रम) की पूर्ण स्वामित्वाधीन सहायक कम्पनी एकल चरण दो लिफाफा प्रक्रिया वाले "प्रस्ताव हेतु अनुरोध" (आरएफपी) का पालन करते हुए निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (**BOOT**) आधार पर ट्रांसमिशन परियोजना की स्थापन के लिए प्रस्ताव आमंत्रित करता है।

इच्छुक बोलीदाता वेबसाइट **https://www.mstcecommerce.com** तथा **https://www.pfcclindia.com** पर उपलब्ध आरएफपी अधिसूचना तथा आरएफपी दस्तावेज देख सकते हैं।

निविदादाता अ–प्रतिदेय शुल्क रू. 5,00,000/– या यूएसडी (यूएस डॉलर) 7,000 + 18 प्रतिशत की दर से लागू जीएसटी का भुगतान करके आरएफपी दस्तावेज **05.05.2025 से निम्नलिखित परियोजना के लिए निविदा जमा करने से एक कार्यदिवस पूर्व तक** सभी कार्यदिवसों में 10:30 बजे (आईएसटी) से 16:00 बजे (आईएसटी) के बीच 9वां तल, विंग – ए, स्टेट्समैन हाउस, बाराखम्बा रोड़, कनॉट प्लेस, नई दिल्ली–110001, फोन : 91–11–23443996 ; ई–मेल : **pfccl.itp@pfcindia.com** से प्राप्त कर सकते हैं। आरएफपी दस्तावेज **https://www.mstcecommerce.com** तथा **https://www.pfcclindia.com** से भी डाउनलोड किए जा सकते हैं, यद्यपि, ऐसे मामले में, इच्छुक पार्टियों को आरएफपी के उत्तर के साथ अलग से अ–प्रतिदेय शुल्क रू. 5,00,000/– या यूएसडी (यूएस डॉलर) 7,000 + 18 प्रतिशत की दर से लागू जीएसटी को जमा करके आरएफपी के उत्तर जमा कर सकते हैं। आरएफपी दस्तावेज के लिए सर्वेक्षण रिपोर्ट एवं स्पष्टीकरण उन बोलीदाताओं को जारी किये जायेंगे जिन्होंने उपरोक्त परियोजना हेतु आरएफपी को निविदा को जमा करने की तिथि से कम से कम एक कार्यदिवस पूर्व आवश्यक शुल्क का भुगतान कर आरएफपी दस्तावेज प्राप्त/खरीदा था। स्पष्टीकरण/संशोधन/समय विस्तार, यदि होगा, आदि के संबंध में स्वंय को अद्यतन रखने के लिए निविदादाता नियमित रूप वेबसाइट देखते रहें। इस संबंध में महत्वपूर्ण तिथियां निम्नानुसार है:

क्र. सं.	सम्प्रेषण स्कीम का नाम	स्पष्टीकरण मांगने हेतु अंतिम तिथि (तिथि/माह/वर्ष)	आरएफपी का प्रत्युत्तर प्रस्तुत करने हेतु अंतिम तिथि (तिथि/माह/वर्ष)	आरएफपी का प्रत्युत्तर खोलने की तिथि (तिथि/माह/वर्ष)
1	कुर्नूल–IV आरईजेड के लिए पारेषण प्रणाली – चरण– II (3 गीगावाट)	26/05/2025	08/07/2025 को 15:00 बजे (आईएसटी) तक	08/07/2025 को 15:30 बजे (आईएसटी) तक

नोट : पीएफसी कंसल्टिंग लिमिटेड बिना कोई कारण बताए और बिना किसी दायित्व के निविदा प्रक्रिया को निरस्त या संशोधित करने का अधिकार रखता है। यह कोई प्रस्ताव नहीं है।

बोली प्रक्रिया समन्वयक

PFC CONSULTING LTD.

(पीएफसी लिमिटेड की पूर्णतः स्वामित्वाधीन सहायक कंपनी)

(भारत सरकार का उपक्रम)

पहल कर्ता

सत्यमेव जयते

विद्युत मंत्रालय

भारत सरकार

अग्रणी भागीदार

केंद्रीय विद्युत प्राधिकरण

Size_12cm X 14cm

PFC CONSULTING LTD.

पीएफसी कंसल्टिंग लिमिटेड
PFC CONSULTING LIMITED
(A wholly owned subsidiary of Power Finance Corporation Limited)

Ref.: 04/25-26/ITP-108/RFP

June 27, 2025

To,
Sh. Rakesh Goyal, Secretary,
Central Electricity Authority,
Sewa Bhawan, R.K. Puram,
New Delhi – 110066

Sub: Prior approval of the Govt. under Section 68(1) of the Electricity Act, 2003 for the Transmission Project – "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

Dear Sir,

1. Ministry of Power (MoP) vide its Gazette Notification no CG-DL-E-30032025-262168 dated March 27, 2025 has notified PFC Consulting Limited (PFCCL) to be the Bid Process Coordinator (BPC) for selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**" through tariff based competitive bidding process.

2. The bid process was initiated by issuing Single Stage Request for Proposal (RFP) documents on May 05, 2025. The submission of RFP bids was originally scheduled on July 08, 2025, which has been extended till July 24, 2025.

3. It may be noted that as per Clause No. 1.6.2.1 (2) of Standard RFP documents, BPC i.e. PFC Consulting Limited has to obtain approval for laying of overhead transmission lines under Section 68(1) of the Electricity Act, 2003 from appropriate Government for the subject transmission scheme.

4. In view of the above, it is requested that approval for laying of overhead transmission lines under Section 68(1) of the Electricity Act, 2003 may kindly be granted by the Ministry of Power, Government of India in respect of the subject transmission project in favour of "**KURNOOL IV REZ POWER TRANSMISSION LIMITED**" the SPV (which shall own the transmission scheme project and the transmission license shall also be issued in its favour) as per the details given below:

S. No.	Description of the Transmission Element
1.	LILO of Kurnool-IV – Bidar 765kV D/c line at Shadnagar
2.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/c line [TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame]
3.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c line

5. Further, the application and all the necessary documents are also being submitted on the National Single Window System (NSWS) portal.

Thanking you,

Yours Sincerely,

(Rishab Jain)
Director

पंजीकृत कार्यालय : प्रथम तल, 'उर्जानिधि', 1 बाराखम्बा लेन, कनॉट प्लेस, नई दिल्ली–110001
Regd. Office : First Floor, "Urjanidhi", 1, Barakhamba Lane, Connaught Place, New Delhi-110001
कंपनी मुख्यालय : नौवाँ तल (ए विंग), स्टेट्समैन हाउस, कनॉट प्लेस, नई दिल्ली-110001 दूरभाष : 011-23443900 फैक्स : 011-23443990
Corporate Office : 9th Floor (A Wing), Statesman House, Connaught Place, New Delhi - 110001 Phone : 011 - 23443900 Fax : 011 - 23443990
वेबसाइट / Website : www.pfcclindia.com CIN : U74140DL2008GOI175858

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PFC CONSULTING LTD.

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लिमिटेड की पूर्ण स्वामित्वाधीन सहायक कंपनी)
PFC CONSULTING LIMITED
(A wholly owned subsidiary of Power Finance Corporation Limited)

Ref. No.: 04/25-26/ITP-108/RFP **June 26, 2025**

To,
Mr. Anchit Narula **E-mail:** resonia.bd@resonia.com
Resonia Limited
DLF Cyber Park, 9th Floor, Block B
Sector 20, Udyog Vihar, Phase 3,
Gurugram – 122001

Subject: Independent Transmission Project "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" – Regarding Estimated Acquisition Price

Dear Sir,

In line with the requirement of the RFP document specified in Clause 1.6.2.1 (5), the following may be noted with respect to the Acquisition Price:

"The estimated Acquisition Price payable by the selected Bidder to the PFC Consulting Limited for the acquisition of one hundred percent (100%) of the equity shareholding of "**KURNOOL IV REZ POWER TRANSMISSION LIMITED**", along with all its related assets and liabilities is **Rs.19,04,79,614/-** (Rupees Nineteen Crore Four Lakh Seventy Nine Thousand Six Hundred Fourteen Only)."

This is for your information and further action, please.

Thanking you,

Yours faithfully

(Naveen Phougat)
General Manager

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No. 25-17/70/2025-PG
Government of India
Ministry of Power
***

Shram Shakti Bhawan, Rafi Marg
New Delhi, dated 14th July, 2025

To,

Shri Rishabh Jain, Director,
M/s KURNOOL IV REZ POWER TRANSMISSION LIMITED,
9th Floor (A-Wing), Statesman House,
Connaught Place, New Delhi – 110001.
Email: rishabjain@pfcindia.com

Subject: Prior approval of the Government of India under Section 68 (1) of the Electricity Act, 2003, for installation of overhead transmission lines under the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" to M/s KURNOOL IV REZ POWER TRANSMISSION LIMITED, a wholly owned subsidiary of PFC Consulting Limited (PFCCL) – regarding

Sir,

I am directed to refer to M/s PFCCL's online application on NSWS portal dated 27.06.2025, seeking prior approval of Government of India under Section 68 (1) of the Electricity Act 2003, for installation of the following overhead transmission lines under the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)", in favour of 'KURNOOL IV REZ POWER TRANSMISSION LIMITED', a wholly owned subsidiary of PFCCL, who shall own the transmission scheme project:

- LILO of Kurnool-IV – Bidar 765 kV D/c line at Shadnagar
- Shadnagar – Shadnagar (TGTRANSCO) 400 kV D/c line
- Shadnagar – Kethiredipally (TGTRANSCO) 400 kV D/c line

2. Ministry of Power vide Gazette no. CG-DL-E-30032025-262168 dated 27.03.2025 has appointed PFC Consulting Limited (PFCCL) as the Bid Process Coordinator for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" to be implemented through Tariff Based Competitive Bidding (TBCB) route. PFCCL, the Bid Process Coordinator, has incorporated the SPV, 'KURNOOL IV REZ POWER TRANSMISSION LIMITED', for implementation of the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

3. Based on the recommendation of Central Electricity Authority (CEA); Ministry of Power, Government of India conveys the prior approval under Section 68 (1) of the Electricity Act, 2003 to the SPV, 'KURNOOL IV REZ POWER TRANSMISSION LIMITED' for installation of the following overhead transmission lines under the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)":

- LILO of Kurnool-IV – Bidar 765 kV D/c line at Shadnagar (~ 50 km)
- Shadnagar – Shadnagar (TGTRANSCO) 400 kV D/c line (~ 50 km)
- Shadnagar – Kethiredipally (TGTRANSCO) 400 kV D/c line (~ 60 km)

Contd/...

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4. The approval would be subject to compliance of:

(i) The relevant provisions of the Electricity Act, 2003, as amended from time to time and the rules and regulations made there under, and

(ii) CEA (Measures relating to Safety and Electric Supply) Regulations, 2023, and any subsequent amendments made thereto.

5. The approval would also be subject to the following conditions:

(i) The implementing agency will commence construction of the project within three years of grant of approval, unless this term is extended by Ministry of Power.

(ii) Ministry of Power may withdraw the approval before the expiry of the period of three years after giving a one-month notice.

(iii) The implementing agencies shall abide by the provisions of Works of Licensees Rules, 2006 notified by the Govt. of India, Ministry of Power in the Gazette of India, extra-ordinary Part-II, Section 3(i) dated 18-04-2006 (vide GSR 217 (E) dated 18-04-2006).

Yours faithfully,

M V N Vara Prasad

(M.V.N. Vara Prasad)
Under Secretary to the Government of India
Tele: 011-23730264

Copy to:

The Chairperson,
Central Electricity Authority,
Sewa Bhawan, R.K. Puram, New Delhi 110066.

***

PFC CONSULTING LTD.
पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लिमिटेड की पूर्णतःस्वामित्वाधीन सहायक कम्पनी)
PFC CONSULTING LIMITED
(A wholly owned subsidiary of Power Finance Corporation Limited)
CIN U74140DL2008GOI175858

Ref. No.: 04/25-26/ITP-108/RFP **January 30, 2026**

To,
Mr. Anchit Narula **E-mail:** resonia.bd@resonia.com
Resonia Limited
DLF Cyber Park, 9th Floor, Block B
Sector 20, Udyog Vihar, Phase 3,
Gurugram – 122001

Subject: Independent Transmission Project "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" – Regarding Estimated Acquisition Price

Dear Sir,

In line with the requirement of the RFP document specified in Clause 1.6.2.1 (5), the following may be noted with respect to the Acquisition Price:

The estimated Acquisition Price payable by the selected Bidder to the PFC Consulting Limited for the acquisition of one hundred percent (100%) of the equity shareholding of "**KURNOOL IV REZ POWER TRANSMISSION LIMITED**", along with all its related assets and liabilities is **Rs.20,93,72,682/-** (Rupees Twenty Crore Ninety Three Lakh Seventy Two Thousand Six Hundred Eighty Two Only).

This is for your information and further action, please.

Thanking you,

Yours faithfully

(Naveen Phougat)
General Manager

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PFC Consulting Limited
(A wholly owned subsidiary of PFC Ltd.)

March 16, 2026

Sub: Qualification Status of RFP (Technical) Bids and opening of Initial Offer for establishment of Transmission Scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

With reference to issuance of RFP documents by PFC Consulting Limited (the Bid Process Coordinator), on May 05, 2025 for selection of Bidder as Transmission Service Provider (TSP) to establish "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**" and opening of RFP Bids on March 10, 2026, the following Bidders have been declared as Qualified Bidders for opening of Initial Offer:

1. Adani Energy Solutions Limited
2. H.G. Infra Engineering Limited
3. Power Grid Corporation of India Limited
4. Resonia Limited
5. Terralight Solar Energy Tinwari Private Limited

PFC Consulting Limited

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(पावर फाइनेंस कॉर्पोरेशन लिमिटेड की पूर्णतःस्वामित्वाधीन सहायक कंपनी)
PFC CONSULTING LIMITED
(A wholly owned subsidiary of Power Finance Corporation Limited)

Ref. No. 04/25-26/ITP-108/RFP **March 30, 2026**

To
Mr. Mahendra Sahu **E-mail:** resonia.bd@resonia.com
Resonia Limited
RMZ Infinity, 5th Floor, Plot No. 15, Phase-IV,
Udyog Vihar, Sector-18, Gurugram – 122008

Sub.: Inter-State Transmission Scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"- Letter of Intent

Dear Sir,

We refer to:

1. The Request for Proposal document dated May 05, 2025 issued to '**Resonia Limited**' as regards participation in the international competitive bidding process for Transmission Scheme for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**", and as amended till the bid deadline including all correspondence/ clarifications / amendments exchanged between '**Resonia Limited**' and PFC Consulting Limited in regard thereto (hereinafter collectively referred to as the "**Final RFP**");
2. The offer of '**Resonia Limited**' by way of a Technical Bid pursuant to (1) above submitted on **March 10, 2026** in response to the Final RFP.
3. The offer of '**Resonia Limited** by way of Financial Bid-Initial Offer submitted on **March 10, 2026** in response to the Final RFP.
4. The offer of '**Resonia Limited**' by way of a Financial Bid-Final Offer Submitted during e-Reverse Auction process concluded on **March 19, 2026** in response to the Final RFP.
5. The Technical Bid as at S. No. (2) above and the Financial Bid as at S. No. (3) & (4) above, hereinafter collectively referred to as the "Bid".

This is to inform you that the process of evaluating bids received pursuant to the Final RFP, including the Bid, has been concluded. We are pleased to inform you that your proposal and offer received by way of the "Bid" has been accepted and '**Resonia Limited**' is hereby declared as the Successful Bidder as per Clause 3.6.1 of the Final RFP for the above project and consequently, this Letter of Intent (hereinafter referred to as the "LoI") is being issued.

This LoI is based on the Final RFP and you are requested to please comply with the following:

a) Acknowledging its issuance and unconditionally accepting its contents and recording "Accepted unconditionally" under the signature of your authorized signatory on each page of the duplicate copy of this letter attached herewith and returning the same to PFC Consulting Limited within seven (07) days of the date of issuance of LoI. This LoI is issued to you in duplicate.

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b) Completion of various activities as stipulated in the Final RFP including in particular Clause 2.15.2, Clause 2.15.3 and Clause 2.15.4 of the Final RFP, within the timelines as prescribed therein.

It may be noted that PFC Consulting Limited has the rights available to them under the Final RFP, including rights under Clause 2.15.5 and Clause 3.6.3 thereof, upon your failure to comply with the aforementioned conditions.

As you are aware, the issuance and contents of this LoI are based on the Bid submitted by you as per the Final RFP including the Transmission charges and other details regarding the Scheduled COD as contained therein. The Quoted Transmission Charges as submitted by you and the Scheduled COD of each transmission element and the Project as agreed by you in your Bid, as per Annexure 21 and Format-1 of Annexure 8 respectively of the Final RFP is annexed herewith as **Schedule-A** and incorporated herein by way of reference.

Yours sincerely,
For PFC Consulting Limited

(Naveen Kumar)
General Manager

Enclosures:

- **Schedule A** – Quoted Transmission Charges and the Scheduled COD of each Transmission Element and the Project submitted in your Bid, as per Annexure 21 and Format-1 of Annexure 8 respectively of the Final RFP

Copy to:

1. **Chairman and Managing Director, Power Finance Corporation Limited,** "Urjanidhi", 1, Barakhamba Lane, Connaught Lane, New Delhi – 110 001

2. **Director (Transmission), Ministry of Power,** Shram Shakti Bhawan, Rafi Marg, New Delhi-110001

3. **Chief Engineer (PSPA-I) and Member Secretary (NCT), Central Electricity Authority,** 3rd Floor, Sewa Bhawan, R.K. Puram, New Delhi – 110066

4. **Chief Operating Officer (COO), Central Transmission Utility of India Limited (CTUIL),** 5th-10th Floor, Ircon International Tower-1, Sector-32, Gurugram-122001

5. **Secretary, Central Electricity Regulatory Commission,** 6th, 7th & 8th Floors, World Trade Center, Tower-B, Nauroji Nagar, New Delhi – 110029

SCHEDULE - A

(Page 1 of 2)

1. **Quoted Transmission Charges as per Annexure-21-Format For Financial Bid**

Quoted Transmission Charges: Rs.3,051.95 Million Per Annum

SCHEDULE-A
(Page 2 of 2)

2. **Scheduled COD of each Transmission Element and the Project as per Format 1 of Annexure-8 of RFP**

S. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs	24 months	8.57	Kumool-IV Phase-I Transmission System and Element at Sl. No. 2 & 3
2.	220 kV line bays at Kumool-IV PS for termination of dedicated transmission lines of RE generation projects			Kumool-IV Phase-I Transmission System and Element at Sl. No. 1 & 3
3.	400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 1 & 2
4.	Augmentation of Kurnool-IV PS by 765/400 kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs	36 months	91.43	Kumool-IV Phase-I Transmission System and Element at Sl. No. 5-10
5.	220 kV line bays at Kumool-IV PS for termination of dedicated transmission lines of RE generation projects			Kumool-IV Phase-I Transmission System and Element at Sl. No. 4 & 6-10
6.	400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4,5 & 7-10
7.	Establishment of 4x1500 MVA, 765/400 kV Doma Station with 2x330 MVAr (765 kV) bus reactors with space provision for			Kumool-IV Phase-I Transmission System and Element at Sl. No. 4,5,6 & 8-10

S. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
	establishment of 220 kV switchyard			
8.	LILO of Kurnool-IV – Bidar 765 kV D/C line at Doma (about **20 kms**)			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-7, 9 & 10
9.	Doma – Shadnagar GIS S/s (TGTRANSCO) 400 kV **Twin HTLS** D/C line (about **40 kms**) {TGTRANSCO to upgrade Shadnagar GIS (TGTRANSCO) S/s to 400 kV in matching time frame}			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-8 & 10
10.	Doma – Kethiredipally (TGTRANSCO) 400 kV **Twin HTLS** D/C line (about **50 kms**)			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-9

Scheduled COD for the Project: As above

CEA-PS-11-16(13)/1/2024-PSPA-I Division I/51196/2025

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन - I प्रभाग
Power System Planning & Appraisal - I Division

सेवा में /To,

Shri Naveen Phougat,
General Manager, PFCCL,
1st Floor, URJANIDHI, 1,
Barakhamba Lane, Connaught Place,
New Delhi - 110001

विषय/Subject: **Constitution of the Bid Evaluation Committees (BEC) for the transmission scheme – being implemented through TBCB -reg.**

संदर्भ / **References:**

(i) Gazette of India (Extraordinary) notification dated 27.03.2025.
(ii) M/s PFCCL letter dated 21.03.2025

महोदय/ Sir,

Ministry of Power vide Gazette notification under reference (i) has notified the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" for implementation through tariff based competitive bidding (TBCB) with M/s PFCCL as the Bid Process Coordinator (BPC)

M/s PFCCL vide its letter under reference (ii) has requested CEA to constitute the Bid Evaluation Committee (BEC) for the above mentioned transmission scheme. Accordingly, CEA has sought nominations from SRPC for constitution of BEC.

Based on the nominations received from SRPC and the revised nomination received from SBI, the Bid Evaluation Committee (BEC) for evaluation of bids of the above mentioned transmission scheme is hereby constituted and is given below:

Shubham Arya
Digitally signed by: Shubham Arya
DN: CN = Shubham Arya C = IN O = Personal
Date: 2026.06.04 14:43:17 +05'30'

CEA-PS-11-16(13)/1/2024-PSPA-I Division

I/51196/2025

S. No.	Name	Designation
1.	Sh. Amit Jog, General Manager, State Bank of India, Commercial Clients Group Regional Office -II, New Delhi	Chairman
2.	Sh. Narasappa Reddy Rama Chandra Reddy, Chief Engineer (Planning), Power System, APTRANSCO	Member
3.	Smt. S. Bojjamma, Chief Engineer, Construction, TGTRANSCO	Member
4.	Sh. Ganeswara Rao Jada, Director, PSPA-I Division, CEA	Member
5.	Sh. Bhanwar Singh Meena, Director, PSETD Division, CEA	Member
6.	Chairman of SPV constituted by PFCCL	Convener -Member

It may be mentioned that the Bid Evaluation Committee for the above mentioned transmission schemes have been constituted in line with Clause 9.8 of the Tariff based Competitive Bidding Guidelines for Transmission Service issued on 10.08.2021.

This issues with the approval of Member (Power Systems), CEA.

भवदीय / Yours faithfully,
Signed by Pawan Kumar Gupta
Date: 09-07-2025 12:39:21

(पवन कुमार गुप्ता / Pawan Kumar Gupta)
उप निदेशक / Dy. Director

Date: March 30, 2026

CERTIFICATE BY THE BID EVALUATION COMMITTEE

Sub.: **Selection of Successful Bidder as Transmission Service Provider to establish "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".**

It is hereby certified that:

1. The entire bid process has been carried out in accordance with the "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging competition in development of the Transmission Projects" issued by Ministry of Power, Govt. of India under Section 63 of the Electricity Act, 2003 and as amended from time to time.

2. **'Resonia Limited'** emerged as the Successful Bidder after the conclusion of e-reverse bidding process with the lowest Quoted Transmission Charges of **Rs.3,051.95 million per annum.**

3. The quoted tariff is lower than the Levelised Tariff calculated based on CERC norms considering the Capital Cost for the Project **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** as assessed by Cost Committee. The quoted tariff discovered through e-reverse bidding process is acceptable.

Name of Committee Member	Signature
Sh. Amit Jog, General Manager, State Bank of India, Commercial Clients Group Regional Office-II, New Delhi - **Chairman**	
Sh. T Sudeevan Kumar, Chief Engineer (Projects), APTRANSCO - **Member**	
Smt. S. Bojjamma, Chief Engineer, Construction, TGTRANSCO - **Member**	
Sh. Ganeswara Rao Jada, Director, PSPA-I Division, CEA - **Member**	
Sh. Bhanwar Singh Meena, Director, PSPA-I Division, CEA - **Member**	
Sh. Neeraj Singh, Chairman, Kurnool IV REZ Power Transmission Limited, New Delhi - **Convener Member**	

PFC CONSULTING LTD.

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लिमिटेड की पूर्णतःस्वामित्वाधीन सहायक कंपनी)
PFC CONSULTING LIMITED
(A wholly owned subsidiary of Power Finance Corporation Limited)

Ref. No. 04/25-26/ITP-108/RFP **April 08, 2026**

To,
Mr. Mahendra Sahu **E-mail: resonia.bd@resonia.com**
Resonia Limited
RMZ Infinity, 5th Floor, Plot No. 15, Phase-IV,
Udyog Vihar, Sector-18, Gurugram – 122008

Sub.: Inter-State Transmission Scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"- Regarding submission of CPG and Due Diligence for transfer of SPV.

Dear Sir,

In line with the provisions of Clause 2.15.2 (a), (b) & (c) of the RFP Document, Contract Performance Guarantee in favour of Nodal Agency i.e. Central Transmission Utility of India Limited (CTUIL) has to be provided, the Share Purchase Agreement has to be executed and the SPV namely, **'Kurnool IV REZ Power Transmission Limited'** has to be acquired by the selected bidder i.e., **'Resonia Limited'** along with all its related assets and liabilities for an Acquisition Price.

It may be noted that the SPV is tentatively scheduled to be transferred in April, 2026. You are therefore requested to arrange for due diligence process accordingly.

It is intimated that the Acquisition Price of the SPV **'Kurnool IV REZ Power Transmission Limited'** is **Rs.20,93,72,682/- (Rupees Twenty Crore Ninety Three Lakh Seventy Two Thousand Six Hundred Eighty Two Only)**. The break-up for this amount is given below:

S.No.	Description	Amount (in INR)
1.	PFCCL Management Fees	15,00,00,000
2.	Goods and Service Tax on PFCCL Management Fees	2,70,00,000
3.	Other Administrative Expenses	3,22,72,682
4.	Share Capital	1,00,000
	Total	**20,93,72,682**

The payment of the Acquisition Price may be made as detailed hereunder:

Name	: **PFC Consulting Limited**
PFCCL Goods and Service Tax No.	: 07AAECP6182F1ZC
PFCCL PAN No.	: AAECP6182F
Mode of Payment	: RTGS

Shubham Arya
Digitally signed by: Shubham Arya
DN: CN = Shubham Arya C = IN O = Personal
Date: 2026.06.04 14:44:32 + 05'30'

Bank Details:

Bank Name	**ICICI Bank, 9A, Phelps Building, Connaught Place, New Delhi**
Name of Account	PFC CONSULTING LIMITED
A/C No.	000705036117
IFSC Code	ICIC0000007

It is requested that TDS may be deducted against the above payment as per I.T. rules. Copy of PAN Card and Cheque of the above bank are enclosed herewith.

You are requested to make the above payment as per the details provided above through RTGS at the earliest.

You are requested to provide the Contract Performance Guarantee as per the details provided in RFP documents, at the earliest.

Further, it is requested to provide the Contract Performance Guarantee (CPG) in favour of Nodal Agency i.e. Central Transmission Utility of India Limited (CTUIL) as per the details provided at **Annexure –A** at the earliest.

With kind regards,

Yours sincerely,

(Nirmala Meena)
DGM

Annexure –A

Contract Performance Guarantee (CPG)

Transmission System for Kurnool-IV REZ - Phase-II (3 GW)

S No.	Name of Nodal Agency	Address	Amount of CPG
1	Central Transmission Utility of India Limited	5th to 10th Floor, Ircon International Tower-1, Sector-32, Gurugram-122001	Rs.88.00 Crore (Rupees Eighty Eight Crore Only)

सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

Certificate No.	:	IN-DL74650722406907Y
Certificate Issued Date	:	18-Mar-2025 11:51 AM
Account Reference	:	IMPACC (IV)/ dl736003/ DELHI/ DL-WSD
Unique Doc. Reference	:	SUBIN-DLDL73600368447598288744Y
Purchased by	:	ZUNO GENERAL INSURANCE LTD
Description of Document	:	Article 57 Security Bond
Property Description	:	STAMP PAPER FOR AGREEMENTS
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	ZUNO GENERAL INSURANCE LTD
Second Party	:	AS PER AGREEMENT WITH ZUNO GENERAL INSURANCE LTD
Stamp Duty Paid By	:	ZUNO GENERAL INSURANCE LTD
Stamp Duty Amount(Rs.)	:	500 (Five Hundred only)

Please write or type below this line

Received original ISB
Avinash Kumar
29/05/2026

This stamp paper forms Integral part of attached documents of Bond no. PER/2026/MH0211 and Bond Value of Rs. 88,00,00,000/-

Zuno General Insurance Limited

Statutory Alert:
1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

Shubham Arya

Digitally signed by Shubham Arya
DN: CN=Shubham Arya C=IN O=Personal
Date: 2026.06.04 14:44:53 +05'30'

18-Mar-2026 11:51 AM 18-Mar-2026 11:51 AM 18-Mar-2026 11:51 AM

FORMAT FOR SURETY INSURANCE CONTRACT

Surety Bond no. – PER/2026/MH0211
LOI No. - 04/25-26/ITP-108/RFP

Bond Start Date: 29-05 -2026
Bond End date: 31-08-2030

In consideration of the **M/s Resonia Limited with its registered office at RMZ Infinity 5th Floor, Plot No 15, Phase IV, Sector 18, Udyog Vihar Gurugram, Haryana-122015,India,** (hereinafter referred to as the **'Principal Debtor'** for the purposes of this Surety Insurance Contract as provided in Section 126 of the Indian Contract Act, 1872) having been selected to undertake the Transmission Project on the terms and conditions contained in the Transmission Service Agreement **dated 29th May 2026**/to be executed as per the Model Transmission Service Agreement provided along with the Request for Proposal **('RFP')** and other RFP Project Documents, subject to the condition of providing a Performance Bank Guarantee or a **Surety Insurance Contract** guaranteeing/insuring the due performance of the obligations under the Transmission Service Agreement, to the **Central Transmission Utility of India Limited ('CTUIL')** [herein after referred to as the Nodal Agency], the **Zuno General Insurance Limited,** baving its Head Office at **2nd Floor, Tower 3, B Wing, Kohinoor City Mall, Kohinoor City, Kirol Road, Kurla (W), Mumbai 4000705** having its branch office address at **Flat No 701,703,705,707 & 709 Antariksh Bhavan 22 KG Marg New Delhi 110001** (hereinafter referred to as **"Surety")** hereby agrees unequivocally, irrevocably, absolutely and unconditionally, without demur, to pay to the Nodal Agency at **Central Transmission Utility of India Limited, 5th to 10th Floor, Ircon International Tower-1, Sector 32, Gurugram, Haryana - 122001** forthwith on demand in writing from the Nodal Agency, or any Officer authorized by it in this behalf, intimated to the Surety at the address mentioned above, any amount as may be decided by the Nodal Agency not exceeding **Rs. 88,00,00,000/- (Rupees Eighty Eight Crore only).**

The Surety hereby acknowlcdges, accepts and confirms that the Surety has received from the Principal Debtor, by way of premium thc entirc consideration for the Surety to execute, in favour of the Nodal Agency, this Surety Insurance Contract, as extended by the Surety from time to time and assuming the obligation to pay to the Nodal Agency the amount in terms hereof, without any requirement for payment of any other consideration to the Surety by the Principal Debtor, or otherwise.

This Surety Insurance Contract shall be valid and binding on the Surety, as the principal obligation of the Surety to pay on demand by the Nodal Agency, and shall not be terminable by notice or any change in the constitution of the Surety or the term of the Transmission Service Agreement or by any other reasons whatsoever and the liability hereunder of the Surety shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed (with or without the knowledge or consent of the Surety) by or between the Principal Debtor and the Nodal Agency.

The liability of the Surety under this Surety Insurance Contract is restricted to **Rs. 88,00,00,000/- (Rupees Eighty Eight Crore only).** The Surety Insurance Contract shall remain in force until **31st August, 2029**. The Nodal Agency shall be entitled to invoke this Surety Insurance Contract up to three hundred sixty five (365) days after the last date of the validity of this Surety Insurance Contract.

The Surety hereby expressly agrees that it shall not require any proof except for the written demand from the Nodal Agency, containing the statement that the contractor has failed to meet its contractual obligations raised at the above mentioned address of the Surety (address of Surety office should be a place in NCR only) and the Surety shall pay the amount without reference to the Principal Debtor.

Zuno General Insurance Limited

Any such demand made by the Nodal Agency on the Surety shall be conclusive and binding not withstanding any difference between the Nodal Agency and the Principal Debtor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Surety undertakes not to revoke this guarantee during its currency without previous consent of the Nodal Agency and further agrees that the Surety Insurance Contract herein contained shall continue to be enforceable till the Nodal Agency discharges this contract or till the expiry of tenor (including Claim period) whichever is earlier.

The Surety shall make payment hereunder within two (02) working days on first demand without restriction or conditions and notwithstanding any objection by the Principal Debtor, namely, **M/s Kurnool IV REZ Power Transmission Limited**, or **M/s Resonia Limited**, and/or any other person. The Surety shall not require the Nodal Agency to justify the invocation of this Surety Insurance Contract, nor shall the Surety have any recourse against the Nodal Agency in respect of any payment made hereunder.

This SURETY INSURANCE CONTRACT shall be interpreted in accordance with the laws of India.

This SURETY INSURANCE CONTRACT is being executed by the Surety in terms of the IRDAI (Surety Insurance Contract) Guidelines, 2022 and the Surety hereby acknowledges, accepts and confirms that this Surety Insurance Contract shall be a Contract of Guarantee as provided under Section 126 of the Indian Contract Act, 1872 and further shall be covered by Section 14(3)(b) of the Insolvency and Bankruptcy Code, 2016 (as amended) shall be enforceable as such.

The Surety represents that this Surety Insurance Contract has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Surety in the manner provided herein.

This SURETY INSURANCE CONTRACT shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Surety.

In order to give effect to this surety Bond, the Nodal Agency shall be entitled to act as if the surety insurer were the principal debtor and any change in the constitution of the contractor and/or the surety insurer, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the surety insurer under this surety Bond.

This SURETY INSURANCE CONTRACT shall be a primary obligation of the Surety as a Principal to pay on demand by the Nodal Agency and the Nodal Agency shall not be obliged before enforcing this Surety Insurance Contract to take any action in any court or arbitral proceedings against the Principal Debtor, namely, **M/s Kurnool IV REZ Power Transmission Limited**, or **M/s Resonia Limited**, and/or any other person, as the case may be, to make any claim against or any demand on the Principal Debtor, namely, **M/s Kurnool IV REZ Power Transmission Limited**, or **M/s Resonia Limited**, and/or any other person, as the case may be, or to give any notice to Principal Debtor, namely **M/s Kurnool IV REZ Power Transmission Limited**, or **M/s Resonia Limited**, and/or any other person, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against the Principal Debtor, namely, **M/s Kurnool IV REZ Power Transmission Limited**, or **M/s Resonia Limited**, and/or any other person, as the case may be.

The Surety acknowledges that this Surety Insurance Contract is not personal to the Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under

Zuno General Insurance Limited

the Transmission Service Agreement Provided that any such assignment shall be in compliance with the relevant provisions of the Insurance Act 1938.

The Surety hereby agrees and acknowledges that the Nodal Agency shall have a right to invoke this Surety Insurance Contract either in part or in full, as it may deem fit. In case of invocation of this Surety Insurance Contract in part, besides making payment for the part of Surety Insurance Contract invoked, surety at the request of nodal agency shall amend the value of Surety Insurance Contract to the extent of balance amount.

The Surety undertakes not to revoke this Surety Contract during its currency, except with the previous express consent of the Nodal Agency in writing and declares and warrants that it has the power to issue this Surety Contract and the undersigned has full powers to do so on behalf of the Surety

In witness where of:

Signature.

Name: Shivani

Signature:
Name: Neeraj Ahuja

Designation: Deputy Zonal Operations Manager
Power of Attorney No/Employee Code: 36737
For
Zuno General Insurance Limited
Flat No 701,703,705,707 & 709 Antariksh Bhavan
22 KG Marg New Delhi 110001
Contact Details of the Insurance Company1800 12000
E-mail ID of the Insurance Company: bondconfirmation@hizuno.com

Zuno General Insurance Limited is registered with IRDAI License No. 159

ICICI Bank Advice Receipt
5/29/26 4:36 PM

Transaction Details

Account number:	**XXXXXXXX0893**
Transaction Date:	**29/05/2026**
Transaction Amount:	**INR 19,11,45,414.00**
Debit/Credit:	**Debit**
Cheque Number :	**-NIL-**
Transaction Description :	**TRFR TO:PFC CONSULTING LTD**
Transaction ID:	**M3450792**
Transaction Remarks :	**-**

Note: This is an electronically generated receipt and does not need any signature.

PFC CONSULTING LTD.

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लिमिटेड की पूर्णतःस्वामित्वाधीन सहायक कंपनी)
PFC CONSULTING LIMITED
(A wholly owned subsidiary of Power Finance Corporation Limited)

Ref. 04/26-27/ITP-108/RFP

27.05.2026

To
Mr. Mahendra Sahu
Resonia Limited
RMZ Infinity, 5th Floor, Plot No. 15, Phase-IV,
Udyog Vihar, Sector-18, Gurugram – 122008.

E-mail: resonia.bd@resonia.com

Sub: Inter-State Transmission Scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"– Regarding extension of LoI.

Dear Sir,

This is with reference to Letter of Intent (LoI) issued on 30.03.2026 for establishment of subject transmission scheme. The Clause No. 2.15.2 of the RFP document stipulates that within ten (10) days of the issue of the LoI the selected bidder shall complete all the activities including the acquisition of SPV.

As the SPV is being transferred on 29.05.2026, the last date for completion of various activities under Clause No. 2.15.2 of the RFP document is extended from 15.04.2026 (10 days from LoI) to 29.05.2026.

Thanking you,

Yours faithfully,

(Naveen Phougat)
General Manager

PFC CONSULTING LTD.

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लिमिटेड की पूर्णतःस्वामित्वाधीन सहायक कंपनी)
PFC CONSULTING LIMITED
(A wholly owned subsidiary of Power Finance Corporation Limited)

Ref. No. 04/25-26/ITP-108/RFP

May 29, 2026

To,
Mr. Mahendra Sahu
Resonia Limited
RMZ Infinity, 5th Floor, Plot No. 15, Phase-IV,
Udyog Vihar, Sector-18, Gurugram – 122008

E-mail: resonia.bd@resonia.com

Subject: Independent Transmission Project for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW" – Regarding Transfer of SPV.

Dear Sir,

As requested, the following documents/information is furnished herewith for further necessary action at your end:

1. Copy of Gazette Notification dated March 27, 2025 appointing PFC Consulting Limited to be the Bid Process Coordinator (BPC).
2. Copy of PFCCL letter No. 04/ITP-108/25-26/RFP dated May 08, 2025 to CERC in regard to intimation of initiation of the Bid Process for the subject transmission scheme along with copies of the advertisement in the Newspapers.
3. Copy of PFCCL letter No. 04/ITP-108/25-26/RFP dated May 08, 2025 to MoP for issuance of RFP documents and uploading RFP notice and RFP documents on the website of MoP.
4. Copy of letter no. 01A/ITP-108/25-26/RFP/Land Acquision dated June 10, 2025 to the Collector and District Magistrate, Integrated District Office Complexes, Kongara Kalan Village, Ibrahimpatnam Mandal, Ranga Reddy.
5. Copy of PFCCL letter no. 04/ 25-26/ITP-108/RFP dated June 27, 2025 to CEA regarding prior approval of the Govt. under section 68(1) of the Electricity Act, 2003.
6. Copy of CEA letter dated July 09, 2025 regarding constitution of Bid Evaluation Committee (BEC) for the transmission scheme.
7. Copy of letter no. 25-17/70/2025-PG dated July 14, 2025 from CEA regarding prior approval of the Govt. under section 68(1) of the Electricity Act, 2003.
8. Copy of mail of correspondences with CTUIL dated March 16, 2026 regarding signing of TSA.
9. Copy of certificate issued by Bid Evaluation Committee dated March 30, 2026.
10. Copy of letter from MoP dated May 04, 2026 for transfer of shares held by PFCCL in **"KURNOOL IV REZ POWER TRANSMISSION LIMITED"** to **Resonia Limited** (Successful Bidder). .

With kind regards,

Yours Sincerely,

(Naveen Phougat)
General Manager

Encl.: As above

List of Documents

S. No.	Description of Documents
1.	Copy of Gazette Notification dated March 27, 2025 appointing PFC Consulting Limited to be the Bid Process Coordinator (BPC).
2.	Copy of PFCCL letter No. 04/ITP-108/25-26/RFP dated May 08, 2025 to CERC in regard to intimation of initiation of the Bid Process for the subject transmission scheme along with copies of the advertisement in the Newspapers.
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9.	Copy of certificate issued by Bid Evaluation Committee dated March 30, 2026
10.	Copy of letter from MoP dated May 04, 2026 for transfer of shares held by PFCCL in "**KURNOOL IV REZ POWER TRANSMISSION LIMITED**" to **Resonia Limited** (Successful Bidder).

रजिस्ट्री सं. डी.एल.- 33004/99 REGD. No. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

सी.जी.-डी.एल.-अ.-30032025-262168
CG-DL-E-30032025-262168

असाधारण
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)
PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 1460] नई दिल्ली, बृहस्पतिवार, मार्च 27, 2025/चैत्र 6, 1947
No. 1460] NEW DELHI, THURSDAY, MARCH 27, 2025/CHAITRA 6, 1947

विद्युत मंत्रालय

अधिसूचना

नई दिल्ली, 27 मार्च, 2025

का.आ 1478(अ).—विद्युत अधिनियम, 2003 (2003 की सं. 36) की धारा 63 के अंतर्गत परिचालित दिशा-निर्देशों के पैरा 3 के उप-पैरा 3.2 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, केन्द्र सरकार, राष्ट्रीय पारेषण समिति की 28 वीं बैठक की सिफारिशों पर, संबंधित बोली-प्रक्रिया समन्वयक (बीपीसी) के ब्यौरे के साथ टीबीसीबी मोड के अंतर्गत निम्नलिखित पारेषण स्कीमों को अधिसूचित करती है: -

क्रम सं.	पारेषण स्कीम का नाम और कार्यक्षेत्र			
1.	**कुर्नूल-IV आरईजेड के लिए पारेषण प्रणाली - चरण-II (3 गीगावाट)** **कार्यान्वयन की संभावित समय-सीमा:** एसपीवी अंतरण की तिथि से 24 माह से 30 माह तक उत्तरोत्तर **बीपीसी: पीएफसी कंसल्टिंग लिमिटेड** **कार्यक्षेत्र:**			
	क्रम सं.	*पारेषण स्कीम का कार्यक्षेत्र*	*क्षमता/किमी*	*नियत समय*
	1.	400/220 केवी, 4x500 एमवीए आईसीटी द्वारा कुर्नूल-IV पीएस का संवर्धन	•400/220 केवी, 500 एमवीए, आईसीटी - 4 •400 केवी आईसीटी बे – 4 •400 केवी बस सेक्शनलाइजर: 1 सेट •220 केवी आईसीटी बे – 4	24 माह

		सर्किट के एलआईएलओ किए गए खंड का सीएन'हल्ली तक विस्तार करके हसन-सीएन'हल्ली 400 केवी डी/सी लाइन (25 किमी) बनाना।		

2. बोली प्रक्रिया समन्वयक की नियुक्ति विद्युत मंत्रालय द्वारा इस संबंध में जारी और समय-समय पर संशोधित दिशानिर्देशों में निर्धारित शर्तों के अध्यधीन होगी।

3. बीपीसी तकनीकी विकल्पों के माध्यम से रास्ते के अधिकार (आरओडब्ल्यू) की चौड़ाई में कमी की गणना के लिए सीईए की दिनांक 24.09.2024 की समिति की रिपोर्ट के अनुसार आरओडब्ल्यू अनुकूलन सुनिश्चित करेंगे।

4. इसके अलावा, पीएम गति शक्ति पोर्टल और भौतिक सर्वेक्षण पर सत्यापन के बाद ही मार्ग को अंतिम रूप दिया जाना चाहिए।

[फा. सं. 15/3/2018-ट्रांस-भाग(4)]

नाओरेम इंद्रकुमार सिंह, अवर सचिव (पारेषण)

MINISTRY OF POWER

NOTIFICATION

New Delhi, the 27th March, 2025

S.O. 1478(E).—In exercise of the powers conferred by sub-para 3.2 of Para 3 of the Guidelines circulated under Section 63 of the Electricity Act, 2003 (No. 36 of 2003), the Central Government, on the recommendations of 28th meeting of National Committee on Transmission, hereby notifies the following transmission schemes under TBCB mode, with details of respective Bid-Process Coordinator (BPC): -

<table>
<tr><th>Sl No.</th><th>Name & Scope of the Transmission Scheme</th></tr>
<tr><td>1.</td><td>Transmission System for Kurnool-IV REZ - Phase-II (3 GW)
Tentative implementation timeframe: Progressively from 24 months to 30 months from the date of SPV transfer
BPC: PFC Consulting Limited
Scope:
<table>
<tr><th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity/km</th><th>Schedule</th></tr>
<tr><td>1.</td><td>Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs</td><td>•400/220 kV, 500 MVA, ICTs – 4 nos.
•400 kV ICT bays – 4 nos.
•400 kV Bus Sectionalizer: 1 set
•220 kV ICT bays – 4 nos.
•220 kV Bus Sectionalizer: 1 set
•220 kV Bus Coupler (BC) Bay – 1 no.
•220 kV Transfer Bus Coupler (TBC) Bay – 1 no.</td><td>24 months</td></tr>
<tr><td>2.</td><td>220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects</td><td>•220 kV line bays – 5 nos.</td><td>24 months</td></tr>
<tr><td>3.</td><td>400 kV line bay at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects</td><td>•400 kV line bay – 1 no.</td><td>24 months</td></tr>
<tr><td>4.</td><td>Augmentation of Kurnool-IV PS by 765/400 kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs</td><td>•765/400 kV, 1500 MVA, ICTs – 2 nos.
•765 kV ICT bays – 2 nos.</td><td>30 months</td></tr>
</table></td></tr>
</table>

		•400 kV ICT bays – 2 nos. •400/220 kV, 500 MVA, ICTs – 6 nos. •400 kV ICT bays – 6 nos. •220 kV ICT bays – 6 nos. •220 kV Bus Sectionalizer: 1 set •220 kV Bus Coupler (BC) Bay – 1 no. •220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	
5.	220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	•220 kV line bays – 8 nos.	30 months
6.	400 kV line bay at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	•400 kV line bay – 1 no.	30 months
7.	Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard **Future Space Provisions:** 765/400 kV, 1500 MVA, ICTs – 2 nos. 765 kV ICT bays – 2 nos. 400 kV ICT bays – 2 nos. 765 kV line bays – 8 nos. (with provision for SLR) 400 kV line bays – 8 nos. (with provision for SLR) 400 kV Bus Sectionalizer: 1 set **Future Space Provisions for 220 kV switchyard:** 400/220 kV, 500 MVA, ICTs – 10 nos. 400 kV ICT bays – 10 nos. 220 kV ICT bays – 10 nos. 220 kV line bays – 16 nos. 220 kV Bus Sectionalizer: 3 set 220 kV Bus Coupler (BC) Bay – 4 nos. 220 kV Transfer Bus Coupler (TBC) Bay – 4 nos.	•765/400 kV, 1500 MVA, ICTs – 4 nos. (13x500 MVA incl. 1 spare unit) •765 kV ICT bay – 4 nos. •400 kV ICT bay – 4 nos. •765 kV line bays – 4 nos. (at Shadnagar for termination of LILO of Kurnool-IV – Bidar 765 kV D/c line) •765 kV, 330 MVAr Bus Reactors – 2 nos. (7x110 MVAr inc. 1 switchable spare unit) •765 kV Bus Reactor bays – 2 nos. •400 kV line bays – 4 nos. (at Shadnagar for termination of Shadnagar – Shadnagar (TGTRANSCO) and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c lines)	30 months
8.	LILO of Kurnool-IV – Bidar 765 kV D/c line at Shadnagar (about 50 km)	•~ 50 km	30 months
9.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/c line (about 50 km) {TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame}	•~ 50 km •400 kV line bays – 2 nos. (at Shadnagar (TGTRANSCO))	30 months
10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c	•~ 60 km	30 months

PFC CONSULTING LTD

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लि० की पूर्णत स्वामित्वाधीन सहायक कम्पनी)
PFC CONSULTING LIMITED
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No. 04/ITP-108/25-26/RFP

May 08, 2025

To,
Secretary,
Central Electricity Regulatory Commission,
6th, 7th & 8th Floors, World Trade Center,
Tower-B, Nauroji Nagar,
New Delhi – 110029

Subject: Intimation about initiation of the bid process for selection of Transmission Service Provider (TSP) for establishing transmission system for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" and issuance of RFP Document.

Dear Sir,

Ministry of Power vide Gazette Notification no. CG-DL-E-30032025-262168 dated March 27, 2025 has notified PFC Consulting Limited (PFCCL) as Bid Process Coordinator (BPC) to undertake the bid process for selection of Transmission Service Provider (TSP) for establishing **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** in accordance with the Guidelines namely "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging Competition in Development of Transmission Projects" issued by Ministry of Power.

The Request for Proposal (RFP) process has been initiated on May 05, 2025 with the publication of RFP notification in:

1. Indian Express (English) – All Edition
2. Jansatta (Hindi) – All Editions
3. Financial Times (Worldwide) – All Editions

The same has also been made available along with the RFP documents on PFCCL website 'www.pfcclindia.com' w.e.f. May 05, 2025. It may be noted that these RFP Documents are based on the Single Stage Two Envelope (RFQ & RFP combined) based Standard Bidding Documents (SBD) issued by Ministry of Power on August 06, 2021 and project specific inputs furnished by Central Transmission Utility of India Limited (CTUIL) and Central Electricity Authority (CEA). The last date for submission of Responses to RFP is July 08, 2025.

As per the requirements of the Guidelines (Clause 4.2 of Tariff based Competitive-bidding Guidelines for Transmission Service), we hereby intimate the Commission about initiation of the bid process for selection

of Transmission Service Provider (TSP) for establishing transmission system for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**" We are also enclosing herewith the RFP documents for your kind information, perusal and records please.

Thanking You,

Yours sincerely,

(Naveen Phougat)
General Manager

Encl.: As Above

driver-partners staged protests across Delhi-NCR on Sunday, demanding compensation and alternative employment, weeks after the electric ride-hailing company suddenly shut down its services. The drivers, left without work or clarity on next steps, are seeking support from the company.

BluSmart ceased operations in mid-April 2025 after an Sebi report barred its promoters from accessing capital markets and holding board positions. The action followed allegations of funds being siphoned off and forgery of documents related to Gensol Engineering — the solar EPC firm closely associated with BluSmart.

"We demand answers from BluSmart and accountability from government authorities and regulators. It's unacceptable that platform companies operate without oversight. We also want our dues," said Vijay Kumar, a driver participating in Sunday's protest.

Before shutting down, BluSmart had over 10,000 driver-partners working with the

Drivers say they have been logged out of the app and are unable to log back in

- Driver partners earned between ₹25 to ₹40 per hour and were guaranteed minimum daily earnings of ₹400
- BluSmart's financial structure was a lifeline for many which has now been lost

platform. Now, drivers say they've been logged out of the app and are unable to log back in. "We haven't been able to log in since Thursday. The OTP just doesn't come. It feels like they've completely abandoned us," said another driver.

BluSmart's financial structure had been a lifeline for many. Drivers earned between ₹25 to ₹40 per hour and were guaranteed minimum daily earnings of ₹400. Monthly

formers.

Gensol incurred debts to the tune of ₹1,146 crores. Compare to its reserves and equity of ₹589 crores. A debt-to-equity ratio was adverse The bigger problem. The company was struggling to pay back the huge debt that it had incurred. To top it up the firm was presenting the rating agencies that they had made timely repayment of its debts.

All of these put the credibility of the firm in to question.

Last year, the Sebi began its investigation against Gensol after the markets watchdog received a complaint relating to manipulation of share price and diversion of funds in the company. The markets regulator asked for information from credit rating agencies Icra and CARE Ratings who had downgraded Gensol as certain documents shared by Gensol on its debt servicing track record were apparently falsified.

The ratings agencies told Sebi that Gensol provided statements of all lenders except those of IREDA and PFC.

1003

effect till May 3 to ensure the safety of its [illegible] and staff. As per information available on flight tracking website Flightradar24.com, the flight was in the Jordanian airspace when it was decided to divert the flight to Abu Dhabi.

Air India's flight from Tel Av

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CESC Limited, CIN:
Regd. Office: CESC House, C

CES

NOTICE INVI

CESC Limited, a power utility in pr
RP-Sanjiv Goenka Group, invites Expr
Annual Rate Contract Basis.
Details available under Tender section of t

MERCANT

Mercantile

Regd. Office: 88, Mount Ro
Email: cs@mercantile

N

Notice is hereby given that the below
Limited standing in the name of M/s E
Ventures Ltd, have been reported lost
applied to the Company to issue duplica

Any person(s) who have claim in respe
the same to ABB India Ltd at Disha -
Industrial Area IV, Peenya, Bangalore,
days from the date of this notice, else th
certificate(s). to the aforesaid applicants

Folio No. E0012955 for 496 Sheres of

Certificate No.	No. of shares
14236	10
18515	16
28305	1
33328-331	40
56057	30
56502-503	20
60379	50
89051	50
104785-787	16
244724-244731	124
99508279	10
99518514	4
99518849	10
99528303-99528304	15
100401312	100

Folio No. E0017162 for 157 Shares

Certificate No.	No. of shares
3619	5
4104	7
6136	1
32886	50
35712	50
244769	10
244770 - 24776	29
901313	5

Place: Chennai
Date : 06.05.2025

PFC CONSULTING LIMITED

(A wholly owned subsidiary of PFC Limited)
Regd. Office: First Floor, "Urjanidhi", 1, Barakhamba Lane, Connaught Place, New Delhi – 110001, Fax: 011-23443990

GLOBAL INVITATION (THROUGH E-BIDDING ONLY)

FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTER-STATE TRANSMISSION PROJECTS

PFC Consulting Limited, a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of transmission projects on **Build, Own, Operate and Transfer (BOOT)** basis following single stage two envelope process of "Request for Proposal" (RFP).

Interested bidders may refer to the RFP notification and RFP documents available on the website **https://www.mstcecommerce.com** and **https://www.pfcclindia.com.**

The Bidders may obtain the RFP documents on all working days between 10:30 hrs (IST) and 16:00 hrs (IST) **from 05.05.2025 to ons working day prior to bid submission for the projects mentioned below** on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 9th Floor, Wing – A, Statesman House, Connaught Place, New Delhi - 110001, Tel.: 91-11-23443996; Fax: 91-11-23443990; e-mail: **pfccl.itp@pfcindia.com.** The RFP documents can also be downloaded from **https://www.mstcecommerce.com** and **https://www.pfcclindia.com**, however, in such case, interested party can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% separately. The survey report and clarification to RFP documents shall be issued to those bidders, who have obtained/ purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc., if any. The important timelines in this regard are as follows:

S. No.	Name of Transmission Scheme	Last Date for seeking clarifications (dd/mm/yyyy)	Last Date for submission of response to RFP (dd/mm/yyyy)	Date of opening of response to RFP (dd/mm/yyyy)
1.	Transmission System for Kurnool-IV REZ - Phase-ii (3 GW)	26/05/2025	08/07/2025 up to 15:00 hrs (IST)	08/07/2025 at 15:30 hrs (IST)

Note: PFC Consulting Limited reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Bid Process Coordinator
PFC CONSULTING LTD.
(A wholly owned subsidiary of PFC Ltd.)
(A Govt. of India Undertaking)

An initiative of
Ministry of Power
Government of India

Initiative Partner
Central Electricity Authority

smart was also very supp-
n that they took strict ac-
inst riders if any of us re-
a complaint. If we
d a car breakdown, they
ately sent their mechan-
d Shruti Rajput, 22, who
ked for the firm for more
ear.
il Hussain, 38, one of the
ers of the protest, who is
ed with the Parivahan
n (Athwale), said, "Our
mands are that the com-
ould provide severance
hree months, calculated
n weekly earnings of Rs
· that is a monthly pay of
Rs 30,000."
ct, the government should
a law that protects driv-
gig workers at large from
termination and allows
ib services to have a union
vers. The government
also acquire these cars and
these drivers in the coop-
axi serv[illegible] which was an-
ed by [illegible]ne Minister]
ah recently," Hussain said.
mne BluSmart ko achho
iya, kabhi ride cancel nahi
Kadtameezi nahi ki, hum
. Malik company ke saath
iya, toh humare pet kyun
ai (We were the ones who
luSmart's brand by never
ling rides, by not being
passengers. If the own-
e defrauded the company,
hy should we suffer)."
hok Kumar, 51, who had
orking for the company
tle over six months.

The NTA vowed stricter controls this year. "All preparations and logistical arrangements for organising a safe and secure examination have been made," it said in a statement on May 3.

Essential amenities were en- others wiped tears. But every single one remarked on the level of scrutiny they had undergone.

Teena Kundra, 17, a student of the School of Specialised Excellence in Dwarka Sector 10, described how her Aadhaar card

Back at the Dwarka Sector centre, Sheetal said this was her second attempt and perhaps her last. "I've wanted to be a doctor since Grade 9. I just hope everything I studied comes together today," she smiled.

Teacher booked, removed from duty for abusing 5-year-old with disability

EXPRESS NEWS SERVICE
NEW DELHI, MAY 4

A TEACHER at a private school in South Delhi allegedly subjected a five-year-old child with disability to abuse in front of other students, police said.

Police booked the teacher on Saturday after a complaint was lodged by the school's principal. The school has also removed her from academic duty.

According to the police, the student was moving from one class to another on April 25 when another teacher noticed his face and how it appeared like he had been slapped. The teacher asked the boy if someone had thrashed him at school. He then narrated his ordeal, stating that the other teacher had taped his mouth and tied his hands.

The accused teacher said the child was not listening to her and was troubling her.

After the principal was informed of the incident, the school authorities checked CCTV cameras and the footage corroborated the child's version, according to the police. Police have seized the CCTV footage and are investigating further.

School authorities, in a statement, said, "On April 25, around 12 pm, during checking of CCTV footage, the head of school discovered that a female teacher was inflicting corporal punishment and ill-treating a child with special needs. The school has adopted a zero corporal punishment [policy] and is known for giving children with special needs care, attention and affection. The behaviour of the Special Education Teacher was unacceptable and beyond our imagination."

"The Principal decided to immediately remove her from academic duty and she was sent on mandatory leave within a few hours... Police officials were informed by call and e-mail immediately... counselling is being given to the child... parents of the child were informed by the school and all concerned, including parents' representatives, were kept in the loop," it said.

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Government of India

Initiative Partner
Central Electricity Authority

फॉर्म संख्या: INC-26

[कंपनी (निगमन) नियम, 2014 के नियम 30 के अंतर्गत]

पंजीकृत कार्यालय को एक राज्य से दूसरे राज्य में स्थानांतरित करने के लिए विज्ञापन

केन्द्र सरकार (क्षेत्रीय निदेशक), उत्तरी क्षेत्र, दिल्ली के समक्ष

कंपनी अधिनियम, 2013 की धारा 13 की उप-धारा (4) और कंपनी (निगमन) नियम, 2014 के नियम 30 की उप-नियम (5) की उपधारा (क) के अंतर्गत

तथा

आईसीएस फ्रेट सिस्टम प्राइवेट लिमिटेड जिसका पंजीकृत कार्यालय एल-33A, प्लॉट नं. 141, दूसरी मंज़िल, गली नं. 5सी, महिपालपुर एक्सटेंशन, नई दिल्ली - 110037 में स्थित है,के संदर्भ में

-----याचिकाकर्ता

एतद्वारा आम जनता को सूचित किया जाता है कि उ.रा क्षेत्र [illegible] से हरियाणा राज्य में उसके पंजीकृत कार्यालय को स्थानांतरित करने के लिए कंपनी को सक्षम बनाने के लिए शनिवार, 3 अप्रैल, 2025 को आयोजित असाधारण आमसभा में पारित विशेष प्रस्ताव के अनुसार कंपनी के मेमोरेंडम ऑफ एसोसिएशन के परिवर्तन की पुष्टि के लिए कम्पनी अधिनियम, 2013 की धारा 13 के अंतर्गत आवेदक कंपनी केन्द्र सरकार के पास आवेदन करने का प्रस्ताव करती है।

कंपनी के पंजीकृत कार्यालय के इस प्रस्तावित परिवर्तन से यदि किसी व्यक्ति का हित प्रभावित होता हो, वे अपनी आपत्ति MCA-21 पोर्टल (www.mca.gov.in) पर निवेशक शिकायत फॉर्म भरकर प्रस्तुत कर सकते हैं अथवा उसके नीचे वर्णित पंजीकृत कार्यालय में आवेदक कंपनी को उसकी एक प्रति के साथ इस सूचना के प्रकाशन की तिथि से चौदह दिनों के भीतर अपने हित की प्रकृति तथा आपत्ति के कारणों का उल्लेख करते हुए एक शपथ पत्र द्वारा समर्थित अपनी आपत्ति क्षेत्रीय निदेशक, उत्तरी क्षेत्र, दिल्ली के पते: बी-2 विंग, 2 रा तल पं. दीनदयाल अंत्योदय भवन, सीजीओ कॉम्प्लैक्स, नई दिल्ली-110003 में जमा करें या जमा कराएं या पंजीकृत डाक से भेजें:

आईसीएस फ्रेट सिस्टम प्राइवेट लिमिटेड(आवेदक)
की ओर से
हस्ता/-
वीर सिंह मलिक
निदेशक
DIN: 02384330

स्थान: दिल्ली
तिथि: 05.05.2025

पीएफसी कंसल्टिंग लिमिटेड

(पीएफसी लिमिटेड की पूर्ण स्वामित्व वाली सहायक कंपनी)
पंजीकृत कार्यालय : प्रथम तल, "ऊर्जानिधि", 1, बाराखम्बा लेन, कनॉट प्लेस, नई दिल्ली–110001, फैक्स : 011–23443990

वैश्विक आमंत्रण (केवल ई–निविदा के माध्यम से)

अन्तर्राज्यीय पारेषण परियोजना के लिए निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (BOOT) आधार पर ट्रांसमिशन सेवा प्रदाता के चयन हेतु

पीएफसी कंसल्टिंग लिमिटेड, पावर फाइनैंस कार्पोरेशन लिमिटेड (भारत सरकार का उपक्रम) की पूर्ण स्वामित्वाधीन सहायक कम्पनी एकल चरण दो लिफाफा प्रक्रिया वाले "प्रस्ताव हेतु अनुरोध" (आरएफपी) का पालन करते हुए निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (BOOT) आधार पर ट्रांसमिशन परियोजना की स्थापन के लिए प्रस्ताव आमंत्रित करता है।

इच्छुक बोलीदाता वेबसाइट **https://www.mstcecommerce.com** तथा **https://www.pfcclindia.com** पर उपलब्ध आरएफपी अधिसूचना तथा आरएफपी दस्तावेज देख सकते हैं।

निविदादाता अ–प्रतिदेय शुल्क रू. 5,00,000/– या यूएसडी (यूएस डॉलर) 7,000 + 18 प्रतिशत की दर से लागू जीएसटी का भुगतान करके आरएफपी दस्तावेज **05.05.2025 से निम्नलिखित परियोजना के लिए निविदा जमा करने से एक कार्यदिवस पूर्व तक** सभी कार्यदिवसों में 10:30 बजे (आईएसटी) से 16:00 बजे (आईएसटी) के बीच 9वां तल, विंग – ए, स्टेट्समैन हाउस, बाराखम्बा रोड़, कनॉट प्लेस, नई दिल्ली–110001, फोन : 91–11–23443996 ; ई–मेल : **pfccl.itp@pfcindia.com** से प्राप्त कर सकते हैं। आरएफपी दस्तावेज **https://www.mstcecommerce.com** तथा **https://www.pfcclindia.com** से भी डाउनलोड किए जा सकते हैं, यद्यपि, ऐसे मामले में, इच्छुक पार्टियों को आरएफपी के उत्तर के साथ अलग से अ–प्रतिदेय शुल्क रू. 5,00,000/– या यूएसडी (यूएस डॉलर) 7,000 + 18 प्रतिशत की दर से लागू जीएसटी को जमा करके आरएफपी के उत्तर जमा कर सकते हैं। आरएफपी दस्तावेज के लिए सर्वेक्षण रिपोर्ट एवं स्पष्टीकरण उन बोलीदाताओं को जारी किये जायेंगे जिन्होंने उपरोक्त परियोजना हेतु आरएफपी को निविदा को जमा करने की तिथि से कम से कम एक कार्यदिवस पूर्व आवश्यक शुल्क का भुगतान कर आरएफपी दस्तावेज प्राप्त/खरीदा था। स्पष्टीकरण/संशोधन/समय विस्तार, यदि होगा, आदि के संबंध में स्वंय को अद्यतन रखने के लिए निविदादाता नियमित रूप वेबसाइट देखते रहें। इस संबंध में महत्वपूर्ण तिथियां निम्नानुसार है:

क्र. सं.	सम्प्रेषण स्कीम का नाम	स्पष्टीकरण मांगने हेतु अंतिम तिथि (तिथि/माह/वर्ष)	आरएफपी का प्रत्युत्तर प्रस्तुत करने हेतु अंतिम तिथि (तिथि/माह/वर्ष)	आरएफपी का प्रत्युत्तर खोलने की तिथि (तिथि/माह/वर्ष)
1	कुर्नूल–IV आरईजेड के लिए पारेषण प्रणाली – चरण– I (3 गीगावाट)	26/05/2025	08/07/2025 को 15:00 बजे (आईएसटी) तक	08/07/2025 को 15:30 बजे (आईएसटी) तक

नोट : पीएफसी कंसल्टिंग लिमिटेड बिना कोई कारण बताए और बिना किसी दायित्व के निविदा प्रक्रिया को निरस्त या संशोधित करने का अधिकार रखता है। यह कोई प्रस्ताव नहीं है।

बोली प्रक्रिया समन्वयक
PFC CONSULTING LTD.
(पीएफसी लिमिटेड की पूर्णतः स्वामित्वाधीन सहायक कंपनी)
(भारत सरकार का उपक्रम)

पहल कर्ता
विद्युत मंत्रालय
भारत सरकार

अग्रणी भागीदार
केंद्रीय विद्युत प्राधिकरण

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INITIAL PUBLIC OFFERING OF EQUITY SHARES ON THE MAIN BOARD OF THE STOCK EXCHANGES IN COMPLIANCE WITH CHAPTER II OF THE SECURITIES AND EXCHANGE BAORD OF INDIA (ISSUE OF CAPITAL DISCLOSURES REQUIREMENTS) REGULATIONS, 2018, AS AMENDED.

PUBLIC ANNOUNCEMENT

(Please scan this QR Code to view the DRHP)

BMW VENTURES LIMITED

BMW VENTURES LIMITED

Our Company was originally incorporated as "BMW Ventures Limited" at Patna, Bihar on October 07, 1994, as a Public Limited Company under the provisions of the Companies Act, 1956 with the Registrar of Companies, Bihar, Patna, bearing Corporate Identification Number U25111BR1994PLC006131 and Certificate of Commencement of Business was issued on October 19, 1994 at Patna.

Registered and Corporate Office: 1st Floor, Mona Cinema Complex, East Gandhi Maidan, Patna-800004;
Tel. No: +91 81022 23771/74; **E-mail:** cs@bmwventures.com; **Website:** www.bmwventures.com;
Contact Person: Ruchika Maheshwari Kejriwal, Company Secretary and Compliance Officer; **Corporate Identity Number:** U25111BR1994PLC006131

PROMOTERS OF THE COMPANY: MR. BIJAY KUMAR KISHOREPURIA, MRS. SABITA DEVI KISHOREPURIA, MR. NITIN KISHOREPURIA, MRS. RACHNA KISHOREPURIA, BMW FIN-INVEST PRIVATE LIMITED, RIDHISIDHI FINCON PRIVATE LIMITED

INITIAL PUBLIC OFFERING OF UP TO 2,34,00,000 EQUITY SHARES OF FACE VALUE OF ₹10 EACH ("EQUITY SHARES") OF OUR COMPANY FOR CASH AT A PRICE OF ₹[•] PER EQUITY SHARE (INCLUDING A SHARE PREMIUM OF ₹[•] PER EQUITY SHARE) ("ISSUE PRICE") AGGREGATING UP TO ₹[•] LAKHS (THE "ISSUE"). THE ISSUE

PFC CONSULTING LTD

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लि० की पूर्णत स्वामित्वाधीन सहायक कम्पनी)
PFC CONSULTING LIMITED
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No. 04/ITP-108/25-26/RFP

May 08, 2025

To,
Director (Transmission),
Ministry of Power,
Shram Shakti Bhawan,
New Delhi – 110001

Subject: Publishing RFP notification and RFP Documents for Selection of the Transmission Service Provider for establishing transmission system for "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" on the website of MoP.

Dear Sir,

Ministry of Power vide Gazette Notification no. CG-DL-E-30032025-262168 dated March 27, 2025 has notified PFC Consulting Limited (PFCCL) as Bid Process Coordinator (BPC) to undertake the bid process for selection of Transmission Service Provider (TSP) for establishing "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**" in accordance with the Guidelines namely "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging Competition in Development of Transmission Projects" issued by Ministry of Power.

The bid process for selection of Transmission Service Provider (TSP) for establishing transmission system for "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**" has been initiated with the publication of RFP notification on May 05, 2025 (copy of the RFP notification enclosed). The same has also been made available along with the RFP document on PFCCL website 'www.pfcclindia.com' w.e.f. May 05, 2025. It may be noted that these RFP Document are based on the Single Stage Two Envelope (RFQ & RFP combined) Standard Bidding Documents (SBD) issued by Ministry of Power on August 06, 2021. The last date for submission of Responses to RFP is July 08, 2025.

It is requested that in line with the requirements of the Guidelines (Clause 9.2 of Tariff based Competitive-bidding Guidelines for Transmission Service), the RFP Notice and RFP documents may be published on the website of Ministry of Power. The soft copy of the RFP Notification and RFP documents has been mailed separately at the email address transdesk-mop@nic.in. We are also enclosing herewith the RFP documents for your kind information, perusal and records please.

Thanking You,

Yours sincerely,

(Naveen Phougat)
General Manager

Encl.: As Above

PFC CONSULTING LTD

पीएफसी कंसल्टिंग लिमिटेड
(पावर फाइनेंस कॉर्पोरेशन लिमिटेड की पूर्ण स्वामित्वाधीन सहायक कंपनी)
PFC CONSULTING LIMITED
(A wholly Owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No. 01A/ITP-108/25-26/RfP/Land_Acq **June 10, 2025**

To,

The Collector and District Magistrate,
Integrated District Office Complexes,
Kongara Kalan Village,
Ibrahimpatnam Mandal,
Ranga Reddy – 501510

Sub: Consideration of Substation Location at **Taluka:** Kondurg, **District:** Rangareddy for Transmission Scheme "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**" – Regarding.

Dear Sir,

We like to bring to your kind notice that, Ministry of Power (MoP) vide its **CG-DL-E-30032025-262168** dated 27.03.2025 **(copy attached)** has appointed PFC Consulting Limited (PFCCL) as the Bid Process Coordinator (BPC) for the purpose of selection of Developer for Transmission Scheme "**Transmission System for Kurnool-IV REZ - Phase-II (3 GW)**" through Tariff Based Competitive Bidding process under "Tariff Based Competitive Bidding Guidelines for Transmission Services" and "Guidelines for Encouraging Competition in Development of Transmission Projects" (the Guidelines), notified by Ministry of Power, Govt. of India.

PFCCL is required to carry out preliminary survey work, identification of route, preparation of Survey Report, initiation of the process of land acquisition for substation location, initiation of process of seeking forest clearance (if required) and to conduct the bidding process for selection of developer for subject project.

The Transmission Scheme for the subject scheme comprises of the following:

"Establishment of 4x1500 MVA, 765/400 kV Shadnagar Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard" Proposed at Village: **Mutpoor,** Taluka: **Kondurg,** District: **Rangareddy.**

After conducting the preliminary survey, substation location at Village: **Mutpoor**, District: **Rangareddy** has been finalised. It is estimated that approx. **200 Acre** land is required for the proposed substation. The details of the proposed substation location are as follows: -

Particulars	Rangareddy District			
Village/Taluka	Mutpoor / Kondurg			
District	Rangareddy			
Total Area of Land	Approx. 200 Acre			
Type of Land	Private Land			
Land Coordinates	**Easting**	**Northing**	**Latitude**	**Longitude**
Corner-1	184119.07 m E	1898463.99 m N	17°8'56.76"N	78° 1'52.13"E
Corner-2	184462.02 m E	1897791.01 m N	17° 8'35.06"N	78° 2'4.07"E
Corner-3	185445.09 m E	1898157.89 m N	17° 8'47.47"N	78° 2'37.11"E
Corner-4	185151.11 m E	1898843.02 m N	17° 9'9.59"N	78° 2'26.82"E

The location of Sub-station area on Toposheet and Sub-station site location map indicating approach road also is enclosed for ready reference.

It may be noted that, after completion of the bidding process PFCCL will transfer this project to the successful bidder called Transmission Service Provider (TSP). The TSP will further take care of the process of land acquisition for substation location, initiation of process of seeking forest clearance (if required) as per the prevailing rules and regulations.

In view of the above, it is requested that the land as per the above details and indicated Substation location over the map may kindly be considered for allotment to the successful bidder for the construction. Further, it is requested that the formalities as required to be completed by us for the same may be intimated to us at the following contact details.

Name:	Nitesh Jambhulkar
Designation:	Dy. General Manager
Email id:	nr_jambhulkar@pfcindia.com
Phone:	+91 – 9555738080; 011-23443712

Thanking you.

Yours Sincerely,

(Nand Kishor Nagar)
Deputy General Manager

Enclosures:

1. Copy of Gazette Notification from MoP, Govt. of India
2. Location of substation on Toposheet.

PFC CONSULTING LTD.

पीएफसी कंसल्टिंग लिमिटेड

PFC CONSULTING LIMITED

(A wholly owned subsidiary of Power Finance Corporation Limited)

Ref.: 04/25-26/ITP-108/RFP

June 27, 2025

To,
Sh. Rakesh Goyal, Secretary,
Central Electricity Authority,
Sewa Bhawan, R.K. Puram,
New Delhi – 110066

Sub: Prior approval of the Govt. under Section 68(1) of the Electricity Act, 2003 for the Transmission Project – "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

Dear Sir,

1. Ministry of Power (MoP) vide its Gazette Notification no CG-DL-E-30032025-262168 dated March 27, 2025 has notified PFC Consulting Limited (PFCCL) to be the Bid Process Coordinator (BPC) for selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system for **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** through tariff based competitive bidding process.

2. The bid process was initiated by issuing Single Stage Request for Proposal (RFP) documents on May 05, 2025. The submission of RFP bids was originally scheduled on July 08, 2025, which has been extended till July 24, 2025.

3. It may be noted that as per Clause No. 1.6.2.1 (2) of Standard RFP documents, BPC i.e. PFC Consulting Limited has to obtain approval for laying of overhead transmission lines under Section 68(1) of the Electricity Act, 2003 from appropriate Government for the subject transmission scheme.

4. In view of the above, it is requested that approval for laying of overhead transmission lines under Section 68(1) of the Electricity Act, 2003 may kindly be granted by the Ministry of Power, Government of India in respect of the subject transmission project in favour of **"KURNOOL IV REZ POWER TRANSMISSION LIMITED"** the SPV (which shall own the transmission scheme project and the transmission license shall also be issued in its favour) as per the details given below:

S. No.	Description of the Transmission Element
1.	LILO of Kurnool-IV – Bidar 765kV D/c line at Shadnagar
2.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/c line {TGTRANSCO to upgrade Shadnagar (TGTRANSCO) to 400 kV in matching time frame}
3.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/c line

5. Further, the application and all the necessary documents are also being submitted on the National Single Window System (NSWS) portal.

Thanking you,

Yours Sincerely,

(Rishab Jain)
Director

CEA-PS-11-16(13)/1/2024-PSPA-I Division

I/51196/2025

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन - I प्रभाग
Power System Planning & Appraisal - I Division

सेवा में /**To,**

Shri Naveen Phougat,
General Manager, PFCCL,
1st Floor, URJANIDHI, 1,
Barakhamba Lane, Connaught Place,
New Delhi - 110001

विषय/**Subject: Constitution of the Bid Evaluation Committees (BEC) for the transmission scheme – being implemented through TBCB -reg.**

संदर्भ / **References:**

(i) Gazette of India (Extraordinary) notification dated 27.03.2025.
(ii) M/s PFCCL letter dated 21.03.2025

महोदय/ Sir,

Ministry of Power vide Gazette notification under reference (i) has notified the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" for implementation through tariff based competitive bidding (TBCB) with M/s PFCCL as the Bid Process Coordinator (BPC)

M/s PFCCL vide its letter under reference (ii) has requested CEA to constitute the Bid Evaluation Committee (BEC) for the above mentioned transmission scheme. Accordingly, CEA has sought nominations from SRPC for constitution of BEC.

Based on the nominations received from SRPC and the revised nomination received from SBI, the Bid Evaluation Committee (BEC) for evaluation of bids of the above mentioned transmission scheme is hereby constituted and is given below:

S. No.	Name	Designation
1.	Sh. Amit Jog, General Manager, State Bank of India, Commercial Clients Group Regional Office -II, New Delhi	Chairman
2.	Sh. Narasappa Reddy Rama Chandra Reddy, Chief Engineer (Planning), Power System, APTRANSCO	Member
3.	Smt. S. Bojjamma, Chief Engineer, Construction, TGTRANSCO	Member
4.	Sh. Ganeswara Rao Jada, Director, PSPA-I Division, CEA	Member
5.	Sh. Bhanwar Singh Meena, Director, PSETD Division, CEA	Member
6.	Chairman of SPV constituted by PFCCL	Convener -Member

It may be mentioned that the Bid Evaluation Committee for the above mentioned transmission schemes have been constituted in line with Clause 9.8 of the Tariff based Competitive Bidding Guidelines for Transmission Service issued on 10.08.2021.

This issues with the approval of Member (Power Systems), CEA.

भवदीय / Yours faithfully,
Signed by Pawan Kumar Gupta
Date: 09-07-2025 12:39:21

(पवन कुमार गुप्ता / Pawan Kumar Gupta)
उप निदेशक / Dy. Director

Project In-charge, ITP

From: PSPA I Division CEA <cea-pspa1@gov.in>
Sent: Monday, January 19, 2026 12:45 PM
To: Project In-charge, ITP
Cc: Ganeswara Rao Jada; Pawan Kumar Gupta; Sanjay Nayak; Naveen Phougat; Nirmala Meena; Dharmender
Subject: Revised nomination for constitution of BEC for the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW): - Reg
Attachments: Rev_nominations for BEC-Kurnool-IV REZ-Phase-II (3 GW).pdf

This email is originated from outside your organization. Exercise caution when opening attachments or clicking links, espe

Sir,

Please find the attached revised nomination received from SRPC for constitution of BEC for the subject transmission scheme.

Regards,
o the CE(PSPA-I), CEA

E-mail/Speed Post

भारत सरकार
केंद्रीयविद्युत प्राधिकरण
दक्षिण क्षेत्रीय विद्युत समिति
29, रेसकोर्स क्रास रोड
बेंगलूर- 560 009

Government of India
Central Electricity Authority
Southern Regional Power Committee
29, Race Course Cross Road
Bengaluru- 560 009

Email: mssrpc-ka@nic.in Phone: 080-22287205 Fax: 080-22259343

सं/No. SRPC/MS/2026/258-59 दिनांक/ Date **16.01.2026**

सेवा में / To

The Chief Engineer
Power System Planning & Appraisal - I Division
Central Electricity Authority
Sewa Bhavan, R K Puram, New Delhi-110 066

Sub: Nominations for constitution of the Bid Evaluation Committee (BECs) for **Transmission system for integration of Kurnool-IV REZ – Phase-II (for 3 GW) - reg.**

Ref: CEA PSPA-1 Division E-mail dated 14.01.2026 seeking Re-nominations from APTRANSCO for the subject scheme

महोदय/ महोदया/ Sir/ Madam,

With reference to the above, the following Officer is nominated for constitution of the Bid Evaluation Committee (BECs) for the **Transmission system for integration of Kurnool-IV REZ – Phase-II (for 3 GW)** for implementation through tariff based competitive bidding (TBCB) with M/s PFCCL as Bid Process Coordinator (BPC):

New Nomination	*Nomination withdrawn*
Sh. T Sudeevan Kumar Chief Engineer, Projects, APTRANSCO Vidyuth Soudha, Gunadala, Vijayawada-520004 Email: sundeevankumar@aptransco.gov.in Mob: 9440907401	*Sh. Narasappa Reddy Rama Chandra Reddy* *Chief Engineer (Planning), Power System, Vidyuth Soudha, Gunadala, Vijayawada-520004* *Email: rcreddy.n@aptransco.gov.in* *Mob: 949015375*

धन्यवाद/ Thanking you,

भवदीय/ Yours faithfully,

(**असित सिंह /Asit Singh**)
सदस्य सचिव/ Member Secretary

Copy for kind information to:

1. Chief Engineer, Projects, APTRANSCO, Vidyuth Soudha, Gunadala, Vijayawada.

No. 25-17/70/2025-PG
Government of India
Ministry of Power
***

Shram Shakti Bhawan, Rafi Marg
New Delhi, dated 14th July, 2025

To,

Shri Rishabh Jain, Director,
M/s KURNOOL IV REZ POWER TRANSMISSION LIMITED,
9th Floor (A-Wing), Statesman House,
Connaught Place, New Delhi – 110001.
Email: rishabjain@pfcindia.com

Subject: Prior approval of the Government of India under Section 68 (1) of the Electricity Act, 2003, for installation of overhead transmission lines under the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" to M/s KURNOOL IV REZ POWER TRANSMISSION LIMITED, a wholly owned subsidiary of PFC Consulting Limited (PFCCL) – regarding

Sir,

I am directed to refer to M/s PFCCL's online application on NSWS portal dated 27.06.2025, seeking prior approval of Government of India under Section 68 (1) of the Electricity Act 2003, for installation of the following overhead transmission lines under the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)", in favour of 'KURNOOL IV REZ POWER TRANSMISSION LIMITED', a wholly owned subsidiary of PFCCL, who shall own the transmission scheme project:

- LILO of Kurnool-IV – Bidar 765 kV D/c line at Shadnagar
- Shadnagar – Shadnagar (TGTRANSCO) 400 kV D/c line
- Shadnagar – Kethiredipally (TGTRANSCO) 400 kV D/c line

2. Ministry of Power vide Gazette no. CG-DL-E-30032025-262168 dated 27.03.2025 has appointed PFC Consulting Limited (PFCCL) as the Bid Process Coordinator for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)" to be implemented through Tariff Based Competitive Bidding (TBCB) route. PFCCL, the Bid Process Coordinator, has incorporated the SPV, 'KURNOOL IV REZ POWER TRANSMISSION LIMITED', for implementation of the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

3. Based on the recommendation of Central Electricity Authority (CEA); Ministry of Power, Government of India conveys the prior approval under Section 68 (1) of the Electricity Act, 2003 to the SPV, 'KURNOOL IV REZ POWER TRANSMISSION LIMITED' for installation of the following overhead transmission lines under the transmission scheme "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)":

- LILO of Kurnool-IV – Bidar 765 kV D/c line at Shadnagar (~ 50 km)
- Shadnagar – Shadnagar (TGTRANSCO) 400 kV D/c line (~ 50 km)
- Shadnagar – Kethiredipally (TGTRANSCO) 400 kV D/c line (~ 60 km)

Contd/...

4. The approval would be subject to compliance of:

(i) The relevant provisions of the Electricity Act, 2003, as amended from time to time and the rules and regulations made there under, and

(ii) CEA (Measures relating to Safety and Electric Supply) Regulations, 2023, and any subsequent amendments made thereto.

5. The approval would also be subject to the following conditions:

(i) The implementing agency will commence construction of the project within three years of grant of approval, unless this term is extended by Ministry of Power.

(ii) Ministry of Power may withdraw the approval before the expiry of the period of three years after giving a one-month notice.

(iii) The implementing agencies shall abide by the provisions of Works of Licensees Rules, 2006 notified by the Govt. of India, Ministry of Power in the Gazette of India, extra-ordinary Part-II, Section 3(i) dated 18-04-2006 (vide GSR 217 (E) dated 18-04-2006).

Yours faithfully,

M V N Vara Prasad

(M.V.N. Vara Prasad)
Under Secretary to the Government of India
Tele: 011-23730264

Copy to:

The Chairperson,
Central Electricity Authority,
Sewa Bhawan, R.K. Puram, New Delhi 110066.

***

Transmission System for Kurnool-IV REZ - Phase-II (3 GW) - Regarding Updated TSA

Project In-charge, ITP

Mon 3/16/2026 12:10 PM

To:Deepak Krishnan (दीपक कृष्णन) <deepakkrishnan@powergrid.in>;

Cc:Kamal Kumar Jain (कमल कुमार जैन) (kkjain@powergrid.in) <kkjain@powergrid.in>; Naveen Phougat <naveen.phougat@pfcindia.com>; Nirmala Meena <nirmala_meena@pfcindia.com>; Dharmender <dharmender@pfcindia.com>;

2 attachments

03032026_TSA__Kurnool-IV PS_ITP-108.docx; Annexure I_03032026_TSA__Kurnool-IV PS_ITP-108.pdf;

Dear Sir,

The RFP bids for the subject transmission scheme were submitted on 10.03.2026, and the SPV is to be transferred tentatively by 30.03.2026. In this regard, please find attached the updated TSA for your information and necessary action.

Thanks & Regards
PFC Consulting Limited
New Delhi

Date: March 30, 2026

CERTIFICATE BY THE BID EVALUATION COMMITTEE

Sub.: Selection of Successful Bidder as Transmission Service Provider to establish "Transmission System for Kurnool-IV REZ - Phase-II (3 GW)".

It is hereby certified that:

1. The entire bid process has been carried out in accordanre with the "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging competition in development of the Transmission Projects" issued by Ministry of Power, Govt. of India under Section 63 of the Electricity Act, 2003 and as amended from time to time.

2. **'Resonia Limited'** emerged as the Successful Bidder after the conclusion of e-reverse bidding process with the lowest Quoted Transmission Charges of **Rs.3,051.95 million per annum.**

3. The quoted tariff is lower than the Levelised Tariff calculated based on CERC norms considering the Capital Cost for the Project **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** as assessed by Cost Committee. The quoted tariff discovered through e-reverse bidding process is acceptable.

Name of Committee Member	Signature
Sh. Amit Jog, General Manager, State Bank of India, Commercial Clients Group Regional Office-II, New Delhi - **Chairman**	
Sh. T Sudeevan Kumar, Chief Engineer (Projects), APTRANSCO - **Member**	
Smt. S. Bojjamma, Chief Engineer, Construction, TGTRANSCO - **Member**	
Sh. Ganeswara Rao Jada, Director, PSPA-I Division, CEA - **Member**	
Sh. Bhanwar Singh Meena, Director, PSPA-I Division, CEA - **Member**	
Sh. Neeraj Singh, Chairman, Kurnool IV REZ Power Transmission Limited, New Delhi - **Convener Member**	

F. No. 24-9/4/2024-PFC (MoP)
Government of India
Ministry of Power
*****

Shram Shakti Bhawan, Rafi Marg,
New Delhi, Dated: 4th May, 2026

To,

The Chief Executive Officer,
PFCCL, First Floor
Urjanidhi, 1, Barakhamba Lane,
New Delhi-110003

Subject: Approval of the Government for transfer of shares held by PFCCL in various SPVs, incorporated for development of inter-State transmission systems, to respective successful bidders- reg.

Ref: (i) PFCCL's letter No. 04/25-26/ITP-108/RFP dated 17.04.2026
(ii) PFCCL's letter No. 04/25-26/ITP-111/RFP dated 17.04.2026
(iii) PFCCL's letter No. 04/25-26/ITP-115/RFP dated 17.04.2026

Sir,

I am directed to refer to PFCCL's letters under reference (i) to (iii) above, on the subject cited above and to convey the approval of the Competent Authority for divesting the shareholding of PFCCL and its nominee in following Special Purpose Vehicles (SPVs), incorporated for carrying out bidding of various inter-State transmission projects under Tariff Based Competitive Bidding (TBCB) mode, to the respective successful bidders, as indicated in below table, with a view to facilitate transfer of the SPVs to the successful bidders, as required under Ministry of Heavy Industries, Department of Public Enterprises O.M. No. 22(1)/2009-GM dated 04.02.2010:

S. No.	Name of the Project	Name of the SPV	Successful Bidder
1	Transmission System for Kurnool-IV REZ Phase-II (3 GW)	Kurnool IV REZ Power Transmission Limited	Resonia Limited
2	Transmission System Strengthening at Tumkur-II for Integration of Additional RE Potential (2.7 GW)	Tumkur II RE Transmission Limited	Power Grid Corporation of India Limited
3	NERGS-III Siang Basin	NERGS III Siang Basin Transmission Limited	Dineshchandra R Agarwal Infracon Private Limited

Yours faithfully

4/5/26

(Nidhi Juneja)
Under Secretary to the Govt. of India
Email: juneja.n13@nic.in/
sopfcrec-mop@gov.in
Tele: 011-23711302

Copy for information to:

i. CMD, PFC Limited, New Delhi.

ii. US (Trans):- With the request that Transmission Wing may write to concerned States, informing about the project, for extending all possible help in assessment of compensation to be paid to landowners and also expediting forest clearance, if involved in the project.

iii. PPS to Secretary (Power)/ JS (Dist.)/ Dir (Dist), Ministry of Power.

Dated 29th May, 2026

SHARE PURCHASE AGREEMENT

BETWEEN

PFC CONSULTING LIMITED

AND

KURNOOL IV REZ POWER TRANSMISSION LIMITED

AND

RESONIA LIMITED

[FORMERLY KNOWN AS STERLITE GRID 32 LIMITED]

PFC CONSULTING LIMITED NEW DELHI

KURNOOL IV REZ POWER TRANSMISSION LTD. NEW DELHI

RESONIA LIMITED

Shubham Arya

Digitally signed by: Shubham Arya
DN: CN = Shubham Arya C = IN O = Personal
Date: 2026.06.04 14:46:59 + 05'30'

सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

₹500

e-Stamp

Certificate No.	:	IN-DL19804467633203Y
Certificate Issued Date	:	27-May-2026 03:54 PM
Account Reference	:	IMPACC (IV)/ dl716803/ DELHI/ DL-WSD
Unique Doc. Reference	:	SUBIN-DLDL71680352236557716529Y
Purchased by	:	PFC CONSULTING LIMITED
Description of Document	:	Article 5 General Agreement
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	PFC CONSULTING LIMITED
Second Party	:	Not Applicable
Stamp Duty Paid By	:	PFC CONSULTING LIMITED
Stamp Duty Amount(Rs.)	:	500 (Five Hundred only)

₹500₹500₹500₹500

सत्यमेव जयते

Please write or type below this line IN-DL19804467633203Y

THIS STAMP PAPER FORMS INTEGRAL PART OF THE ENCLOSED SHARE PURCHASE AGREEMENT EXECUTED BETWEEN **PFC CONSULTING LIMITED, KURNOOL IV REZ POWER TRANSMISSION LIMITED** AND **RESONIA LIMITED** *(FORMERLY KNOWN AS STERLITE GRID 32 LIMITED)*

PFC CONSULTING LIMITED NEW DELHI

KURNOOL IV REZ POWER TRANSMISSION LTD. NEW DELHI

RESONIA LIMITED

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

₹500

e-Stamp

Certificate No.	:	IN-DL19803897916746Y
Certificate Issued Date	:	27-May-2026 03:54 PM
Account Reference	:	IMPACC (IV)/ dl716803/ DELHI/ DL-WSD
Unique Doc. Reference	:	SUBIN-DLDL71680352237475906640Y
Purchased by	:	PFC CONSULTING LIMITED
Description of Document	:	Article 5 General Agreement
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	PFC CONSULTING LIMITED
Second Party	:	Not Applicable
Stamp Duty Paid By	:	PFC CONSULTING LIMITED
Stamp Duty Amount(Rs.)	:	500 (Five Hundred only)

₹500₹500₹500₹500

सत्यमेव जयते

Please write or type below this line IN-DL19803897916746Y

THIS STAMP PAPER FORMS INTEGRAL PART OF THE ENCLOSED SHARE PURCHASE AGREEMENT EXECUTED BETWEEN **PFC CONSULTING LIMITED, KURNOOL IV REZ POWER TRANSMISSION LIMITED** AND **RESONIA LIMITED** *(FORMERLY KNOWN AS STERLITE GRID 32 LIMITED)*

PFC CONSULTING LIMITED NEW DELHI

KURNOOL IV REZ POWER TRANSMISSION LTD. NEW DELHI

RESONIA LIMITED

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

₹200

e-Stamp

Certificate No.	:	IN-DL19800995201045Y
Certificate Issued Date	:	27-May-2026 03:52 PM
Account Reference	:	IMPACC (IV)/ dl716803/ DELHI/ DL-WSD
Unique Doc. Reference	:	SUBIN-DLDL71680352228884929093Y
Purchased by	:	PFC CONSULTING LIMITED
Description of Document	:	Article 5 General Agreement
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	PFC CONSULTING LIMITED
Second Party	:	Not Applicable
Stamp Duty Paid By	:	PFC CONSULTING LIMITED
Stamp Duty Amount(Rs.)	:	200 (Two Hundred only)

₹200₹200₹200₹200

सत्यमेव जयते

Please write or type below this line IN-DL19800995201045Y

THIS STAMP PAPER FORMS INTEGRAL PART OF THE ENCLOSED SHARE PURCHASE AGREEMENT EXECUTED BETWEEN **PFC CONSULTING LIMITED, KURNOOL IV REZ POWER TRANSMISSION LIMITED** AND **RESONIA LIMITED** *(FORMERLY KNOWN AS STERLITE GRID 32 LIMITED)*

PFC CONSULTING LIMITED NEW DELHI

KURNOOL IV REZ POWER TRANSMISSION LTD. NEW DELHI

RESONIA LIMITED

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

SHARE PURCHASE AGREEMENT

This **SHARE PURCHASE AGREEMENT** ('Agreement') is made on 29th day of May 2026 at New Delhi by and between:

PFC CONSULTING LIMITED (a wholly owned subsidiary of Power Finance Corporation Ltd.), a Company incorporated under the Companies Act, 1956, having CIN U74140DL2008GOI175858, and its registered office at First Floor, "Urjanidhi",1 Barakhamba Lane, Connaught Place, New Delhi - 110001 (hereinafter referred to as "**PFCCL**", which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **FIRST PART**;

AND

KURNOOL IV REZ POWER TRANSMISSION LIMITED, a Company incorporated under the Companies Act, 2013, having CIN U42201DL2025GOI450108 and its registered office at First Floor, "Urjanidhi",1 Barakhamba Lane, Connaught Place, New Delhi - 110001 (hereinafter referred to as "**Company**" which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **SECOND PART**;

AND

RESONIA LIMITED ***(formerly known as Sterlite Grid 32 Limited)*** , a Company incorporated under the Companies Act, 2013 having CIN U40106HR2022PLC103798 and its registered office at RMZ Infinity, 5th Floor, Plot No. 15, Phase IV, Udyog Vihar, Palam Road, Gurugram, Haryana - 122015 (hereinafter referred to as "**Selected Bidder**" which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **THIRD PART.**

WHEREAS:

A. The Government of India, Ministry of Power (MoP), vide its Gazette Notification No. CG-DL-E-30032025-262168 dated March 27, 2025 had notified PFC Consulting Limited (PFCCL) to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system for **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"** through Tariff Based Competitive Bidding Process (hereinafter referred to as the "Project"). Further, the scope of the scheme was revised vide Gazette Notification No. CG-DL-E-30122025-268905 dated 26.12.2025.

PFC CONSULTING LIMITED NEW DELHI PFCCL

KURNOOL IV REZ POWER TRANSMISSION LTD. NEW DELHI RPTL

RESONIA LIMITED RESONIA

B. In accordance with the Bidding Guidelines, PFCCL had initiated a Bid Process through issuance of RFP documents for selecting a Successful Bidder to build, own, operate and transfer the Project in accordance with and on the terms and conditions mentioned in the RFP Project Documents (as defined hereinafter).

C. PFCCL has incorporated the Company and PFCCL along with the Nominees hold One hundred per cent (100 %) of total issued and paid-up equity share capital of the Company.

D. PFCCL has initiated the development of the Project and has obtained survey report, certain clearances, consents and permits as specified in the RFP regarding the Project.

E. Pursuant to the said Bid Process, **Resonia Limited** *(formerly known as Sterlite Grid 32 Limited)* has been identified as the Selected Bidder vide Letter of Intent dated 30.03.2026 issued by the PFCCL in favor of the Selected Bidder.

F. As envisaged in the RFP, the Shares Seller (as defined hereinafter) has agreed to sell the Sale Shares (as defined hereinafter) to the Selected Bidder and the Selected Bidder has agreed to purchase the Sale Shares from the Shares Seller, subject to and on the terms and conditions set forth in this Agreement.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL COVENANTS AND AGREEMENTS SET FORTH IN THIS AGREEMENT AND FOR OTHER GOOD AND VALUABLE CONSIDERATION, THE PARTIES HEREBY AGREE AS FOLLOWS:

1. DEFINITIONS

1.1 Capitalised terms in this Agreement, unless defined in this Agreement shall, in so far as the context admits, have the same meaning in this Agreement as has been ascribed to them in the Transmission Service Agreement.

1.2 Additionally, the following terms shall have the meaning hereinafter respectively assigned to them herein below:

(i) **"Acquisition Price"** shall mean **INR 20,93,72,682 (Indian Rupees Twenty Crore Ninety Three Lakh Seventy Two Thousand Six Hundred Eighty-Two Only)**, which is the aggregate consideration payable by the Selected Bidder towards purchase of the **Sale Shares at par** along with assets and liabilities of the Company as on the Closing Date subject to adjustment as per the audited accounts of the Company as on the Closing Date;

(ii) **"Agreement"** or **"the Agreement"** or **"this Agreement"** shall mean this Share Purchase Agreement and shall include the recitals and/or annexures attached hereto, and the contracts, certificates, disclosures and other documents to be executed and delivered pursuant hereto, if any, and any amendments made to this Agreement by Parties in writing;

(iii) **"Bid Process"** shall mean the competitive bidding process initiated by the BPC, by issuance of RFP Documents for selecting a Successful Bidder to build, own, operate and transfer the Project in accordance with and on the terms and conditions mentioned in the RFP Project Documents;

(iv) **"Board"** shall mean the board of directors of the Company

(v) **"Closing Date"** shall mean a mutually agreed date between the Parties falling within the period as mentioned in Clause 2.15.2 of RFP or on failure of such mutual agreement between the Parties shall be the date falling on the last date of such period;

(vi) **"CTU"** or **"Central Transmission Utility of India Limited"** shall have same meaning as defined in the Electricity Act, 2003;

(vii) **"Encumbrance"** shall mean any mortgage, pledge, lien, charge, security assignment, hypothecation, trust, encumbrance or any other agreement having the effect of creating security interest;

(viii) **"Letter of Intent"** shall have the meaning ascribed thereto under the RFP;

(ix) **"Nominees"** shall mean the Persons, who are named in Annexure A, holding the Sale Shares as nominees of PFCCL.

(x) **"Party"** shall mean PFCCL, Company and the Selected Bidder, referred to individually, and **"Parties"** shall mean PFCCL, Company and the Selected Bidder collectively referred to, as relevant;

(xi) **"Person"** shall include an individual, an association, a corporation, a partnership, a joint venture, a trust, an unincorporated organisation, a joint stock company or other entity or organisation, including a government or political subdivision, or an agency or instrumentality thereof, and/or any other legal entity;

PFC CONSULTING LIMITED NEW DELHI

KURNOOL IV REZ POWER TRANSMISSION LTD. NEW DELHI

RESONIA LIMITED

(xii) **"RFP Project Documents"** shall mean the following documents, referred to collectively:

a) Transmission Services Agreement;

b) this Agreement; and

c) Any other agreement(s) as may be required.

(xiii) **"Representations and Warranties"** shall mean the representations and warranties mentioned in **Clause 4** hereto;

(xiv) **"Sale Shares"** shall mean 10,000 (Ten Thousand) Shares, representing 100 percent of the total issued, subscribed and fully paid-up equity share capital of the Company held by the Shares Seller and Nominees as more particularly described in Annexure A attached hereto;

(xv) **"Shares"** shall mean the fully paid-up equity shares of Company, of face value Rs. 10 each;

(xvi) **"Shares Seller"** shall mean PFCCL;

(xvii) **"Transmission Services Agreement"** or **"TSA"** means the agreement titled 'Transmission Services Agreement' dated 29th May 2026 entered into between Central Transmission Utility of India Limited and the TSP pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project to Central Transmission Utility of India Limited on a commercial basis, as may be amended from time to time;

(xviii) **Transmission Service Provider" or "TSP"** shall mean **Kurnool IV REZ Power Transmission Limited** which has executed the Transmission Service Agreement and which shall be acquired by the Selected Bidder.

1.3 Interpretation Clause

Unless the context otherwise requires, the provisions of the TSA relating to the interpretation of the TSA shall apply to this Agreement as if they were set out in full in this Agreement and to this end are incorporated herein by reference.

2. TRANSFER OF SHARES

2.1 Subject to the terms and conditions of this Agreement, the Shares Seller agrees to sell and transfer to the Selected Bidder and the Selected Bidder hereby agrees to purchase

PFC CONSULTING LIMITED NEW DELHI PFCCL

KURNOOL IV REZ POWER TRANSMISSION LTD. NEW DELHI KPTL

RESONIA LIMITED RESONIA

from the Shares Seller, the Sale Shares of the Company free from Encumbrances with rights and benefits attached thereto in consideration of the Acquisition Price and the covenants, undertakings and the agreements of the Selected Bidder contained in this Agreement.

2.2 The Shares Seller hereby undertakes to cause the Nominees to transfer part of the Sale Shares held by them as Nominees of the Shares Seller to the Selected Bidder and execute any documents required to deliver good title to the Sale Shares to the Selected Bidder.

3. CLOSING

3.1 Prior to the Closing Date, the Selected Bidder shall provide to the Shares Seller, valid share transfer forms ("Share Transfer Forms") duly stamped with requisite amount of stamp duty payable on the transfer of Sale Shares.

3.2 On the Closing Date, the Shares Seller shall hand over to the Selected Bidder or its authorised representative, the original share certificates representing the Sale Shares ("Sale Share Certificates") along with the Share Transfer Forms duly executed by the Shares Seller and the Nominees in favour of the Selected Bidder, simultaneously against the Selected Bidder handing over to the Shares Seller demand drafts drawn in favour of the Shares Seller for the Acquisition Price payable to it.

Provided that prior to the handing over of the Sale Share Certificates to the Selected Bidder as mentioned above, the Selected Bidder shall provide satisfactory evidence to PFCCL that on or before the Closing Date, the Selected Bidder has furnished the Performance Bank Guarantee to Central Transmission Utility of India Limited and is in a position to comply with all other requirements of Clause 2.15.2 of the RFP.

3.3 The Selected Bidder shall immediately upon receiving the Sale Share Certificates and the Share Transfer Forms, duly execute the Share Transfer Forms and duly lodge the Share Transfer Forms and the Sale Share Certificates with the Company. The Selected Bidder may also propose the names of its nominees to be appointed on the Board of the Company and the address within the State of Delhi, which would be the new registered office of the Company. The Company shall, upon receipt of the said documents from the Selected Bidder, do the following:

(i) On the Closing Date, convenes a meeting of the Board, wherein the Board shall pass the following necessary resolutions:

(a) approving the transfer of the Shares constituting the Sale Shares from the Shares Seller and the Nominees to the name of Resonia Limited *(formerly known as Sterlite Grid 32 Limited)* and its nominees as detailed hereunder and transfer all assets and liabilities of the Company as on Closing date:

S. No.	Name of Transferor	Name of Transferee	No. of shares
1.	PFC Consulting Limited ("**PFCCL**")	Resonia Limited ("**Resonia**") *(formerly Sterlite Grid 32 Limited)*	9400
2.	Shri Rakesh Mohan (Nominee of PFCCL)	Mr. Ashok Ganesan (Nominee of Resonia)	100
3.	Shri Neeraj Singh (Nominee of PFCCL)	Ms. Shilpi Rungta (Nominee of Resonia)	100
4.	Shri Sanjay Kumar Nayak (Nominee of PFCCL)	Ms. Upasna (Nominee of Resonia)	100
5.	Shri Sachin Shukla (Nominee of PFCCL)	Ms. Nikita Gupta (Nominee of Resonia)	100
6.	Shri Rishab Jain (Nominee of PFCCL)	Mr. Pradeep Sand (Nominee of Resonia)	100
7.	Shri Naveen Kumar (Nominee of PFCCL)	Mr. Vikas Bhatia (Nominee of Resonia)	100
Total			**10,000**

(b) approving **Resonia Limited** *(formerly known as Sterlite Grid 32 Limited)* **and its nominees** as the members of the Company and entering the name of Resonia Limited *(formerly known as Sterlite Grid 32 Limited)* and its nominees in the register of members.

(c) changing the address of the registered office of the Company to the new address, within the State of Delhi, as may be provided by the Selected Bidder.

(d) appointing the following nominee Directors of the Selected Bidder on the Board and accepting the resignations of the other existing Directors on the Board and the Chair of the meeting which was taken by one of the existing

PFCCL KPTL

Directors shall be vacated and appointment of a new Chairman who shall be one of the newly appointed Director, for the rest of the meeting:

- **Shri Prakash Singh (DIN: 10929893)**
- **Mr. Sandip Maity (DIN: 10862280)**
- **Ms. Upma Meena (DIN: 10240282)**

(e) Pursuant to the acceptance of resignation of the existing Directors and appointment of new Chairman, the newly constituted Board of Directors shall hold the meeting and pass the following resolution:

a. terminating all the authorizations granted regarding the business and/or operations of the Company or the operations of the bank accounts of the Company, with prospective effect; and

b. acknowledging and accepting the terms and conditions as contained in the executed copies of the RFP Project Documents and to abide by the provisions contained therein.

(ii) Enter the name of Resonia Limited (formerly known as Sterlite Grid 32 Limited) and its nominees as the legal and beneficial owner of the Sale Shares, free of all Encumbrances, in the register of members of the Company;

(iii) Make the necessary endorsements on the Sale Share Certificates, indicating the name of the Resonia Limited (formerly known as Sterlite Grid 32 Limited) and its nominees as the legal and beneficial owner of the Sale Shares evidenced there under;

(iv) Return the original Sale Share Certificates, duly endorsed in the name of Resonia Limited *(formerly known as Sterlite Grid 32 Limited)* and its nominees, to Resonia Limited *(formerly known as Sterlite Grid 32 Limited)* and its nominees, as the case may be or its authorized representative;

(v) Handover all the statutory registers and records, if any, of the Company to the Selected Bidder.

(vi) Handover certified true copies of the Board resolution passed by the Company as per (i)(a) to (i)(d) of Clause 3.3 (i) to Central Transmission Utility of India Limited.

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3.4 The Parties to this Agreement agree to take all measures that may be required to ensure that all the events contemplated in the **Clauses 3.1 to 3.3** above on the Closing Date are completed on the same day.

Notwithstanding the provisions of **Clause 3.3** hereto, all proceedings to be taken and all documents to be executed and delivered by the Parties at the Closing Date shall be deemed to have been taken and executed simultaneously and no proceedings shall be deemed to have been taken nor documents executed or delivered until all have been taken, executed and delivered.

3.5 The Selected Bidder hereby acknowledges and agrees that after the date of acquisition of one hundred percent (100%) of the equity shareholding of the Company, by the Selected Bidder as per Clause 3.3, (a) the authority, rights and obligations of the PFCCL/Company in respect of the Bid Process shall forthwith cease and any actions to be taken thereafter regarding the Bid Process will be undertaken by Central Transmission Utility of India Limited themselves or through their any other authorized representative(s), (b) all rights and obligations of the PFCCL/Company shall be of the Selected Bidder and (c) any decisions taken by the PFCCL/Company prior to the date of its acquisition by the Selected Bidder shall continue to be binding on the Selected Bidder. The Parties hereby agree that this provision shall survive the termination of this Agreement.

3.6 This agreement shall be effective from the date of its signing by the Parties and shall remain in force until all the obligations of the respective Parties under Clause 3.3 hereto are fulfilled.

4. REPRESENTATIONS AND WARRANTIES

4.1 The Selected Bidder hereby represents and warrants to the Shares Seller that:

4.1.1 The Selected Bidder has full legal right, power and authority to enter into, execute and deliver this Agreement and to perform the obligations, undertakings and transactions set forth herein, and this Agreement has been duly and validly executed and delivered by the Selected Bidder and constitutes its legal, valid and binding obligations, enforceable against it in accordance with its terms;

4.1.2 The execution, delivery and performance of this Agreement by the Selected Bidder (i) will not violate or contravene any provision of the Memorandum of Association or Articles of the Selected Bidder, (ii) will not violate or contravene

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any law, statute, rule, regulation, licensing requirement, order, writ, injunction or decree of any court, governmental instrumentality or other regulatory, governmental or public body, agency or authority by which the Selected Bidder are bound or by which any of its and/or their properties or assets are bound, and (iii) except to the extent that the same have been duly and properly completed or obtained, will not require any filing with, or permit, consent or approval of or license from, or the giving of any notice to, any court, governmental instrumentality or other regulatory, governmental or public body, agency or authority, joint venture party, or any other entity or person whatsoever; and

4.1.3 The Selected Bidder is not restricted in any manner whatsoever, including without limitation, on account of any judicial or government order, action or proceeding, or any contractual obligation assumed by the Selected Bidder, from purchasing the Sale Shares from the Shares Seller in the manner provided for in this Agreement.

4.2 The Shares Seller hereby represents and warrants to the Selected Bidder that;

4.2.1 The Shares Seller and the Nominees are the legal and beneficial owners of the Sale Shares, free and clear of any Encumbrance and the delivery to the Selected Bidder of the Sale Shares pursuant to the provisions of this Agreement will transfer to the Selected Bidder a good title to the Sale Shares.

4.2.2 The Shares Seller has full legal right, power and authority to enter into, execute and deliver this Agreement and to perform the obligations, undertakings and transactions set forth herein. The execution, delivery and performance of this Agreement will not violate the Memorandum and Articles of Association of the Shares Seller or contravene any contract by which it is bound.

4.2.3 The Shares Seller has obtained requisite authorizations to sell and transfer the Sale Shares to the Selected Bidder. The Shares Seller also represent that it is not prevented from transferring and selling the Sale Shares. Also, to the best of its knowledge, the Sale Shares are not the subject matter of any claim or pending proceeding or threatened by any legal proceeding made by any third party.

4.3 Except as specified in Clause 4.2, above the Shares Seller shall not be deemed to have, made any representation or warranty whatsoever, whether express or implied, in relation

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to the Sale Shares or Company, including but not limited to any implied warranty or representation as to the business or affairs of the Company.

4.4 The Representations and Warranties are given as at the date of this Agreement except that where a Representation and Warranty is expressed to be made as at another date, the Representation and Warranty is given with respect to that date only.

4.5 Each Representation and Warranty is to be construed independently of the others and is not limited by reference to any other Warranty. The Representations, Warranties and undertakings contained in this Clause 4 hereto or in any document delivered pursuant to or in connection with this Agreement are continuing in nature and shall survive the Closing Date for one (1) year.

4.6 The Parties represent to each other that all Representations and Warranties provided herein by the respective Party shall be true as of Closing Date.

5. OBLIGATIONS OF THE SELECTED BIDDER

The Selected Bidder agrees that the Shares Seller shall not be liable in any manner, nor shall it assume any responsibility or liability whatsoever, in respect of the business of the Company and its operations or activities, arising after Closing Date, to any Person or any authority, central, state, local or municipal or otherwise and the same shall be the sole responsibility of the Selected Bidder.

6. MISCELLANEOUS

6.1 NOTICES

a) All notices to be given under this Agreement shall be in writing and in the English language.

b) All notices must be delivered personally or by registered or speed post or by recognised courier to the addresses below:

Selected Bidder (Lead Member in case of Consortium)	**Resonia Limited** *(formerly known as Sterlite Grid 32 Limited)* RMZ Infinity, 5th Floor, Plot No. 15, Phase IV, Udyog Vihar, Palam Road, Gurugram, Haryana, 122015
Name of the Holding Company of the SPV	**PFC Consulting Limited** First Floor, "Urjanidhi", 1 Barakhamba Lane, Connaught Place, New Delhi - 110001

Company (Before Closing Date)	**Project In-charge** **Kurnool IV REZ Power Transmission Limited** First Floor, "Urjanidhi", 1 Barakhamba Lane, Connaught Place, New Delhi - 110001
Company (After Closing Date)	**Kurnool IV REZ Power Transmission Limited** RMZ Infinity, 5th Floor, Plot No. 15, Phase IV, Udyog Vihar, Palam Road, Gurugram, Haryana, 122015

c) Any Party may by notice of at least fifteen (15) days to the other Parties change the address and / or addresses to which such notices and communications to it are to be delivered or mailed.

6.2 RESOLUTION OF DISPUTES

6.2.1 If any dispute arises between the Parties, in connection with the validity, interpretation, implementation or alleged breach of any provision of this Agreement ("Dispute"), the disputing Parties hereto shall endeavour to settle such Dispute amicably. The attempt to bring about an amicable settlement shall be considered to have failed if not resolved within 60 days from the date of the Dispute.

6.2.2 If the Parties are unable to amicably settle the Dispute in accordance with Clause 6.2.1 within the period specified therein, any of the Parties shall be entitled to within 30 days after expiry of the aforesaid period, refer the Dispute to the Company Secretary of PFCCL and Chief Executive/ Managing Director of the Selected Bidder for resolution of the said Dispute. The attempt to bring about such resolution shall be considered to have failed if not resolved within 30 days from the date of receipt of a written notification in this regard.

6.2.3 In the event the Dispute is not settled in accordance with Clause 6.2.2 above, any Party to the Dispute shall be entitled to serve a notice invoking this Clause and making a reference to a sole arbitrator. If the Parties to the Dispute cannot agree as to the appointment of the sole arbitrator within 30 days of receipt of the notice of the Party making the reference, then the Shares Seller along with the Company shall appoint one arbitrator and the Selected Bidder shall appoint one arbitrator and the two arbitrators, so appointed shall appoint a third arbitrator. However, after the Closing Date, in such an event the Shares Seller shall appoint one arbitrator and the Selected Bidder along with the Company shall appoint one arbitrator and the two arbitrators, so appointed shall appoint the third arbitrator.

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6.2.4 The place of the arbitration shall be New Delhi. The Arbitration proceedings shall be governed by the Arbitration and Conciliation Act, 1996.

6.2.5 The proceedings of arbitration shall be in English language.

6.2.6 The arbitrator's award shall be substantiated in writing. The arbitrators shall also decide on the costs of the arbitration proceedings. In case the arbitrators have not decided on the costs of the arbitration proceedings, each Party to the Dispute shall bear its own costs, in relation to the arbitration proceedings.

6.3 AUTHORISED PERSON

For the purposes of this Agreement, the Selected Bidder is represented by **Mr. Prashant Sinha, Whole-time Director and CEO, Ms. Pooja Khanna - Chief Financial Officer, Ms. Upasna - Company Secretary and/ or Mr. Amarendranath Tatimakula Reddy, and/or Mr. Ashok Ganesan, and/or Mr. Tushar Chhabra and/or Mr. Chandan Dutt, the Authorized Representatives,** pursuant to an authorization granted to the above authorized representatives through necessary Board resolutions. Further, the above authorized representatives are also severally authorized by such resolutions to take any decision which may be required to be taken, do all acts and execute all documents which are or may be required by the Selected Bidder for the proper and effective fulfillment of the rights and obligations under this Agreement. Any action taken or document executed by the above authorized representatives shall be deemed to be acts done or documents executed by the Selected Bidder and shall be binding on the Selected Bidder.

6.4 RESERVATION OF RIGHTS

No forbearance, indulgence or relaxation or inaction by any Party at any time to require performance of any of the provisions of this Agreement shall in any way affect, diminish or prejudice the right of such Party to require performance of that provision, and any waiver or acquiescence by any Party of any breach of any of the provisions of this Agreement shall not be construed as a waiver or acquiescence of any continuing or succeeding breach of such provisions, a waiver of any right under or arising out of this Agreement or acquiescence to or recognition of rights other than that expressly stipulated in this Agreement.

6.5 CUMULATIVE RIGHTS

All remedies of either Party under this Agreement whether provided herein or conferred by statute, civil law, common law, custom or trade usage, are cumulative and not alternative and may be enforced successively or concurrently.

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RAJPURA DHULIYA REZ POWER TRANSMISSION LTD. NEW DELHI

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6.6 PARTIAL INVALIDITY

If any provision of this Agreement or the application thereof to any person or circumstance shall be invalid or unenforceable to any extent, the remainder of this Agreement and the application of such provision to persons or circumstances other than those as to which it is held invalid or unenforceable shall not be affected thereby, and each provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law. Any invalid or unenforceable provision of this Agreement shall be replaced with a provision, which is valid and enforceable and most nearly reflects the original intent of the unenforceable provision.

6.7 TERMINATION

If (i) the Closing does not occur on the Closing Date for any reason whatsoever, or (ii) the Letter of Intent is withdrawn or terminated for any reason, or (iii) due to termination of the TSA by Central Transmission Utility of India Limited in accordance with Article 3.3.2 or Article 13 of the TSA thereof, PFCCL shall have a right to terminate this Agreement forthwith by giving a written notice to the other Parties hereto.

6.8 AMENDMENTS

No modification or amendment of this Agreement and no waiver of any of the terms or conditions hereof shall be valid or binding unless made in writing and duly executed by all the Parties.

6.9 ASSIGNMENT

This Agreement and the rights and liabilities hereunder shall bind and inure to the benefit of the respective successors of the Parties hereto, but no Party hereto shall assign or transfer its rights and liabilities hereunder to any other Person without the prior written consent of the other Parties, which will not be unreasonably withheld.

6.10 ENTIRE AGREEMENT

This Agreement constitutes the entire Agreement between the Parties with respect to the subject matter herein and supersedes and cancels any prior oral or written agreement, representation, understanding, arrangement, communication or expression of intent relating to the subject matter of this Agreement.

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6.11 COSTS

Each of the Parties hereto shall pay their own costs and expenses relating to the negotiation, preparation and execution of this Agreement and the transactions contemplated by this Agreement.

The Selected Bidder shall be liable to bear and pay the stamp duty and other costs in respect of this Agreement and the Share Transfer Forms.

6.12 RELATIONSHIP

None of the provisions of this Agreement shall be deemed to constitute a partnership between the Parties hereto and no Party shall have any authority to bind the other Party otherwise than under this Agreement or shall be deemed to be the agent of the other in any way.

6.13 GOVERNING LAW AND JURISDICTION

This Agreement shall be governed by and construed in accordance with the laws of India and shall be subject to the exclusive jurisdiction of the courts of Delhi.

6.14 COUNTERPARTS

This Agreement may be executed in counterparts by the Parties and each fully executed counterpart shall be deemed to be original.

6.15 CONFIDENTIALITY

The Parties undertake to hold in confidence and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

(a) to their professional advisors;
(b) to their officers, employees, agents or representatives, who need to have access to such information for the proper performance of their activities;
(c) disclosures required under Law;

without the prior written consent of the other Parties.

Provided that Central Transmission Utility of India Limited and PFCCL may at any time, disclose the terms and conditions of transactions contemplated hereby to any person, to the extent stipulated under the law or the Bidding Guidelines.

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RESONIA

6.16 INDEMNIFICATION

- The Parties hereby agree that transfer of Sale Shares to the Selected Bidder shall vest all the rights, privileges, licenses, responsibilities, liabilities and other obligations pertaining to the Company in the Selected Bidder.

- The Selected Bidder hereby agrees that the Selected Bidder shall not be entitled to any claims or initiate any legal proceedings, by itself or through the Transmission Service Provider against the Share Sellers, its directors, officers, employees and the subscribers including the members of any committees appointed by them in respect of any actions or decisions taken by any of them up to the Closing Date in furtherance of the Project referred to in recital A of this Agreement.

- Further, the Selected Bidder hereby indemnifies and holds harmless at all times the Share Seller against all losses, damages, charges, and expenses which the Share Seller may sustain or incur towards contractual obligations with respect to the contracts awarded by the Share Seller or any other liability arising with regard to any action/ activity undertaken by the Share Seller for and on behalf of the Company in furtherance of the Project referred to above or otherwise concerning the Company. All such actions shall be defended by the Selected Bidder either itself or through the TSP at its own cost.

- The Parties hereby agree that the provisions of this clause shall survive the termination of this Agreement.

IN WITNESS WHEREOF, THE PARTIES HERETO HAVE CAUSED THIS AGREEMENT TO BE DULY EXECUTED AND DELIVERED AS OF THE DAY AND YEAR FIRST ABOVE WRITTEN

SIGNED AND DELIVERED
BY THE WITHIN NAMED "**PFCCL**", **PFC CONSULTING LIMITED**
BY THE HAND OF **SHRI SACHIN ARORA, COMPANY SECRETARY**

PURSUANT TO THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS ON **30TH MARCH, 2026**

IN THE PRESENCE OF:
WITNESS: SUMAN KUMAR
NAME, SIGNATURE, DESIGNATION AND ADDRESS:

PFC CONSULTING LIMITED NEW DELHI PFCCL

KURNOOL IV REZ POWER TRANSMISSION LTD NEW DELHI KPRL

RESONIA LIMITED

SIGNED AND DELIVERED
BY THE WITHIN NAMED **"KURNOOL IV REZ POWER TRANSMISSION LIMITED"**
BY THE HAND OF **NEERAJ SINGH, CHAIRMAN**

PURSUANT TO THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS ON **30TH MARCH, 2026**

IN THE PRESENCE OF:
WITNESS: Bakshi Nautiyal
NAME, SIGNATURE, DESIGNATION AND ADDRESS:

SIGNED AND DELIVERED
BY THE WITHIN NAMED **"RESONIA LIMITED *(FORMERLY KNOWN AS STERLITE GRID 32 LIMITED)*"**
BY THE HAND OF **SHRI AMARENDRANATH TATIMAKULA REDDY**

PURSUANT TO THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS ON **15TH APRIL, 2026**

IN THE PRESENCE OF:
WITNESS: Chandan Dutt (AVP)
NAME, SIGNATURE, DESIGNATION AND ADDRESS:

PFC CONSULTING LIMITED NEW DELHI

KURNOOL IV REZ POWER TRANSMISSION LTD. NEW DELHI

RESONIA LIMITED

ANNEXURE A

DESCRIPTION OF THE SALE SHARES

S. NO.	NAME OF THE SHAREHOLDER	NUMBER OF EQUITY SHARES HELD	PERCENTAGE OF THE TOTAL PAID UP EQUITY CAPITAL
1.	PFC Consulting Limited ("PFCCL")	9400	94%
2.	Shri Rakesh Mohan*	100	1%
3.	Shri Neeraj Singh*	100	1%
4.	Shri Sanjay Kumar Nayak*	100	1%
5.	Shri Sachin Shukla*	100	1%
6.	Shri Rishab Jain*	100	1%
7.	Shri Naveen Kumar*	100	1%
	Total	**10,000**	**100%**

**Nominee(s) of PFCCL*

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RESONIA LIMITED

TRANSMISSION SERVICE AGREEMENT

FOR

DEVELOPMENT AND OPERATION OF INTER-STATE TRANSMISSION SYSTEM

FOR TRANSMISSION OF ELECTRICITY THROUGH TARIFF BASED COMPETITIVE BIDDING FOR

TRANSMISSION SYSTEM FOR KURNOOL-IV REZ - PHASE-II (3 GW)

BETWEEN

CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED

(NODAL AGENCY)

AND

KURNOOL IV REZ POWER TRANSMISSION LIMITED

29th May, 2026

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

KURNOOL IV REZ POWER TRANSMISSION LIMITED

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Bond

Indian-Non Judicial Stamp
Haryana Government

Date : 27/05/2026

Certificate No. G0272026E6951

GRN No. 152495139

Stamp Duty Paid : ₹ 500
(Rs. Only)

Penalty : ₹ 0
(Rs. Zero Only)

Deponent

Name : Central Transmission utility of india Ltd

H.No/Floor : 2 Sector/Ward : 29 Landmark : Na

City/Village : Gurugram District : Gurugram State : Haryana

Phone : 96******36

Purpose : ARTICLE 5 GENERAL AGREEMENT **to be submitted at Concerned office**

The authenticity of this document can be verified by scanning this QrCode Through smart phone or on the website https://egrashry.nic.in

This Stamp Paper forms an integral part of Transmission Service Agreement dated 29th May 2026

KURNOOL IV REZ POWER TRANSMISSION LIMITED

Bond

Indian-Non Judicial Stamp
Transmission Service Agreement
Haryana Government

1043

Date : 28/04/2026

Certificate No. G0282026D5315

GRN No. 151015760

Stamp Duty Paid : ₹ 101
(Rs. Only)

Penalty : ₹ 0
(Rs. Zero Only)

Deponent

Name : Central transmission Utility of india ltd
H.No/Floor : 2 Sector/Ward : 29 Landmark : Na
City/Village : Gurugram District : Gurugram State : Haryana
Phone : 98******10

Purpose : Article 5 General Agreement **to be submitted at Concerned office**

The authenticity of this document can be verified by scanning this QrCode Through smart phone or on the website https://egrashry.nic.in

THIS TRANSMISISON SERVICE AGREEMENT (hereinafter referred to as "TSA" or "Agreement" or "the Agreement" or "this Agreement") is made on the 29th [Insert day] of May [Insert month] of Two Thousand and Twenty Six.

BETWEEN:

The **CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED**, a company incorporated under the Companies Act, 2013, having its registered office at **Plot No.2, Sector 29, Gurugram, Haryana 122001, India** & Correspondence address at **Floor No. S-10, Tower 1, Plot No. 16, IRCON International Tower, Institutional Area, Sector 32, Gurugram, Haryana – 122001, India** (hereinafter referred to as "Nodal Agency/CTU" which expression shall unless repugnant to the context or meaning thereof include its successors and assigns) as party of the one part;

AND

KURNOOL IV REZ POWER TRANSMISSION LIMITED incorporated under the Companies Act, 1956/Companies Act, 2013 (as the case may be), having its registered office at **1st Floor, Urjanidhi, 1, Barakhamba Lane, Connaught Place, New Delhi-110001** (herein after referred to as "Transmission Service Provider" or "TSP" or "ISTS Licensee", which expression shall unless repugnant to the context or meaning thereof include its successors, and permitted assigns) as Party of the other part;

("Nodal Agency" and "TSP" are individually referred to as "Party" and collectively as the "Parties")

AND WHEREAS:

A) In accordance with the Bidding Guidelines, the Bid Process Coordinator (hereinafter referred to as BPC) had initiated a competitive e-reverse bidding process through issue of RFP for selecting a Successful Bidder to build, own, operate and transfer the Project comprising of the Elements mentioned in Schedule 1 (hereinafter referred to as the Project)

B) Pursuant to the said e-reverse bidding process, the BPC has identified the Successful Bidder, who will be responsible to set up the Project on build, own, operate and transfer basis to provide Transmission Service in accordance with the terms of this Agreement and the Transmission License.

C) The Selected Bidder have submitted the Contract Performance Guarantee and acquired one hundred percent (100%) of the equity shareholding of **KURNOOL IV REZ POWER TRANSMISSION LIMITED**, along with all its related assets and liabilities in terms of the provisions of the Share Purchase Agreement.

D) The TSP has agreed to make an application for a Transmission License to the Commission for setting up the Project on build, own, operate and transfer basis.

E) The TSP has further agreed to make an application to the Commission for the adoption of the Transmission Charges under Section 63 of the Electricity Act, 2003, along with a certification from the Bid Evaluation Committee in accordance with the Bidding Guidelines issued by Ministry of Power, Government of India.

F) The TSP has agreed to execute the agreement(s) required, if any, under Sharing Regulations within fifteen (15) days from the date of grant of Transmission License from the Commission.

G) The TSP agrees to the terms and conditions laid down under Sharing Regulations, for making available the ISTS and charge the Transmission Charges in accordance with the terms and conditions of Sharing Regulations.

H) The billing, collection and disbursement of the Transmission Charges by the CTU to the ISTS Licensee shall be governed as per Sharing Regulations.

I) The terms and conditions stipulated in the Transmission License issued by the Commission to the TSP shall be applicable to this Agreement and the TSP agrees to comply with these terms and conditions. In case of inconsistency between the Transmission License terms & conditions and the conditions of this Agreement, the conditions stipulated in the Transmission License granted by the Commission shall prevail.

NOW, THEREFORE, IN CONSIDERATION OF THE PREMISES AND MUTUAL AGREEMENTS, COVENANTS AND CONDITIONS SET FORTH HEREIN, IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

ARTICLE: 1

1. DEFINITIONS AND INTERPRETATIONS

1.1 Definitions:

1.1.1 The words / expressions used in this Agreement, unless as defined below or repugnant to the context, shall have the same meaning as assigned to them by the Electricity Act, 2003 and the rules or regulations framed there under including those issued / framed by the Commission (as defined hereunder), as amended or re-enacted from time to time or the General Clauses Act, failing which it shall bear its ordinary English meaning.

The words/expressions when used in this Agreement shall have the respective meanings as specified below:

"Acquisition Price" shall have the same meaning as defined in the Share Purchase Agreement;

"Act" or **"Electricity Act"** or **"Electricity Act 2003"** shall mean the Electricity Act, 2003 and any amendments made to the same or any succeeding enactment thereof;

"Affiliate" shall mean a company that either directly or indirectly

i. controls or

ii. is controlled by or

iii. is under common control with

a Bidding Company (in the case of a single company) or a Member (in the case of a Consortium) and "**control**" means ownership by one entity of at least twenty six percent (26%) of the voting rights of the other entity;

"Availability" in relation to the Project or in relation to any Element of the Project, for a given period shall mean the time in hours during that period the Project is capable to transmit electricity at its Rated Voltage and shall be expressed in percentage of total hours in the given period and shall be calculated as per the procedure contained in **Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024**, attached herewith in Schedule 6;

"Bid" shall mean technical bid and financial bid submitted by the Bidder, in response to the RFP, in accordance with the terms and conditions of the RFP;

"Bid Deadline" shall mean the last date and time for submission of the Bid in response to RFP, as specified in the RFP;

"Bidding Company" shall refer to such single company that has made a Response to RFP for the Project;

"Bidding Consortium / Consortium" shall refer to a group of companies that has collectively made a Response to RFP for the Project;

"Bid Documents" or **"Bidding Documents"** shall mean the RFP, along with all attachments thereto or clarifications thereof;

"Bidding Guidelines" shall mean the "Tariff Based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power under Section – 63 of the Electricity Act as amended from time to time;

"Bid Process Coordinator" or **"BPC"** shall mean a person or its authorized representative as notified by the Government of India, responsible for carrying out the process for selection of Bidder who will acquire Transmission Service Provider;

"Bill" shall mean any bill raised by the CTU on the DICs to recover the Transmission Charges pursuant to the Sharing Regulations;

"Business Day" shall mean a day other than Sunday or a statutory holiday, on which the banks remain open for business in the State in which the Nodal Agency's registered office is located and the concerned TSP are located;

"CEA" shall mean the Central Electricity Authority constituted under Section -70 of the Electricity Act;

"Change in law" shall have the meaning ascribed thereto in Article 12;

"Commercial Operation Date" or **"COD"** shall mean the date as per Article 6.2;

"Commission" or **"CERC"** shall mean the Central Electricity Regulatory Commission referred to in sub-section (1) of Section 76 of the Electricity Act, 2003 or its successors and assigns;

"Competent Court of Law" shall mean the Supreme Court or any High Court, or any tribunal or any similar judicial or quasi-judicial body in India that has jurisdiction to adjudicate upon issues relating to the Project;

"Connection Agreement" shall mean the agreement between the CTU or STU or any other concerned parties and the TSP, setting out the terms relating to the

connection of the Project to the Inter-connection Facilities and use of the Inter State Transmission System as per the provisions of the IEGC, as the case may be;

"Consultation Period" shall mean the period of sixty (60) days or such longer period as the Parties may agree, commencing from the date of issue of a TSP's Preliminary Notice or a Nodal Agency's Preliminary Termination Notice, as provided in Article 13 of this Agreement, for consultation between the Parties to mitigate the consequence of the relevant event having regard to all the circumstances;

"Consents, Clearances and Permits" shall mean all authorizations, licenses, approvals, registrations, permits, waivers, privileges, acknowledgements, agreements, or concessions required to be obtained from or provided by any concerned authority for the development, execution and operation of Project including without any limitation for the construction, ownership, operation and maintenance of the Transmission Lines and/or sub-stations;

"Construction Period" shall mean the period from (and including) the Effective Date of the Transmission Service Agreement up to (but not including) the COD of the Element of the Project in relation to an Element and up to (but not including) the COD of the Project in relation to the Project;

"Contractors" shall mean the engineering, procurement, construction, operation & maintenance contractors, surveyors, advisors, consultants, designers, suppliers to the TSP and each of their respective sub-contractors (and each of their respective successors and permitted assigns) in their respective capacities as such;

"Contract Performance Guarantee" Contract Performance Guarantee" shall mean the irrevocable unconditional bank guarantee, or insurance surety bond or Payment on Order Instrument submitted and to be submitted by the TSP or by the Selected Bidder on behalf of the TSP to the Nodal Agency from a bank mentioned in Annexure 17 of the RFP, in the form attached here to as Schedule 8 (for bank guarantee) or Schedule-8A (for insurance surety bond issued by any of the insurance companies authorized by Insurance Regulatory and Development Authority of India), or Schedule-8B (for Payment on Order Instrument issued by PFC/REC/IREDA) in accordance with Article 3 of this Agreement and which shall include the additional bank guarantee or insurance surety bond or Payment on Order Instrument furnished by the TSP under this Agreement;

"Contract Year", for the purpose of payment of Transmission Charges, shall mean the period beginning on the COD, and ending on the immediately succeeding March 31 and thereafter each period of 12 months beginning on April 1 and

ending on March 31 provided that the last Contract Year shall end on the last day of the term of the TSA;

"CTU" or **"Central Transmission Utility"** shall have same meaning as defined in the Electricity Act, 2003;

"Day" shall mean a day starting at 0000 hours and ending at 2400 hours;

"D/C" shall mean Double Circuit;

"Designated ISTS Customers" or **"DICs"** shall have the meaning as described in the Sharing Regulations;

"Dispute" shall mean any dispute or difference of any kind between the Parties, in connection with or arising out of this Agreement including any issue on the interpretation and scope of the terms of this Agreement as provided in Article 16;

"Effective Date" for the purposes of this Agreement, shall have the same meaning as per Article 2.1 of this Agreement;

"Electrical Inspector" shall mean a person appointed as such by the Government under sub-section (1) of Section 162 of the Electricity Act 2003 and also includes Chief Electrical Inspector;

"Electricity Rules 2005" shall mean the rules framed pursuant to the Electricity Act 2003 and as amended from time to time;

"Element" shall mean each Transmission Line or each circuit of the Transmission Lines (where there are more than one circuit) or each bay of Sub-station or switching station or HVDC terminal or inverter station of the Project, including ICTs, Reactors, SVC, FSC, etc. forming part of the ISTS, which will be owned, operated and maintained by the concerned ISTS Licensee, and which has a separate Scheduled COD as per Schedule 2 of this Agreement and has a separate percentage for recovery of Transmission Charges on achieving COD as per Schedule 5 of this Agreement;

"Event of Default" shall mean the events as defined in Article 13 of this Agreement;

"Expiry Date" shall be the date which is thirty five (35) years from the COD of the Project;

"Financial Closure" shall mean the first Business Day on which funds are made available to the TSP pursuant to the Financing Agreements;

"Financially Evaluated Entity" shall mean the company which has been evaluated for the satisfaction of the financial requirement set forth in the RFP;

"Financing Agreements" shall mean the agreements pursuant to which the TSP is to finance the Project including the loan agreements, security documents, notes, indentures, security agreements, letters of credit and other documents, as may be amended, modified, or replaced from time to time, but without in anyway increasing the liabilities of the Designated ISTS Customers / Nodal Agency;

"Financial Year" shall mean a period of twelve months at midnight Indian Standard Time (IST) between 1st April & 31st March;

"Force Majeure" and **"Force Majeure Event"** shall have the meaning assigned thereto in Article 11;

"GOI" shall mean Government of India;

"Grid Code" / "IEGC" shall mean the Grid Code specified by the Central Commission under Clause (h) of sub-section (1) of Section 79 of the Electricity Act;

"Independent Engineer" shall mean an agency/ company, appointed by Nodal Agency in accordance with the Guidelines for Encouraging Competition in Development of Transmission Projects.

"Indian Governmental Instrumentality" shall mean Government of India, Government of any State in India or any ministry, department, board, authority, agency, corporation, commission under the direct or indirect control of Government of India or any State Government or both, any political sub-division of any of them including any court or Commission or tribunal or judicial or quasi-judicial body in India but excluding the CTU, TSP and the Designated ISTS Customers;

"Insurances" shall mean the insurance cover to be obtained and maintained by the TSP in accordance with Article 9 of this Agreement;

"Interconnection Facilities" shall mean the facilities as may be set up for transmission of electricity through the use of the Project, on either one or both side of generating station's / CTU's / STU's / ISTS Licensee's / Designated ISTS Customer's substations (as the case may be) which shall include, without limitation, all other transmission lines, gantries, sub-stations and associated equipment's not forming part of the Project;

"ISTS Licensee" shall be the TSP under this Agreement, consequent to having been awarded a Transmission License by the CERC and shall be referred to as the TSP or the ISTS Licensee, as the context may require in this Agreement;

"Law" or "Laws" in relation to this Agreement, shall mean all laws including electricity laws in force in India and any statute, ordinance, rule, regulation, notification, order or code, or any interpretation of any of them by an Indian Governmental Instrumentality having force of law and shall include all rules, regulations, decisions and orders of the Commission;

"Lead Member of the Bidding Consortium" or "Lead Member" shall mean a company who commits at least 26% equity stake in the Project, meets the technical requirement as specified in the RFP and so designated by other Member(s) in Bidding Consortium;

"Lenders" means the banks, financial institutions, multilateral funding agencies, non-banking financial companies registered with the Reserve Bank of India (RBI), insurance companies registered with the Insurance Regulatory & Development Authority (IRDA), pension funds regulated by the Pension Fund Regulatory & Development Authority (PFRDA),mutual funds registered with Securities & Exchange Board of India (SEBI), etc., including their successors and assigns, who have agreed on or before COD of the Project to provide the TSP with the debt financing described in the capital structure schedule, and any successor banks or financial institutions to whom their interests under the Financing Agreements may be transferred or assigned;

Provided that, such assignment or transfer shall not relieve the TSP of its obligations to the Nodal Agency under this Agreement in any manner and shall also does not lead to an increase in the liability of the Nodal Agency;

"Lenders Representative" shall mean the person notified by the Lender(s) in writing as being the representative of the Lender(s) or the Security Trustee and such person may from time to time be replaced by the Lender(s) pursuant to the Financing Agreements by written notice to the TSP;

"Letter of Intent" or **"LOI"** shall have the same meaning as in the RFP;

"Member in a Bidding Consortium / Member" shall mean each company in the Bidding Consortium;

"Month" shall mean a period of thirty (30) days from (and excluding) the date of the event;

"Monthly Transmission Charges" for any Element of the Project, after COD of the Element till COD of the Project, and for the Project after COD of the Project, shall mean the amount of Transmission Charges as specified in Schedule 5 of this Agreement multiplied by no. of days in the relevant month and divided by no. of days in the year;

"National Load Despatch Centre" shall mean the centre established as per sub-section (1) of Section 26 of the Electricity Act 2003;

"Nodal Agency" shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA);

Provided that while taking major decisions, CTU shall consult CEA on technical matters and any other matter it feels necessary.

"Notification" shall mean any notification, issued in the Gazette of India;

"Operating Period" for any Element of the Project shall mean the period from (and including) the COD of such Element of the Project, up to (and including) the Expiry Date and for the Project, shall mean the period from (and including) the COD of the Project, up to (and including) the Expiry Date;

"Parent Company" shall mean an entity that holds at least twenty six percent (26%) of the paid - up equity capital directly or indirectly in the Bidding Company or in the Member in a Bidding Consortium, as the case may be;

"Payment on Order Instrument" shall mean Letter of Undertaking from Indian Renewable Energy Development Agency Limited (IREDA) or Power Finance Corporation Limited (PFC) or REC Limited (REC) [the three non-banking financial institutions under Ministry of New & Renewable Energy (MNRE)/ Ministry of Power (MoP), to pay in case situation of default of Transmission Service Provider (TSP) in terms of tender conditions/Power Purchase Agreement (PPA) arises. Such Letter (s) will have same effect as that of a Bank Guarantee issued by any public any public sector bank. Such "Payment on Order instrument" would have terms and conditions similar to that of any Bank Guarantee given by any public sector bank and would promise to pay the Nodal Agency on demand within stipulated time. TSPs can seek such Letter(s) by offering due security to the above mentioned three non-banking financial institutions mentioned above (IREDA, PFC & REC). Nodal Agency shall not accept the instrument of 'Letter of Undertaking' as described above or in any other form, from any other non-banking financial institutions or bank, except IREDA, PFC & REC.

"Preliminary Termination Notice" shall mean a Nodal Agency's Preliminary Termination Notice as defined in Article 13 of this Agreement;

"Project" shall mean **"Transmission System for Kurnool-IV REZ - Phase-II (3 GW)"**, as detailed in Schedule 1 of this Agreement;

"Project Assets" shall mean all physical and other assets relating to and forming part of the Project including:

(a) rights over the Site for substations, ROW for transmission lines;

(b) tangible & intangible assets such as civil works and equipment including foundations, embankments, pavements, electrical systems, communication systems, relief centres, administrative offices, Sub-stations, software, tower and sub-stations designs etc;

(c) project facilities situated on the Site;

(d) all rights of the TSP under the project agreements;

(e) financial assets, such as receivables, security deposits etc;

(f) insurance proceeds; and

(g) Applicable Permits and authorisations relating to or in respect of the Transmission System;"

"Project Execution Plan" shall mean the plan referred to in Article 3.1.3(c) hereof;

"Prudent Utility Practices" shall mean the practices, methods and standards that are generally accepted internationally from time to time by electric transmission utilities for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of the Project and which practices, methods and standards shall be adjusted as necessary, to take account of:

(i) operation, repair and maintenance guidelines given by the manufacturers to be incorporated in the Project,

(ii) the requirements of Law, and

(iii) the physical conditions at the Site;

(iv) the safety of operating personnel and human beings;

"Rated Voltage" shall mean voltage at which the Transmission System is designed to operate or such lower voltage at which the line is charged, for the time being, in consultation with the Central Transmission Utility;

"Rebate" shall have the meaning as ascribed to in Article 10.3 of this Agreement;

"RFP" shall mean Request For Proposal dated **May 05, 2025** along with all schedules, annexures and RFP Project Documents attached thereto, issued by the BPC for tariff based competitive bidding process for selection of Bidder as TSP to

execute the Project, including any modifications, amendments or alterations thereto;

"RFP Project Documents" shall mean the following documents to be entered into in respect of the Project, by the Parties to the respective agreements:

a. Transmission Service Agreement,

b. Share Purchase Agreement,

c. Agreement(s) required under Sharing Regulations and

d. Any other agreement as may be required;

"RLDC" shall mean the relevant Regional Load Dispatch Centre as defined in the Electricity Act, 2003, in the region(s) in which the Project is located;

"RPC" shall mean the relevant Regional Power Committee established by the Government of India for the specific Region(s) in accordance with the Electricity Act, 2003 for facilitating integrated operation of the Power System in that Region;

"Scheduled COD" in relation to an Element(s) shall mean the date(s) as mentioned in Schedule 2 as against such Element(s) and in relation to the Project, shall mean the date as mentioned in Schedule 2 as against such Project, subject to the provisions of Article 4.4 of this Agreement, or such date as may be mutually agreed among the Parties;

"Scheduled Outage" shall mean the final outage plan as approved by the RPC as per the provisions of the Grid Code;

"Selected Bid" shall mean the technical Bid and the Final Offer of the Selected Bidder submitted during e-reverse bidding, which shall be downloaded and attached in Schedule 7 on or prior to the Effective Date;

"Share Purchase Agreement" shall mean the agreement amongst **PFC Consulting Limited (PFCCL), KURNOOL IV REZ POWER TRANSMISSION LIMITED** and the Successful Bidder for the purchase of one hundred (100%) per cent of the shareholding of the **KURNOOL IV REZ POWER TRANSMISSION LIMITED** for the Acquisition Price, by the Successful Bidder on the terms and conditions as contained therein;

"Sharing Regulations" shall mean the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and as amended from time to time;

"Site" in relation to a substation, switching station or HVDC terminal or inverter station, shall mean the land and other places upon which such station / terminal is to be established;

"SLDC" shall mean the State Load Despatch Centre established as per sub-section (1) of Section 31 of the Electricity Act 2003;

"STU" or **"State Transmission Utility"** shall be the Board or the Government company, specified as such by the State Government under sub-section (1) of Section 39 of the Electricity Act 2003;

"Successful Bidder" or **"Selected Bidder"** shall mean the Bidder selected pursuant to the RFP and who has to acquire one hundred percent (100%) equity shares of **KURNOOL IV REZ POWER TRANSMISSION LIMITED**, along with all its related assets and liabilities, which will be responsible as the TSP to establish the Project on build, own, operate and transfer basis as per the terms of the TSA and other RFP Project Documents;

"TSP's Preliminary Notice" shall mean a notice issued by the TSP in pursuant to the provisions of Article 13.3 of this Agreement;

"Target Availability" shall have the meaning as ascribed hereto in Article 8.2 of this Agreement;

"Technically Evaluated Entity" shall mean the company which has been evaluated for the satisfaction of the technical requirement set forth in RFP;

"Termination Notice" shall mean a Nodal Agency's Termination Notice given by the Nodal Agency to the TSP pursuant to the provisions of Articles 3.3.2, 3.3.4, 4.4.2, 5.8, 13.2 and 13.3 of this Agreement for the termination of this Agreement;

"Term of Agreement" for the purposes of this Agreement shall have the meaning ascribed thereto in Article 2.2 of this Agreement;

"Transmission Charges" shall mean the Final Offer of the Selected Bidder during the e-reverse bidding and adopted by the Commission, payable to the TSP as per Sharing Regulations;

"Transmission License" shall mean the license granted by the Commission in terms of the relevant regulations for grant of such license issued under the Electricity Act;

"Transmission Service" shall mean making the Project available as per the terms and conditions of this Agreement and Sharing Regulations;

"Unscheduled Outage" shall mean an interruption resulting in reduction of the Availability of the Element(s) / Project (as the case may be) that is not a result of a Scheduled Outage or a Force Majeure Event.

"Ultimate Parent Company" shall mean an entity which owns at least twenty six percent (26%) equity in the Bidding Company or Member of a Consortium, (as the case may be) and in the Technically Evaluated Entity and / or Financially Evaluated Entity (as the case may be) and such Bidding Company or Member of a Consortium, (as the case may be) and the Technically Evaluated Entity and / or Financially Evaluated Entity (as the case may be) shall be under the direct control or indirectly under the common control of such entity;

1.2 Interpretation:

Save where the controry is indicoted, ony reference in this Agreement to:

"Agreement" shall be construed as including a reference to its Schedules, Appendices and Annexures;

"Rupee", "Rupees" and **"Rs."** shall denote lawful currency of India;

"crore" shall mean a reference to ten million (10,000,000) and a **"lakh"** shall mean a reference to one tenth of a million (1,00,000);

"encumbrance" shall be construed as a reference to a mortgage, charge, pledge, lien or other encumbrance securing any obligation of any person or any other type of preferential arrangement (including, without limitation, title transfer and retention arrangements) having a similar effect;

"holding company" of a company or corporation shall be construed as a reference to any company or corporation of which the other company or corporation is a subsidiary;

"indebtedness" shall be construed so as to include any obligation (whether incurred as principal or surety) for the payment or repayment of money, whether present or future, actual or contingent;

"person" shall have the meaning as defined in Section 2 (49) of the Act;

"subsidiary" of a company or corporation (the holding company) shall be construed as a reference to any company or corporation:

(i) which is controlled, directly or indirectly, by the holding company, or

(ii) more than half of the issued share capital of which is beneficially owned, directly or indirectly, by the holding company, or

(iii) which is a subsidiary of another subsidiary of the holding company,

for these purposes, a company or corporation shall be treated as being controlled by another if that other company or corporation is able to direct its affairs and/or to control the composition of its board of directors or equivalent body;

"winding-up", **"dissolution"**, **"insolvency"**, or **"reorganization"** in the context of a company or corporation shall have the same meaning as defined in the Companies Act, 1956/ Companies Act, 2013 (as the case may be).

1.2.1 Words importing the singular shall include the plural and vice versa.

1.2.2 This Agreement itself or any other agreement or document shall be construed as a reference to this or to such other agreement or document as it may have been, or may from time to time be, amended, varied, novated, replaced or supplemented.

1.2.3 A Law shall be construed as a reference to such Law including its amendments or re-enactments from time to time.

1.2.4 A time of day shall, save as otherwise provided in any agreement or document be construed as a reference to Indian Standard Time.

1.2.5 Different parts of this Agreement are to be taken as mutually explanatory and supplementary to each other and if there is any inconsistency between or among the parts of this Agreement, they shall be interpreted in a harmonious manner so as to give effect to each part.

1.2.6 The tables of contents and any headings or sub-headings in this Agreement have been inserted for ease of reference only and shall not affect the interpretation of this Agreement.

1.2.7 All interest payable under this Agreement shall accrue from day to day and be calculated on the basis of a year of three hundred and sixty five (365) days.

1.2.8 The words "hereof" or "herein", if and when used in this Agreement shall mean a reference to this Agreement.

1.2.9 The contents of Schedule 7 shall be referred to for ascertaining accuracy and correctness of the representations made by the Selected Bidder in Article 17.2.1 hereof.

ARTICLE: 2

2. EFFECTIVENESS AND TERM OF AGREEMENT

2.1 Effective Date:

This Agreement shall be effective from later of the dates of the following events:

a. The Selected Bidder, on behalf of the TSP, has provided the Contract Performance Guarantee, as per terms of Article 3.1 of this Agreement; and

b. The Selected Bidder has acquired for the Acquisition Price, one hundred percent (100%) of the equity shareholding of **PFC Consulting Limited** in **KURNOOL IV REZ POWER TRANSMISSION LIMITED** along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement. and

c. The Agreement is executed and delivered by the Parties;

2.2 Term and Termination:

2.2.1 Subject to Article 2.2.3 and Article 2.4, this Agreement shall continue to be effective in relation to the Project until the Expiry Date, when it shall automatically terminate.

2.2.2 Post the Expiry Date of this Agreement, the TSP shall ensure transfer of Project Assets to CTU or its successors or an agency as decided by the Central Government at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days of expiry of this Agreement failing which CTU shall be entitled to take over the Project Assets Suo moto.

2.2.3 This Agreement shall terminate before the Expiry Date in accordance with Article 13 or Article 3.3.2 or Article 3.3.4.

2.3 Conditions prior to the expiry of the Transmission License

In order to continue the Project beyond the expiry of the Transmission License, the TSP shall be obligated to make an application to the Commission at least two (2) years before the date of expiry of the Transmission License, seeking the Commission's approval for the extension of the term of the Transmission License up to the Expiry Date.

2.3.1 The TSP shall timely comply with all the requirements that may be laid down by the Commission for extension of the term of the Transmission License beyond the initial term of twenty-five (25) years & upto the Expiry Date and the TSP shall keep the Nodal Agency fully informed about the progress on its application for extension of the term of the Transmission License.

2.4 Survival:

The expiry or termination of this Agreement shall not affect any accrued rights, obligations/ roles and liabilities of the Parties under this Agreement, including the right to receive liquidated damages as per the terms of this Agreement, nor shall it effect the survival of any continuing obligations/ roles for which this Agreement provides, either expressly or by necessary implication, which are to survive after the Expiry Date or termination including those under Articles 3.3.3, 3.3.5, Article 9.3 (Application of Insurance Proceeds), Article 11 (Force Majeure), Article 13 (Events of Default and Termination), Article 14 (Liability & Indemnification), Article 16 (Governing Law & Dispute Resolution), Article 19 (Miscellaneous).

2.5 Applicability of the provisions of this Agreement

2.5.1 For the purpose of Availability, Target Availability and the computation of Availability, Incentive, Penalty, the provisions provided in this Agreement shall apply and any future modifications in the relevant Rules and Regulations shall not be applicable for this Project.

2.5.2 For the purposes of this Agreement for ISTS systems developed under the tariff based competitive bidding framework, the provisions relating to the definitions (Availability and COD), Article 3 (Contract Performance Guarantee and Conditions Subsequent), Article 5 (Construction of the Project), Article 6 (Connection and Commissioning of the Project), Article 8 (Target Availability and calculation of Availability), Article 11 (Force Majeure), Article 12 (Change in Law), Article 13 (Event of Default), Article 14 (Indemnification), Article 15 (Assignment and Charges), Articles 16.1, 16.2 and 16.4 (Governing Laws and Dispute Resolution) and Article 17 (representation and warranties of the ISTS Licensee) of this agreement shall supersede the corresponding provisions under Sharing Regulations.

ARTICLE: 3

3. CONDITIONS SUBSEQUENT

3.1 Satisfaction of conditions subsequent by the TSP

3.1.1 Within ten (10) days from the date of issue of Letter of Intent, the Selected Bidder, shall:

a. Provide the Contract Performance Guarantee, and

b. Acquire, for the Acquisition Price, one hundred percent (100%) equity shareholding of **KURNOOL IV REZ POWER TRANSMISSION LIMITED** from **PFC Consulting Limited**, who shall sell to the Selected Bidder, the equity shareholding of **KURNOOL IV REZ POWER TRANSMISSION LIMITED,** along with all its related assets and liabilities.

c. Execute this Agreement;

The TSP shall, within five (5) working days from the date of acquisition of SPV by the Selected Bidder, undertake to apply to the Commission for the grant of Transmission License and for the adoption of tariff as required under section-63 of the Electricity Act.

The Selected Bidder, on behalf of the TSP, will provide to the **Central Transmission Utility of India Limited** (being the Nodal Agency) the Contract Performance Guarantee for an amount of **Rs.88.00 Crore (Rupees Eighty Eight Crore Only)**.

3.1.2 The Contract Performance Guarantee shall be initially valid for a period up to three (3) months after the Scheduled COD of the Project and shall be extended from time to time to be valid for a period up to three (3) months after the COD of the Project. In case the validity of the Contract Performance Guarantee is expiring before the validity specified in this Article, the TSP shall, at least thirty (30) days before the expiry of the Contract Performance Guarantee, replace the Contract Performance Guarantee with another Contract Performance Guarantee or extend the validity of the existing Contract Performance Guarantee until the validity period specified in this Article.

3.1.3 The TSP agrees and undertakes to duly perform and complete the following activities within six (6) months from the Effective Date (except for c) below), unless such completion is affected due to any Force Majeure Event, or if any of the activities is specifically waived in writing by the Nodal Agency:

a. To obtain the Transmission License for the Project from the Commission;

b. To obtain the order for adoption of Transmission Charges by the

Commission, as required under Section 63 of the Electricity Act 2003;

c. To submit to the Nodal Agency, CEA & Independent Engineer, the Project Execution Plan, immediately after award of contract(s) and maximum within one hundred and twenty (120) days from the Effective Date. Also, an approved copy each of Manufacturing Quality Plan (MQP) and Field Quality Plan (FQP) would be submitted to Independent Engineer & Nodal Agency in the same time period. The TSP's Project Execution Plan should be in conformity with the Scheduled COD as specified in Schedule 2 of this Agreement, and shall bring out clearly the organization structure, time plan and methodology for executing the Project, award of major contracts, designing, engineering, procurement, shipping, construction, testing and commissioning to commercial operation;

d. To submit to the Nodal Agency, CEA & Independent Engineer a detailed bar (GANTT) chart of the Project outlining each activity (taking longer than one Month), linkages as well as durations;

e. To submit to the Nodal Agency, CEA & Independent Engineer detailed specifications of conductor meeting the functional specifications specified in RFP;

f. To achieve Financial Closure;

g. To provide an irrevocable letter to the Lenders duly accepting and acknowledging the rights provided to the Lenders under the provisions of Article 15.3 of this Agreement and all other RFP Project Documents;

h. To award the Engineering, Procurement and Construction contract ("EPC contract") for the design and construction of the Project and shall have given to such Contractor an irrevocable notice to proceed; and

i. To sign the Agreement(s) required, if any, under Sharing Regulations.

3.2 Recognition of Lenders' Rights by the Nodal Agency

3.2.1 The Nodal Agency hereby accepts and acknowledges the rights provided to the Lenders as per Article 15.3 of this Agreement and all other RFP Project Documents.

3.3 Consequences of non-fulfilment of conditions subsequent

3.3.1 If any of the conditions specified in Article 3.1.3 is not duly fulfilled by the TSP even within three (3) Months after the time specified therein, then on and from the expiry of such period and until the TSP has satisfied all the conditions specified in Article 3.1.3, the TSP shall, on a monthly basis, be liable to furnish to **Central Transmission Utility of India Limited (being the Nodal Agency)** additional Contract Performance Guarantee of **Rs.8.80 Crore (Rupees Eight Crore Eighty Lakh Only)** within two (2) Business Days of expiry of every such

Month. Such additional Contract Performance Guarantee shall be provided to **Central Transmission Utility of India Limited (being the Nodal Agency)** in the manner provided in Article 3.1.1 and shall become part of the Contract Performance Guarantee and all the provisions of this Agreement shall be construed accordingly. **Central Transmission Utility of India Limited (being the Nodal Agency)** shall be entitled to hold and / or invoke the Contract Performance Guarantee, including such additional Contract Performance Guarantee, in accordance with the provisions of this Agreement.

3.3.2 Subject to Article 3.3.4, if:

(i) the fulfilment of any of the conditions specified in Article 3.1.3 is delayed beyond nine (9) Months from the Effective Date and the TSP fails to furnish additional Contract Performance Guarantee to the Nodal Agency in accordance with Article 3.3.1 hereof; or

(ii) the TSP furnishes additional Performance Guarantee to the Nodal Agency in accordance with Article 3.3.1 hereof but fails to fulfil the conditions specified in Article 3.1.3 within a period of twelve (12) months from the Effective Date,

the Nodal Agency shall have the right to terminate this Agreement, by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

3.3.3 If the Nodal Agency elects to terminate this Agreement as per the provisions of Article 3.3.2, the TSP shall be liable to pay to the Nodal Agency an amount of **Rs.88.00 Crore (Rupees Eighty Eight Crore Only)** as liquidated damages. The Nodal Agency shall be entitled to recover this amount of damages by invoking the Contract Performance Guarantee to the extent of liquidated damages, which shall be required by the Nodal Agency, and the balance shall be returned to TSP, if any.

It is clarified for removal of doubt that this Article shall survive the termination of this Agreement.

3.3.4 In case of inability of the TSP to fulfil the conditions specified in Article 3.1.3 due to any Force Majeure Event, the time period for fulfilment of the condition subsequent as mentioned in Article 3.1.3, may be extended for a period of such Force Majeure Event. Alternatively, if deemed necessary, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the Contract Performance Guarantee shall be returned as per the provisions of Article 6.5.1.

Provided, that due to the provisions of this Article 3.3.4, any increase in the time period for completion of conditions subsequent mentioned under Article 3.1.3 shall lead to an equal increase in the time period for the Scheduled COD. If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the

provisions of this Article 3.3.4, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.

3.3.5 Upon termination of this Agreement as per Articles 3.3.2 and 3.3.4, the Nodal Agency may take steps to bid out the Project again.

3.3.6 The Nodal agency, on the failure of the TSP to fulfil its obligations, if it considers that there are sufficient grounds for so doing, apart from invoking the Contract Performance Guarantee under para 3.3.3 may also initiate proceedings for blacklisting the TSP as per provisions of Article 13.2 of TSA.

3.4 Progress Reports

The TSP shall notify the Nodal Agency and CEA in writing at least once a Month on the progress made in satisfying the conditions subsequent in Articles 3.1.3.

ARTICLE: 4

4. DEVELOPMENT OF THE PROJECT

4.1 TSP's obligations in development of the Project:

Subject to the terms and conditions of this Agreement, the TSP at its own cost and expense shall observe, comply with, perform, undertake and be responsible:

a. for procuring and maintaining in full force and effect all Consents, Clearances and Permits, required in accordance with Law for development of the Project;

b. for financing, constructing, owning and commissioning each of the Element of the Project for the scope of work set out in Schedule 1 of this Agreement in accordance with:

i. the Electricity Act and the Rules made thereof;

ii. the Grid Code;

iii. the CEA Regulations applicable, and as amended from time to time, for Transmission Lines and sub-stations:

- the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007;
- Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulation, 2010;
- Central Electricity Authority (Grid Standard) Regulations, 2010;
- Central Electricity Authority (Safety requirements for construction, operation and maintenance of Electrical Plants and Electrical Lines) Regulation, 2011;
- Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulation, 2010;
- Central Electricity Authority (Technical Standards for Communication System in Power System Operation) Regulations, 2020.

iv. Safety/ security Guidelines laid down by the Government;

v. Prudent Utility Practices, relevant Indian Standards and the Law;

not later than the Scheduled COD as per Schedule 2 of this Agreement;

c. for entering into a Connection Agreement with the concerned parties in accordance with the Grid Code.

d. for owning the Project throughout the term of this Agreement free and clear of any encumbrances except those expressly permitted under Article 15 of this Agreement;

e. to co-ordinate and liaise with concerned agencies and provide on a timely basis relevant information with regard to the specifications of the Project that may be required for interconnecting the Project with the Interconnection Facilities;

f. for providing all assistance to the Arbitrators as they may require for the performance of their duties and responsibilities;

g. to provide to the Nodal Agency and CEA, on a monthly basis, progress reports with regard to the Project and its execution (in accordance with prescribed form) to enable the CEA to monitor and co-ordinate the development of the Project matching with the Interconnection Facilities;

h. to comply with Ministry of Power order No. 25-11/6/2018 – PG dated 02.07.2020 as well as other Guidelines issued by Govt. of India pertaining to this;

i. to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. P45021/2/2017-PP (BE-II)-Part (4) Vol.II dated 19.07.2024 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard (Procuring Entity as defined in above orders shall deemed to have included Selected Bidder and/ or TSP).

Also, to comply with Department of Expenditure, Ministry of Finance vide OM No. F.7/10/2021-PPD (1) dated 23.02.2023, as amended from time to time, regarding public procurement from a bidder of a country, which shares land border with India;

j. to submit to Nodal Agency information in the prescribed format [To be devised by Nodal Agency] for ensuring compliance to Article 4.1 (i) above.

k. to comply with all its obligations undertaken in this Agreement.

4.2 Roles of the Nodal Agency in implementation of the Project:

4.2.1 Subject to the terms and conditions of this Agreement, the Nodal Agency shall be the holder and administrator of this Agreement and shall inter alia:

a. appoint an Independent Engineer within 90 days of the Effective Date

b. provide letters of recommendation to the concerned Indian Governmental Instrumentality, as may be requested by the TSP from time to time, for obtaining the Consents, Clearances and Permits required for the Project;

c. coordinate among TSP and upstream/downstream entities in respect of Interconnection Facilities; and

d. monitor the implementation of the Agreement and take appropriate action for breach thereof including revocation of guarantees, cancellation of Agreement, blacklisting etc

e. provide all assistance to the Arbitrators as required for the performance of their duties and responsibilities; and

f. perform any other responsibility (ies) as specified in this Agreement.

4.3 Time for Commencement and Completion:

a. The TSP shall take all necessary steps to commence work on the Project from the Effective Date of the Agreement and shall achieve Scheduled COD of the Project in accordance with the time schedule specified in Schedule 2 of this Agreement;

b. The COD of each Element of the Project shall occur no later than the Scheduled COD or within such extended time to which the TSP shall be entitled under Article 4.4 hereto.

4.4 Extension of time:

4.4.1 In the event that the TSP is unable to perform its obligations for the reasons solely attributable to the Nodal Agency, the Scheduled COD shall be extended, by a 'day to day' basis, subject to the provisions of Article 13.

4.4.2 In the event that an Element or the Project cannot be commissioned by its Scheduled COD on account of any Force Majeure Event as per Article 11, the Scheduled COD shall be extended, by a 'day to day' basis for a period of such Force Majeure Event. Alternatively, if deemed necessary, the Nodal Agency may terminate the Agreement as per the provisions of Article 13.4 by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

4.4.3 If the Parties have not agreed, within thirty (3D) days after the affected Party's performance has ceased to be affected by the relevant circumstance, on how long the Scheduled COD should be deferred by, any Party may raise the Dispute to be resolved in accordance with Article 16.

4.5 Metering Arrangements:

4.5.1 The TSP shall comply with all the provisions of the IEGC and the Central Electricity Authority (Installation and Operation of Meters) Regulations, 20D6 as amended from time to time, with regard to the metering arrangements for the Project. The TSP shall fully cooperate with the CTU / STU / RLDC and extend all necessary assistance in taking meter readings.

4.6 Interconnection Facilities:

4.6.1 Subject to the terms and conditions of this Agreement, the TSP shall be responsible for connecting the Project with the interconnection point(s) specified in Schedule 1 of this Agreement. The Interconnection Facilities shall be developed as per the scope of work and responsibilities assigned in Schedule 1 of this Agreement. The Nodal Agency shall be responsible for coordinating to make available the Interconnection Facilities.

4.6.2 In order to remove any doubts, it is made clear that the obligation of the TSP within the scope of the project is to construct the Project as per Schedule-1 of this Agreement and in particular to connect it to the Interconnection Facilities as specified in this Agreement.

ARTICLE: 5

5. CONSTRUCTION OF THE PROJECT

5.1 TSP's Construction Responsibilities:

5.1.1 The TSP, at its own cost and expense, shall be responsible for designing, constructing, erecting, testing and commissioning each Element of the Project by the Scheduled COD in accordance with the Regulations and other applicable Laws specified in Article 4.1 of this Agreement.

5.1.2 The TSP acknowledges and agrees that it shall not be relieved from any of its obligations under this Agreement or be entitled to any extension of time or any compensation whatsoever by reason of the unsuitability of the Site or Transmission Line route(s).

5.1.3 The TSP shall be responsible for obtaining all Consents, Clearances and Permits related but not limited to road / rail / river / canal / power line / crossings, Power and Telecom Coordination Committee (PTCC), defence, civil aviation, right of way / way-leaves and environmental & forest clearances from relevant authorities required for developing, financing, constructing, maintaining/ renewing all such Consents, Clearances and Permits in order to carry out its obligations under this Agreement in general and shall furnish to the Nodal Agency such copy/ies of each Consents, Clearances and Permits, on demand. Nodal Agency shall provide letters of recommendation to the concerned Indian Governmental Instrumentality, as may be requested by the TSP from time to time, for obtaining the Consents, Clearances and Permits required for the Project.

5.1.4 The TSP shall be responsible for:

a) Acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations. Also, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) in the scope of TSP:
   - For Generation Pooling Substation shall not be beyond 3 Km radius of the location proposed by BPC in their survey report.
   - For Load Serving Substation within the scope of TSP shall not be beyond 5 Km radius of the location proposed by the BPC in their Survey Report
   - For an Intermediate Substation shall not be beyond 10 Km radius of the location proposed by the BPC in their Survey Report.

b) final selection of Site including its geo-technical investigation

c) Survey and geo-technical investigation of line route in order to determine the final route of the Transmission Lines;

d) Seeking access to the Site and other places where the Project is being executed, at its own risk and costs, including payment of any crop, tree compensation or any other compensation as may be required.

5.1.5 In case the Project involves any resettlement and rehabilitation, the resettlement and rehabilitation package will be implemented by the State Government authorities, for which the costs is to be borne by the TSP and no changes would be allowed in the Transmission Charges on account of any variation in the resettlement and rehabilitation cost. The TSP shall provide assistance on best endeavour basis, in implementation of the resettlement and rehabilitation package, if execution of such package is in the interest of expeditious implementation of the Project and is beneficial to the Project affected persons.

5.2 Appointing Contractors:

5.2.1 The TSP shall conform to the requirements as provided in this Agreement while appointing Contractor(s) for procurement of goods & services.

5.2.2 The appointment of such Contractor(s) shall neither relieve the TSP of any of its obligations under this Agreement nor make the Nodal Agency liable for the performance of such Contractor(s).

5.3 Monthly Progress Reporting:

The TSP shall provide to the CEA, Nodal Agency & Independent Engineer, on a monthly basis, progress reports along with likely completion date of each Element with regard to the Project and its execution (in accordance with prescribed form). The Nodal Agency/ CEA shall monitor the development of the Project for its timely completion for improving and augmenting the electricity system as a part of its statutory responsibility.

5.4 Quality of Workmanship:

The TSP shall ensure that the Project is designed, built and completed in a good workmanship using sound engineering and construction practices, and using only materials and equipment that are new and manufactured as per the MQP and following approved FQP for erection, testing & commissioning and complying with Indian /International Standards such that, the useful life of the Project will be at least thirty five (35) years from the COD of the Project.

The TSP shall ensure that all major substation equipment / component (e.g. transformers, reactors, Circuit Breakers, Instrument Transformers (IT), Surge Arresters (SA), Protection relays, clamps & connectors etc.), equipment in terminal stations of HVDC installations including Thyristor/ IGBT valves, Converter Transformers, smoothing reactors, Transformer bushings and wall bushings, GIS bus

ducts, towers and gantry structures and transmission towers or poles and line materials (conductors, earthwire, OPGW, insulator, accessories for conductors, OPGW & earthwires, hardware fittings for insulators, aviation lights etc), facilities and system shall be designed, constructed and tested (Type test, Routine tests, Factory Acceptance Test (FAT)) in accordance with relevant CEA Regulations and Indian Standards. In case Indian Standards for any particular equipment/ system/ process is not available, IEC/ IEEE or equivalent International Standards and Codes shall be followed.

5.5 Progress Monitoring & Quality Assurance:

5.5.1 The Project Execution Plan submitted by the TSP in accordance with Article 3.1.3 c) shall comprise of detailed schedule of all the equipment/items /materials required for the Project, right from procurement of raw material till the dispatch from works and receipt at the site. Further, it should also include various stages of the construction schedule up to the commissioning of the Project.

5.5.2 Nodal Agency, CEA & Independent Engineer shall have access at all reasonable times to the Site and to the Manufacturer's works and to all such places where the Project is being executed.

5.5.3 Independent Engineer shall ensure conformity of the conductor specifications with the functional specifications specified in RFP.

5.5.4 The Independent Engineer shall monitor the following during construction of the Project:

a) Quality of equipment, material, foundation, structures and workmanship etc. as laid down in Article 5.4 and 6.1.4 of the TSA. Specifically, quality of Sub-station equipment, transmission line material and workmanship etc. would be checked in accordance with the Article 5.4.

b) Progress in the activities specified in Condition Subsequent

c) Verification of readiness of the elements including the statutory clearances & completion of civil works, fixing of all components and finalisation of punch points (if any) prior to charging of the elements

d) Progress of construction of substation and Transmission Lines

5.5.5 The progress shall be reviewed by the Independent Engineer against the Project Execution Plan. The Independent Engineer shall prepare its report on monthly basis and submit the same to Nodal Agency highlighting the progress achieved till the end of respective month vis-à-vis milestone activities, areas of concern, if any, which may result in delay in the timely completion of the Project. Based on the progress, Nodal

Agency and/ or CEA shall issue written instructions to the TSP to take corrective measures, as may be prudent for the timely completion of the Project. In case of any deficiency, the Nodal Agency would be at liberty to take action in accordance with the procedure of this Agreement.

5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.

5.6 Site regulations and Construction Documents

The TSP shall abide by the Safety Rules and Procedures as mentioned in Schedule 3 of this Agreement

The TSP shall retain at the Site and make available for inspection at all reasonable times, copies of the Consents, Clearances and Permits, construction drawings and other documents related to construction.

5.7 Supervision of work:

The TSP shall provide all necessary superintendence for execution of the Project and its supervisory personnel shall be available to provide full-time superintendence for execution of the Project. The TSP shall provide skilled personnel who are experienced in their respective fields.

5.8 Remedial Measures:

The TSP shall take all necessary actions for remedying the shortfall in achievement of timely progress in execution of the Project, if any, as intimated by the Independent Engineer and/ or CEA and/ or the Nodal Agency. However, such intimation by the Independent Engineer and/ or CEA and/ or the Nodal Agency and the subsequent effect of such remedial measures carried out by the TSP shall not relieve the TSP of its obligations in the Agreement. Independent Engineer and/ or CEA and/ or the Nodal Agency may carry out random inspections during the Project execution, as and when deemed necessary by it. If the shortfalls as intimated to the TSP are not remedied to the satisfaction of the CEA and/ or the Nodal Agency, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

ARTICLE: 6

6. CONNECTION AND COMMISSIONING OF THE PROJECT

6.1 Connection with the Inter-Connection Facilities:

6.1.1 The TSP shall give the RLDC(s), CTU, / STU, as the case may be, and any other agencies as required, at least sixty (60) days advance written notice of the date on which it intends to connect an Element of the Project, which date shall not be earlier than its Scheduled COD or Schedule COD extended as per Article 4.4.1 & 4.4.2 of this Agreement, unless mutually agreed to by Parties. Further, any preponing of COD of any element prior to Scheduled COD must be approved by the Nodal Agency.

6.1.2 The RLDC / SLDC (as the case may be) or the CTU / STU (as the case may be), for reasonable cause, including non-availability of Interconnection Facilities as per Article 4.2, can defer the connection for up to fifteen (15) days from the date notified by the TSP pursuant to Article 6.1.1, if it notifies to the TSP in writing, before the date of connection, of the reason for the deferral and when the connection is to be rescheduled. However, no such deferment on one or more occasions would be for more than an aggregate period of thirty (30) days. Further, the Scheduled COD would be extended as required, for all such deferments on "day to day" basis.

6.1.3 Subject to Articles 6.1.1 and 6.1.2, any Element of Project may be connected with the Interconnection Facilities when:

a. it has been completed in accordance with this Agreement and the Connection Agreement;

b. it meets the Grid Code, Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time to time and all other Indian legal requirements, and

c. The TSP has obtained the approval in writing of the Electrical Inspector certifying that the Element is ready from the point of view of safety of supply and can be connected with the Interconnection Facilities.

d. It has satisfactorily met all the testing requirements as per Articles 6.1.4.

6.1.4 Site Acceptance Test (SAT)/ pre-commissioning tests of all major substation equipment, component, system, facilities shall be successfully carried out before commissioning. The Type tests, FAT and SAT reports should be available at the substation / terminal station of HVDC installations for ready reference of operation and maintenance staff and has to be made available to the Independent Engineer

appointed for quality monitoring or their authorised representatives, as and when they wish to examine the same.

6.2 Commercial Operation:

6.2.1 An Element of the Project shall be declared to have achieved COD twenty four (24) hours following the connection of the Element with the Interconnection Facilities pursuant to Article 6.1 or seven (7) days after the date on which it is declared by the TSP to be ready for charging but is not able to be charged for reasons not attributable to the TSP subject to Article 6.1.2.

Provided that an Element shall be declared to have achieved COD only after all the Element(s), if any, which are pre-required to have achieved COD as defined in Schedule 2 of this Agreement, have been declared to have achieved their respective COD.

6.2.2 Once any Element of the Project has been declared to have achieved deemed COD as per Article 6.2.1 above, such Element of the Project shall be deemed to have Availability equal to the Target Availability till the actual charging of the Element and to this extent, TSP shall be eligible for the Monthly Transmission Charges applicable for such Element.

6.3 Compensation for Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event (affecting the Nodal Agency)

6.3.1 If the TSP is otherwise ready to connect the Element(s) of the Project and has given due notice, as per provisions of Article 6.1.1, to the concerned agencies of the date of intention to connect the Element(s) of the Project, where such date is not before the Scheduled COD, but is not able to connect the Element(s) of the Project by the said date specified in the notice, due to Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, provided such Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency has continued for a period of more than three (3) continuous or non-continuous Months, the TSP shall, until the effects of the Direct Non Natural Force Majeure Event or of Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency no longer prevent the TSP from connecting the Element(s) of the Project, be deemed to have achieved COD relevant to that date and to this extent, be deemed to have been providing Transmission Service with effect from the date notified, and shall be treated as follows:

a. In case of delay due to Direct Non Natural Force Majeure Event, TSP is entitled for Transmission Charges calculated on Target Availability for the period of such events in excess of three (3) continuous or non-continuous

Months in the manner provided in (c) below.

b. In case of delay due to Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, TSP is entitled for payment for debt service which is due under the Financing Agreements, subject to a maximum of Transmission Charges calculated on Target Availability, for the period of such events in excess of three (3) continuous or non-continuous Months in the manner provided in (c) below.

c. In case of delay due to Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, the TSP is entitled for payments mentioned in (a) and (b) above, after commencement of Transmission Service, in the form of an increase in Transmission Charges. These amounts shall be paid from the date, being the later of a) the date of cessation of such Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency and b) the completion of sixty (60) days from the receipt of the Financing Agreements by the Nodal Agency from the TSP.

Provided such increase in Transmission Charges shall be so as to put the TSP in the same economic position as the TSP would have been in case the TSP had been paid amounts mentioned in (a) and (b) above in a situation where the Force Majeure Event had not occurred.

For the avoidance of doubt, it is clarified that the charges payable under this Article 6.3.1 shall be recovered as per Sharing Regulations.

6.4 Liquidated Damages for Delay in achieving COD of Project:

6.4.1 If the TSP fails to achieve COD of any Element of the Project or the Project, by the Element's / Project's Scheduled COD or such Scheduled COD as extended under Articles 4.4.1 and 4.4.3, then the TSP shall pay to the Nodal Agency, a sum equivalent to 3.33% of Monthly Transmission Charges applicable for the Element of the Project [in case where no Elements have been defined, to be on the Project as a whole] / Project, for each day of delay up to sixty (60) days of delay and beyond that time limit, at the rate of five percent (5%) of the Monthly Transmission Charges applicable to such Element / Project, as liquidated damages for such delay and not

as penalty, without prejudice to any rights of the Nodal Agency under the Agreement.

6.4.2 The TSP's maximum liability under this Article 6.4 shall be limited to the amount of liquidated damages calculated in accordance with Article 6.4.1 for and up to six (6) months of delay for the Element or the Project.

Provided that, in case of failure of the TSP to achieve COD of the Element of the Project even after the expiry of six (6) months from its Scheduled COD, the provisions of Article 13 shall apply.

6.4.3 The TSP shall make payment to the Nodal Agency of the liquidated damages calculated pursuant to Article 6.4.1 within ten (10) days of the earlier of:

a. the date on which the applicable Element achieves COD; or

b. the date of termination of this Agreement.

The payment of such damages shall not relieve the TSP from its obligations to complete the Project or from any other obligation and liabilities under the Agreement.

6.4.4 If the TSP fails to pay the amount of liquidated damages to the Nodal Agency within the said period of ten (10) days, the Nodal Agency shall be entitled to recover the said amount of the liquidated damages by invoking the Contract Performance Guarantee. If the then existing Contract Performance Guarantee is for an amount which is less than the amount of the liquidated damages payable by the TSP to the Nodal Agency under this Article 6.3 and the TSP fails to make payment of the balance amount of the liquidated damages not covered by the Contract Performance Guarantee, then such balance amount shall be deducted from the Transmission Charges payable to the TSP. The right of the Nodal Agency to encash the Contract Performance Guarantee is without prejudice to the other rights of the Nodal Agency under this Agreement.

6.4.5 For avoidance of doubt, it is clarified that amount payable by TSP under this Article is over and above the penalty payable by TSP under Article S.S.6 of this Agreement.

6.5 Return of Contract Performance Guarantee

6.5.1 The Contract Performance Guarantee as submitted by TSP in accordance with Article 3.1.1 shall be released by the Nodal Agency within three (3) months from the COD of the Project. In the event of delay in achieving Scheduled COD of any of the Elements by the TSP (otherwise than due to reasons as mentioned in Article 3.1.3 or Article 11) and consequent part invocation of the Contract Performance Guarantee by the Nodal Agency, Nodal Agency shall release the Contract Performance

Guarantee, if any remaining unadjusted, after the satisfactory completion by the TSP of all the requirements regarding achieving the Scheduled COD of the remaining Elements of the Project. It is clarified that the Nodal Agency shall also return / release the Contract Performance Guarantee in the event of (i) applicability of Article 3.3.2 to the extent the Contract Performance Guarantee is valid for an amount in excess of **Rs.88.00 Crore (Rupees Eighty Eight Crore Only),** or (ii) termination of this Agreement by the Nodal Agency as mentioned under Article 3.3.4 of this Agreement.

6.5.2 The release of the Contract Performance Guarantee shall be without prejudice to other rights of the Nodal Agency under this Agreement.

ARTICLE: 7

7. OPERATION AND MAINTENANCE OF THE PROJECT

7.1 Operation and Maintenance of the Project:

The TSP shall be responsible for ensuring that the Project is operated and maintained in accordance with the regulations made by the Commission and CEA from time to time and provisions of the Act.

ARTICLE: 8

8. AVAILABILITY OF THE PROJECT

8.1 Calculation of Availability of the Project:

Calculation of Availability for the Elements and for the Project, as the case may be, shall be as per **Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024**, as applicable on the Bid Deadline and as appended in Schedule 6 of this Agreement.

8.2 Target Availability:

The Target Availability of each Element and the Project shall be **98%.**

Payment of monthly Transmission charges based on actual availability will be calculated as per para 1.2 of Schedule 4 of this Agreement.

If the availability of any Element or the Project is below the Target Availability, for six consecutive months in a Contract Year, the DIC(s) or the Nodal Agency may issue a show cause notice to the TSP, asking them to show cause as to why the Transmission Service Agreement be not terminated, and if no satisfactory cause is shown it may terminate the Agreement. If the Nodal Agency is of the opinion that the transmission system is of critical importance, it may carry out or cause to carry the operation and maintenance of transmission system at the risk and cost of TSP.

ARTICLE: 9

9. INSURANCES

9.1 Insurance:

9.1.1 The TSP shall effect and maintain or cause to be effected and maintained during the Construction Period and the Operating Period, adequate Insurances against such risks, with such deductibles including but not limited to any third party liability and endorsements and co-beneficiary/insured, as may be necessary under

a. any of the Financing Agreements,

b. the Laws, and

c. in accordance with Prudent Utility Practices.

The Insurances shall be taken effective from a date prior to the date of the Financial Closure till the Expiry Date.

9.2 Evidence of Insurance cover:

9.2.1 The TSP shall furnish to the Nodal Agency copies of certificates and policies of the Insurances, as and when the Nodal Agency may seek from the TSP as per the terms of Article 9.1

9.3 Application of Insurance Proceeds:

9.3.1 Save as expressly provided in this Agreement, the policies of Insurances and the Financing Agreements, the proceeds of any insurance claim made due to loss or damage to the Project or any part of the Project shall be first applied to reinstatement, replacement or renewal of such loss or damage.

9.3.2 If a Natural Force Majeure Event renders the Project no longer economically and technically viable and the insurers under the Insurances make payment on a "total loss" or equivalent basis, the portion of the proceeds of such Insurance available to the TSP (after making admissible payments to the Lenders as per the Financing Agreements) shall be allocated only to the TSP. Nodal Agency and / or concerned Designated ISTS Customers shall have no claim on such proceeds of the Insurance.

9.3.3 Subject to the requirements of the Lenders under the Financing Agreements, any dispute or difference between the Parties as to whether the Project is no longer economically and technically viable due to a Force Majeure Event or whether that event was adequately covered in accordance with this Agreement by the Insurances shall be determined in accordance with Article 16.

9.4 Effect on liability of the Nodal Agency / Designated ISTS Customers

9.4.1 The Nodal Agency and / or the Designated ISTS Customers shall have no financial obligations or liability whatsoever towards the TSP in respect of this Article 9.

ARTICLE: 10

10. BILLING AND PAYMENT OF TRANSMISSION CHARGES

10.1 Subject to provisions of this Article 10, the Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of the Sharing Regulations, from the date on which an Element(s) has achieved COD until the Expiry Date of this Agreement, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement.

10.2 Calculation of Monthly Transmission Charges:

The Monthly Transmission Charges for each Contract Year including Incentive & Penalty payment shall be calculated in accordance with the provisions of Schedule 4 of this Agreement.

10.3 Rebate & Late Payment Surcharge:

The rebate and late payment surcharge shall be governed as per Sharing Regulations.

10.4 Disputed Bills, Default in payment by the Designated ISTS Customers & Annual Reconciliation:

Any Disputed Bill, Default in payment by the Designated ISTS Customers & Annual Reconciliation shall be governed as per Sharing Regulations.

ARTICLE: 11

11. FORCE MAJEURE

11.1 Definitions

11.1.1 The following terms shall have the meanings given hereunder.

11.2 Affected Party

11.2.1 An Affected Party means any Party whose performance has been affected by an event of Force Majeure.

11.2.2 Any event of Force Majeure shall be deemed to be an event of Force Majeure affecting the TSP only if the Force Majeure event affects and results in, late delivery of machinery and equipment for the Project or construction, completion, commissioning of the Project by Scheduled COD and/or operation thereafter;

11.3 Force Majeure

A 'Force Majeure' means any event or circumstance or combination of events and circumstances including those stated below that wholly or partly prevents or unavoidably delays an Affected Party in the performance of its obligations/ roles under this Agreement, but only if and to the extent that such events or circumstances are not within the reasonable control, directly or indirectly, of the Affected Party and could not have been avoided if the Affected Party had taken reasonable care or complied with Prudent Utility Practices:

a) Natural Force Majeure Events:

i. act of God, including, but not limited to drought, fire and explosion (to the extent originating from a source external to the Site), earthquake, volcanic eruption, landslide, flood, cyclone, typhoon, tornado, or exceptionally adverse weather conditions, which are in excess of the statistical measures for the last hundred (100) years; and

ii. epidemic/ pandemic notified by Indian Governmental Instrumentality.

b) Non-Natural Force Majeure Events:

i. Direct Non–Natural Force Majeure Events

- Nationalization or compulsory acquisition by any Indian Governmental Instrumentality of any material assets or rights of the Affected Party; or
- the unlawful, unreasonable or discriminatory revocation of, or

refusal to renew, any Consents, Clearances and Permits required by the Affected Party to perform their obligations/ roles under the RFP Project Documents or any unlawful, unreasonable or discriminatory refusal to grant any other Consents, Clearances and Permits required for the development/ operation of the Project, provided that a Competent Court of Law declares the revocation or refusal to be unlawful, unreasonable and discriminatory and strikes the same down; or

- any other unlawful, unreasonable or discriminatory action on the part of an Indian Governmental Instrumentality which is directed against the Project, provided that a Competent Court of Law declares the action to be unlawful, unreasonable and discriminatory and strikes the same down.

ii. Indirect Non - Natural Force Majeure Events

- act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, terrorist or military action; or
- radio active contamination or ionising radiation originating from a source in India or resulting from any other Indirect Non Natural Force Majeure Event mentioned above, excluding circumstances where the source or cause of contamination or radiation is brought or has been brought into or near the Site by the Affected Party or those employed or engaged by the Affected Party; or
- industry-wide strikes and labour disturbances, having a nationwide impact in India.

11.4 Force Majeure Exclusions

11.4.1 Force Majeure shall not include (i) any event or circumstance which is within the reasonable control of the Parties and (ii) the following conditions, except to the extent that they are consequences of an event of Force Majeure:

(a) Unavailability, late delivery, or changes in cost of the machinery, equipment, materials, spare parts etc. for the Project;

(b) Delay in the performance of any Contractors or their agents;

(c) Non-performance resulting from normal wear and tear typically experienced in transmission materials and equipment;

(d) Strikes or labour disturbance at the facilities of the Affected Party;

(e) Insufficiency of finances or funds or the Agreement becoming onerous to perform; and

(f) Non-performance caused by, or connected with, the Affected Party's:

i. negligent or intentional acts, errors or omissions;

ii. failure to comply with an Indian Law; or

iii. breach of, or default under this Agreement or any Project Documents.

(g) Any error or omission in the survey report provided by BPC during the bidding process.

11.5 Notification of Force Majeure Event

11.5.1 The Affected Party shall give notice to the other Party of any event of Force Majeure as soon as reasonably practicable, but not later than seven (7) days after the date on which such Party knew or should reasonably have known of the commencement of the event of Force Majeure. If an event of Force Majeure results in a breakdown of communications rendering it unreasonable to give notice within the applicable time limit specified herein, then the Party claiming Force Majeure shall give such notice as soon as reasonably practicable after reinstatement of communications, but not later than one (1) day after such reinstatement.

Provided that, such notice shall be a pre-condition to the Affected Party's entitlement to claim relief under this Agreement. Such notice shall include full particulars of the event of Force Majeure, its effects on the Party claiming relief and the remedial measures proposed. The Affected Party shall give the other Party regular reports on the progress of those remedial measures and such other information as the other Party may reasonably request about the Force Majeure.

11.5.2 The Affected Party shall give notice to the other Party of (i) the cessation of the relevant event of Force Majeure; and (ii) the cessation of the effects of such event of Force Majeure on the performance of its rights or obligations/ roles under this Agreement, as soon as practicable after becoming aware of each of these cessations.

11.6 Duty to perform and duty to mitigate

To the extent not prevented by a Force Majeure Event, the Affected Party shall continue to perform its obligations/ roles as provided in this Agreement. The Affected Party shall use its reasonable efforts to mitigate the effect of any event of Force Majeure as soon as practicable.

11.7 Available Relief for a Force Majeure Event

Subject to this Article 11,

(a) no Party shall be in breach of its obligations/ roles pursuant to this Agreement to the extent that the performance of its obligations/ roles was prevented, hindered or delayed due to a Force Majeure Event;

(b) each Party shall be entitled to claim relief for a Force Majeure Event affecting its performance in relation to its obligations/ roles under Articles 3.3.4, 4.4.2 and 6.3.1 of this Agreement.

(c) For the avoidance of doubt, it is clarified that the computation of Availability of the Element(s) under outage due to Force Majeure Event, as per Article 11.3 affecting the TSP shall be as per **Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024** as on Bid Deadline. For the event(s) for which the Element(s) is/are deemed to be available as per **Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024**, then the Transmission Charges, as applicable to such Element(s), shall be payable as per Schedule 4, for the duration of such event(s).

(d) For so long as the TSP is claiming relief due to any Force Majeure Event under this Agreement, the Nodal Agency may, if it so desires, from time to time on one (1) day notice, inspect the Project and the TSP shall provide the Nodal Agency's personnel with access to the Project to carry out such inspections.

(e) For avoidance of doubt, the TSP acknowledges that for extension of Scheduled COD a period up to one hundred eighty (180) days due to Force Majeure event, no compensation on the grounds such as interest cost, incident expenditure, opportunity cost will be made to the TSP. However, if Scheduled COD is extended beyond a period of one hundred eighty (180) days due to Force Majeure event, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.

ARTICLE: 12

12. CHANGE IN LAW

12.1 Change in Law

12.1.1 Change in Law means the occurrence of any of the following after the Bid Deadline resulting into any additional recurring / non-recurring expenditure by the TSP or any savings of the TSP:

- the enactment, coming into effect, adoption, promulgation, amendment, modification or repeal (without re-enactment or consolidation) in India, of any Law, including rules and regulations framed pursuant to such Law, subject to the provisions under Article 12.1.2;
- a change in the interpretation or application of any Law by any Indian Governmental Instrumentality having the legal power to interpret or apply such Law, or any Competent Court of Law;
- the imposition of a requirement for obtaining any Consents, Clearances and Permits which was not required earlier;
- a change in the terms and conditions prescribed for obtaining any Consents, Clearances and Permits or the inclusion of any new terms or conditions for obtaining such Consents, Clearances and Permits;
- any change in the licensing regulations of the Commission, under which the Transmission License for the Project was granted if made applicable by such Commission to the TSP;
- change in wind zone; or
- any change in tax or introduction of any tax made applicable for providing Transmission Service by the TSP as per the terms of this Agreement.

12.1.2 Notwithstanding anything contained in this Agreement, Change in Law shall not cover any change:

a) Taxes on corporate income; and

b) Withholding tax on income or dividends distributed to the shareholders of the TSP.

12.2 Relief for Change in Law

12.2.1 During Construction Period, the impact of increase/decrease in the cost of the Project on the Transmission Charges shall be governed by the formula given in Schedule 9 of this Agreement.

12.2.2 During the Operation Period:

During the operation period, if as a result of Change in Law, the TSP suffers or is benefited from a change in costs or revenue, the aggregate financial effect of which exceeds 0.30% (zero point three percent) of the Annual Transmission Charges in aggregate for a Contract Year, the TSP may notify so to the Nodal Agency and propose amendments to this Agreement so as to place the TSP in the same financial position as it would have enjoyed had there been no such Change in Law resulting in change in costs or revenue as aforesaid.

12.2.3 For any claims made under Articles 12.2.1 and 12.2.2 above, the TSP shall provide to the Nodal Agency documentary proof of such increase / decrease in cost of the Project / revenue for establishing the impact of such Change in Law.

In cases where Change in Law results in decrease of cost and it comes to the notice of Nodal Agency that TSP has not informed Nodal Agency about such decrease in cost, Nodal Agency may initiate appropriate claim.

12.3 Notification of Change in Law:

12.3.1 If the TSP is affected by a Change in Law in accordance with Article 12.1 and wishes to claim relief for such Change in Law under this Article 12, it shall give notice to Nodal Agency of such Change in Law as soon as reasonably practicable after becoming aware of the same.

12.3.2 The TSP shall also be obliged to serve a notice to the Nodal Agency even when it is beneficially affected by a Change in Law.

12.3.3 Any notice served pursuant to Articles 12.3.1 and 12.3.2 shall provide, amongst other things, precise details of the Change in Law and its estimated impact on the TSP.

12.4 Payment on account of Change in Law

12.4.1 The payment for Change in Law shall be through a separate Bill. However, in case of any change in Monthly Transmission Charges by reason of Change in Law, as determined in accordance with this Agreement, the Bills to be raised by the Nodal Agency after such change in Transmission Charges shall appropriately reflect the changed Monthly Transmission Charges.

ARTICLE: 13

13. EVENTS OF DEFAULT AND TERMINATION

13.1 TSP's Event of Default

The occurrence and continuation of any of the following events shall constitute a TSP Event of Default, unless any such TSP Event of Default occurs as a result of any non-fulfilment of its obligations as prescribed under this Agreement by the Nodal Agency or a Force Majeure Event:

a. After having taken up the construction of the Project, the abandonment by the TSP or the TSP's Contractors of the construction of the Project for a continuous period of two (2) months and such default is not rectified within thirty (30) days from the receipt of notice from the Nodal Agency in this regard;

b. The failure to commission any Element of the Project by the date falling six (6) months after its Scheduled COD unless extended by Nodal Agency as per provisions of this Agreement;

c. If the TSP:

i. assigns, mortgages or charges or purports to assign, mortgage or charge any of its assets or rights related to the Project in contravention of the provisions of this Agreement; or

ii. transfers or novates any of its obligations pursuant to this Agreement, in a manner contrary to the provisions of this Agreement;

Except where such transfer is in pursuance of a Law and

- it does not affect the ability of the transferee to perform, and such transferee has the financial and technical capability to perform, its obligations under this Agreement;
- is to a transferee who assumes such obligations under the Project and this Agreement remains effective with respect to the transferee;

d. If:

i. The TSP becomes voluntarily or involuntarily the subject of any bankruptcy or insolvency or winding up proceedings and such

proceedings remain uncontested for a period of thirty (30) days; or

ii. any winding up or bankruptcy or insolvency order is passed against the TSP; or

iii. the TSP goes into liquidation or dissolution or a receiver or any similar officer is appointed over all or substantially all of its assets or official liquidator is appointed to manage its affairs, pursuant to Law,

Provided that a dissolution or liquidation of the TSP will not be a TSP's Event of Default, where such dissolution or liquidation of the TSP is for the purpose of a merger, consolidation or reorganization with the prior approval of the Commission as per the provisions of Central Electricity Regulatory Commission (Procedure, terms and Conditions for grant of Transmission License and other related matters) Regulations, 2006 or as amended from time to time; or

e. Failure on the part of the TSP to comply with the provisions of Article 19.1 of this Agreement; or

f. the TSP repudiates this Agreement and does not rectify such breach even within a period of thirty (30) days from a notice from the Nodal Agency in this regard; or

g. after Commercial Operation Date of the Project, the TSP fails to achieve monthly Target Availability of 98% for a period of six (6) consecutive months or within a non-consecutive period of six (6) months within any continuous aggregate period of eighteen(18) months except where the Availability is affected by Force Majeure Events as per Article 11; or

h. any of the representations and warranties made by the TSP in Article 17 of this Agreement being found to be untrue or inaccurate. Further, in addition to the above, any of the undertakings submitted by the Selected Bidder at the time of submission of the Bid being found to be breached or inaccurate, including but not limited to undertakings from its Parent Company / Affiliates related to the minimum equity obligation; or

i. the TSP fails to complete / fulfil all the activities / conditions within the specified period as per Article 3; or

j. except for the reasons solely attributable to Nodal Agency, the TSP is in material breach of any of its obligations under this Agreement and such material breach is not rectified by the TSP within thirty (30) days of receipt of notice in this regard from the Nodal Agency; or

k. the TSP fails to take the possession of the land required for location specific substations, switching stations or HVDC terminal or inverter stations and / or fails to pay the requisite price to the parties and / or any State Government authority from whom the land is acquired, within twelve (12) months from the Effective Date.

13.2 Termination Procedure for TSP Event of Default

a. Upon the occurrence and continuance of any TSP's Event of Default under Article 13.1 the Nodal Agency may serve notice on the TSP, with a copy to the CEA and the Lenders' Representative, of their intention to terminate this Agreement (a "Nodal Agency's Preliminary Termination Notice"), which shall specify in reasonable detail, the circumstances giving rise to such Nodal Agency's Preliminary Termination Notice.

b. Following the issue of a Nodal Agency's Preliminary Termination Notice, the Consultation Period shall apply and would be for the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant Event of Default having regard to all the circumstances.

c. During the Consultation Period, the Parties shall, save as otherwise provided in this Agreement, continue to perform their respective obligations/ roles under this Agreement, and the TSP shall not remove any material, equipment or any part of the Project, without prior consent of the Nodal Agency.

Following the expiry of the Consultation Period, unless the Parties shall have otherwise agreed to the contrary or the circumstances giving rise to Nodal Agency's Preliminary Termination Notice shall have ceased to exist or shall have been remedied, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

Further, the Nodal Agency may also initiate proceedings to blacklist the TSP & its Affiliates from participation in any RFP issued by BPCs for a period of 5 years.

13.3 Procedure for Nodal Agency's non-fulfilment of Role

a. Upon the Nodal Agency not being able to fulfil its role under Article 4.2, the TSP may serve notice on the Nodal Agency, with a copy to CEA and the Lenders' Representative (a "TSP's Preliminary Notice"), which notice shall specify in reasonable detail the circumstances giving rise to such non-fulfilment of role by the Nodal Agency.

b. Following the issue of a TSP's Preliminary Notice, the Consultation Period shall apply.

c. The Consultation Period would be for the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant non-fulfilment of role by the Nodal Agency including giving time extension to TSP, having regard to all the circumstances.

d. During the Consultation Period, both Parties shall, save as otherwise provided in this Agreement, continue to perform their respective obligations/ roles under this Agreement.

13.4 Termination due to Force Majeure

13.4.1 In case the Parties could not reach an agreement pursuant to Articles 3.3.4 and 4.4.2 of this Agreement and the Force Majeure Event or its effects continue to be present, the Nodal Agency shall have the right to cause termination of the Agreement. In case of such termination, the Contract Performance Guarantee shall be returned to the TSP as per the provisions of Article 6.5.1.

13.4.2 In case of termination of this Agreement, the TSP shall provide to the Nodal Agency the full names and addresses of its Contractors as well as complete designs, design drawings, manufacturing drawings, material specifications and technical information, as required by the Nodal Agency within thirty (30) days of Termination Notice.

13.5 Termination or amendment due to non-requirement of any Element or Project during construction

13.5.1 In case any Element or Project, which is under construction, is no longer required due to any reason whatsoever, the Nodal Agency may issue a notice to this effect to the TSP.

13.5.2 Nodal agency may also issue notice to the TSP seeking their response to the proposed termination/ amendment (as the case may be) of the Agreement. The Nodal Agency shall issue copy of such notice to Lenders. In the notice, Nodal Agency

shall also include an assessment of the physical progress made by TSP in the Element/ Project (as the case may be) that is no longer required.

13.5.3 The TSP shall neither carry out further investment nor carry out any work on the Element/ Project (as the case may be) that is no longer required after delivery of the notice.

13.5.4 After taking into account the comments of the TSP, the Nodal Agency may terminate the Agreement or amend it if both Parties agree to the amendment.

13.6 Revocation of the Transmission License

13.6.1 The Commission may, as per the provisions of the Electricity Act, 2003, revoke the Transmission License of the ISTS Licensee. Further, in such a case, the Agreement shall be deemed to have been terminated.

13.7 Termination Payment

13.7.1 If Agreement is terminated on account of Force Majeure Events, non-requirement of any Element or Project during Construction, Nodal Agency's non-fulfilment of Role & TSP's Event of Default, the TSP shall be entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Nodal Agency shall take over the Project Assets.

ARTICLE: 14

14. LIABILITY AND INDEMNIFICATION

14.1 Indemnity

14.1.1 The TSP shall indemnify, defend and hold the Nodal Agency harmless against:

(a) any and all third party claims, actions, suits or proceedings against the Nodal Agency for any loss of or damage to property of such third party, or death or injury to such third party, arising out of a breach by the TSP of any of its obligations under this Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent act or omission, breach of this Agreement or non-fulfilment of statutory duty on the part of Nodal Agency; and

(b) any and all losses, damages, costs and expenses including legal costs, fines, penalties and interest actually suffered or incurred by the Nodal Agency from third party claims arising by reason of:

i. a breach by the TSP of any of its obligations under this Agreement, (provided that this Article 14 shall not apply to such breaches by the TSP, for which specific remedies have been provided for under this Agreement) except to the extent that any such losses, damages, costs and expenses including legal costs, fines, penalties and interest (together to constitute "Indemnifiable Losses") has arisen due to a negligent act or omission, breach of this Agreement or non-fulfilment of statutory duty on the part of the Nodal Agency, or

ii. any of the representations and warranties of the TSP under this Agreement being found to be inaccurate or untrue.

14.1.2 The Nodal Agency shall, in accordance with the Regulations framed by CERC in this regard, indemnify, defend and hold the TSP harmless against:

(a) any and all third party claims, actions, suits or proceedings against the TSP, for any loss of or damage to property of such third party, or death or injury to such third party, arising out of any material breach by the Nodal Agency of any of their roles under this Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent act or omission, breach of this Agreement or breach of statutory duty on the part of the TSP, its Contractors, servants or agents; and

(b) any and all losses, damages, costs and expenses including legal costs, fines, penalties and interest ('Indemnifiable Losses') actually suffered or incurred

by the TSP from third party claims arising by reason of:

i. any material breach by the Nodal Agency of any of its roles under this Agreement (provided that, this Article 14 shall not apply to such breaches by the Nodal Agency, for which specific remedies have been provided for under this Agreement), except to the extent that any such Indemnifiable Losses have arisen due to a negligent act or omission, breach of this Agreement or breach of statutory duty on the part of the TSP, its Contractors, servants or agents or

ii. any of the representations and warranties of the Nodal Agency under this Agreement being found to be inaccurate or untrue.

14.2 Patent Indemnity:

14.2.1

(a) The TSP shall, subject to the Nodal Agency's compliance with Article 14.2.1 (b), indemnify and hold harmless the Nodal Agency and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Nodal Agency may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Agreement by reason of the setting up of the Project by the TSP.

Such indemnity shall not cover any use of the Project or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Agreement, any infringement resulting from the misuse of the Project or any part thereof, or any products produced in association or combination with any other equipment, plant or materials not supplied by the TSP, pursuant to the Agreement.

(b) If any proceedings are brought or any claim is made against the Nodal Agency arising out of the matters referred to in Article 14.2.1(a), the Nodal Agency shall promptly give the TSP a notice thereof, and the TSP shall at its own expense take necessary steps and attend such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. The TSP shall promptly notify the Nodal Agency of all actions taken in such proceedings or claims.

(c) If the TSP fails to notify the Nodal Agency within twenty-eight (28) days after receipt of such notice from the Nodal Agency under Article 14.2.1(b) above,

that it intends to attend any such proceedings or claim, then the Nodal Agency shall be free to attend the same on their own behalf at the cost of the TSP. Unless the TSP has so failed to notify the Nodal Agency within the twenty eight (28) days period, the Nodal Agency shall make no admission that may be prejudicial to the defence of any such proceedings or claims.

(d) The Nodal Agency shall, at the TSP's request, afford all available assistance to the TSP in attending to such proceedings or claim, and shall be reimbursed by the TSP for all reasonable expenses incurred in so doing.

14.2.2

(a) The Nodal Agency, in accordance with the Regulations framed by CERC in this regard, subject to the TSP's compliance with Article 14.2.2(b) shall indemnify and hold harmless the TSP and its employees, officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs and expenses of whatsoever nature, including attorney's fees and expenses, which the TSP may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Agreement by reason of the setting up of the Project by the TSP.

(b) If any proceedings are brought or any claim is made against the TSP arising out of the matters referred to in Article 14.2.2 (a) the TSP shall promptly give the Nodal Agency a notice thereof, and the Nodal Agency shall at its own expense take necessary steps and attend such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. The Nodal Agency shall promptly notify the TSP of all actions taken in such proceedings or claims.

(c) If the Nodal Agency fails to notify the TSP within twenty-eight (28) days after receipt of such notice from the TSP under Article 14.2.2(b) above, that it intends to attend any such proceedings or claim, then the TSP shall be free to attend the same on its own behalf at the cost of the Nodal Agency. Unless the Nodal Agency has so failed to notify the TSP within the twenty (28) days period, the TSP shall make no admission that may be prejudicial to the defence of any such proceedings or claim.

(d) The TSP shall, at the Nodal Agency request, afford all available assistance to the Nodal Agency in attending to such proceedings or claim, and shall be reimbursed by the Nodal Agency for all reasonable expenses incurred in so doing.

14.3 Monetary Limitation of liability

14.3.1 A Party ("Indemnifying Party") shall be liable to indemnify the other Party ("Indemnified Party") under this Article 14 for any indemnity claims made in a Contract Year only up to an amount of **Rs.5.87 Crore (Rupees Five Crore Eighty Seven Lakh Only).**

14.4 Procedure for claiming indemnity

14.4.1 Where the Indemnified Party is entitled to indemnification from the Indemnifying Party pursuant to Articles 14.1 or 14.2 the Indemnified Party shall promptly notify the Indemnifying Party of such claim, proceeding, action or suit referred to in Articles 14.1 or 14.2 in respect of which it is entitled to be indemnified. Such notice shall be given as soon as reasonably practicable after the Indemnified Party becomes aware of such claim, proceeding, action or suit. The Indemnifying Party shall be liable to settle the indemnification claim within thirty (30) days of receipt of the above notice.

Provided however that, if:

i. the Parties choose to contest, defend or litigate such claim, action, suit or proceedings in accordance with Article 14.4.3 below; and

ii. the claim amount is not required to be paid/deposited to such third party pending the resolution of the Dispute,

the Indemnifying Party shall become liable to pay the claim amount to the Indemnified Party or to the third party, as the case may be, promptly following the resolution of the Dispute, if such Dispute is not settled in favour of the Indemnified Party.

14.4.2 The Indemnified Party may contest, defend and litigate a claim, action, suit or proceeding for which it is entitled to be indemnified under Articles 14.1 or 14.2 and the Indemnifying Party shall reimburse to the Indemnified Party all reasonable costs and expenses incurred by the Indemnified Party. However, such Indemnified Party shall not settle or compromise such claim, action, suit or proceedings without first getting the consent of the Indemnifying Party, which consent shall not be unreasonably withheld or delayed.

14.4.3 An Indemnifying Party may, at its own expense, assume control of the defence of any proceedings brought against the Indemnified Party if it acknowledges its obligation to indemnify such Indemnified Party, gives such Indemnified Party prompt notice of its intention to assume control of the defence, and employs an independent legal counsel at its own cost that is reasonably satisfactory to the Indemnified Party.

14.5 Limitation on Liability

14.5.1 Except as expressly provided in this Agreement, neither the TSP nor the Nodal

Agency nor their respective officers, directors, agents, employees or Affiliates (including, officers, directors, agents or employees of such Affiliates), shall be liable or responsible to the other Party or its Affiliates including its officers, directors, agents, employees, successors, insurers or permitted assigns for incidental, indirect or consequential, punitive or exemplary damages, connected with or resulting from performance or non-performance of this Agreement, or anything done in connection herewith, including claims in the nature of lost revenues, income or profits (other than payments expressly required and properly due under this Agreement), any increased expense of, reduction in or loss of transmission capacity or equipment used therefore, irrespective of whether such claims are based upon breach of warranty, tort (including negligence, whether of the Nodal Agency, the TSP or others), strict liability, contract, breach of statutory duty, operation of law or otherwise.

14.5.2 The Nodal Agency shall have no recourse against any officer, director or shareholder of the TSP or any Affiliate of the TSP or any of its officers, directors or shareholders for such claims excluded under this Article. The TSP shall also have no recourse against any officer, director or shareholder of the Nodal Agency, or any Affiliate of the Nodal Agency or any of its officers, directors or shareholders for such claims excluded under this Article.

14.6 Duty to Mitigate

The party entitled to the benefit of an indemnity under this Article 14 shall take all reasonable measures to mitigate any loss or damage which has occurred. If the Party fails to take such measures, the other Party's liabilities shall be correspondingly reduced.

ARTICLE: 15

15. ASSIGNMENTS AND CHARGES

15.1 Assignments:

15.1.1 This Agreement shall be binding upon, and inure to the benefit of the Parties and their respective successors and permitted assigns. This Agreement shall not be assigned by any Party, except as provided in Article 15.3.

15.2 Permitted Charges:

15.2.1 Neither Party shall create or permit to subsist any encumbrance over all or any of its rights and benefits under this Agreement.

15.2.2 However, the TSP may create any encumbrance over all or part of the receivables, or the Project Assets of the Project in favour of the Lenders or the Lenders' Representative on their behalf, as security for amounts payable under the Financing Agreements and any other amounts agreed by the Parties.

Provided that:

i. the Lenders or the Lenders' Representative on their behalf shall have entered into the Financing Agreements and agreed in writing to the provisions of this Agreement; and

ii. any encumbrance granted by the TSP in accordance with this Article 15.2.2 shall contain provisions pursuant to which the Lenders or the Lender's Representative on their behalf agrees unconditionally with the TSP to release from such encumbrances upon payment by the TSP to the Lenders of all amounts due under the Financing Agreements.

15.2.3 Article 15.2.1 does not apply to:

a. liens arising by operation of law (or by an agreement evidencing the same) in the ordinary course of the TSP developing and operating the Project;

b. pledges of goods, the related documents of title and / or other related documents, arising or created in the ordinary course of the TSP developing and operating the Project; or

c. security arising out of retention of title provisions in relation to goods acquired in the ordinary course of the TSP developing and operating the Project.

15.3 Substitution Rights of the Lenders

15.3.1 The TSP would need to operate and maintain the Project under the provisions of this Agreement and cannot assign the Transmission License or transfer the Project or part thereof to any person by sale, lease, exchange or otherwise, without the prior approval of the Nodal Agency.

15.3.2 However, in the case of default by the TSP in debt repayments or in the case of default by the TSP as per Article 13 of this Agreement during the debt repayments, the Commission may, on an application from the Lenders, assign the Transmission License to the nominee of the Lenders subject to the fulfilment of the qualification requirements and provisions of the Central Electricity Regulatory Commission (Procedure, terms and Conditions for grant of Transmission License and other related matters) Regulations, 2006 and as amended from time to time.

ARTICLE: 16

16. GOVERNING LAW AND DISPUTE RESOLUTION

16.1 Governing Law:

This Agreement shall be governed by and construed in accordance with the Laws of India. Any legal proceedings in respect of any matters, claims or disputes under this Agreement shall be under the jurisdiction of appropriate courts in Delhi.

16.2 Amicable Settlement:

16.2.1 Either Party is entitled to raise any claim, dispute or difference of whatever nature arising under, out of or in connection with this Agreement, including its existence or validity or termination or whether during the execution of the Project or after its completion and whether prior to or after the abandonment of the Project or termination or breach of the Agreement by giving a written notice to the other Party, which shall contain:

(i) a description of the Dispute;

(ii) the grounds for such Dispute; and

(iii) all written material in support of its claim.

16.2.2 The other Party shall, within thirty (30) days of issue of notice issued under Article 16.2.1, furnish:

(i) counter-claim and defences, if any, regarding the Dispute; and

(ii) all written material in support of its defences and counter-claim.

16.2.3 Within thirty (30) days of issue of notice by the Party pursuant to Article 16.2.1, if the other Party does not furnish any counter claim or defense under Article 16.2.2, or thirty (30) days from the date of furnishing counter claims or defence by the other Party, both the Parties to the Dispute shall meet to settle such Dispute amicably. If the Parties fail to resolve the Dispute amicably within thirty (30) days from the later of the dates mentioned in this Article 16.2.3, the Dispute shall be referred for dispute resolution in accordance with Article 16.3.

16.3 Dispute Resolution:

All Disputes shall be adjudicated by the Commission.

16.4 Parties to Perform Obligations:

Notwithstanding the existence of any Dispute and difference referred to the Commission as provided in Article 16.3 and save as the Commission may otherwise direct by a final or interim order, the Parties hereto shall continue to perform their respective obligations/ roles (which are not in dispute) under this Agreement.

ARTICLE: 17

17. REPRESENTATION AND WARRANTIES

17.1 Representation and warranties of the Nodal Agency

17.1.1 The Nodal Agency hereby represents and warrants to and agrees with the TSP as follows and acknowledges and confirms that the TSP is relying on such representations and warranties in connection with the transactions described in this Agreement:

a. It has all requisite powers and authority to execute and consummate this Agreement;

b. This Agreement is enforceable against the Nodal Agency in accordance with its terms;

c. The consummation of the transactions contemplated by this Agreement on the part of Nodal Agency will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the Nodal Agency is a Party or to which the Nodal Agency is bound, which violation, default or power has not been waived;

17.2 Representation and Warranties of the TSP:

17.2.1 The TSP hereby represents and warrants to and agrees with the Nodal Agency as follows and acknowledges and confirms that the Nodal Agency is relying on such representations and warranties in connection with the transactions described in this Agreement:

a. It has all requisite powers and has been duly authorized to execute and consummate this Agreement;

b. This Agreement is enforceable against it, in accordance with its terms;

c. The consummation of the transactions contemplated by this Agreement on the part of the TSP will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the TSP is a Party or to which the TSP is bound which violation, default or power has not been waived;

d. The TSP is not insolvent and no insolvency proceedings have been instituted, nor threatened or pending by or against the TSP;

e. There are no actions, suits, claims, proceedings or investigations pending or, to the best of the TSP's knowledge, threatened in writing against the TSP at law, in equity, or otherwise, and whether civil or criminal in nature, before or by, any court, commission, arbitrator or governmental agency or authority, and there are no outstanding judgments, decrees or orders of any such courts, commission, arbitrator or governmental agencies or authorities, which materially adversely affect its ability to execute the Project or to comply with its obligations under this Agreement.

17.2.2 The TSP makes all the representations and warranties above to be valid as on the Effective Date of this Agreement.

ARTICLE: 18

18. INDEPENDENT ENGINEER

18.1 Appointment of Independent Engineer

The Nodal Agency shall appoint an agency/ company as Independent Engineer as per framework provided in the Guidelines for Encouraging Competition in Development of Transmission Projects for selection of Independent Engineer.

18.2 Roles and functions of Independent Engineer

The role and functions of the Independent Engineer shall include the following:

a. Progress Monitoring as required under this Agreement;

b. Ensuring Quality as required under this Agreement;

c. determining, as required under the Agreement, the costs of any works or services and/or their reasonableness during construction phase;

d. determining, as required under the Agreement, the period or any extension thereof, for performing any duty or obligation during construction phase;

e. determining, as required under the Agreement, the valuation of the Project Assets.

f. Assisting the Parties in resolution of Disputes and

g. Undertaking all other duties and functions in accordance with the Agreement.

18.3 Remuneration of Independent Engineer

The fee and charges of the Independent Engineer shall be paid by the Nodal Agency as per terms & conditions of appointment.

18.4 Termination of appointment

18.4.1 The Nodal Agency may, in its discretion, terminate the appointment of the Independent Engineer at any time, but only after appointment of another Independent Engineer.

18.4.2 If the TSP has reason to believe that the Independent Engineer is not discharging its duties and functions in a fair, efficient and diligent manner, it may make a written representation to the Nodal Agency and seek termination of the appointment of the Independent Engineer. Upon receipt of such representation, the Nodal Agency shall

hold a tripartite meeting with the TSP and Independent Engineer for an amicable resolution, and the decision of Nodal agency is final. In the event that the appointment of the Independent Engineer is terminated hereunder, the Nodal Agency shall appoint forthwith another Independent Engineer.

18.5 Authorised signatories

The Nodal Agency shall require the Independent Engineer to designate and notify to the Nodal Agency up to 2 (two) persons employed in its firm to sign for and on behalf of the Independent Engineer, and any communication or document required to be signed by the Independent Engineer shall be valid and effective only if signed by any of the designated persons; provided that the Independent Engineer may, by notice in writing, substitute any of the designated persons by any of its employees.

ARTICLE: 19

19. MISCELLANEOUS PROVISIONS

19.1 Equity Lock-in Commitment:

19.1.1 The aggregate equity share holding of the Selected Bidder in the issued and paid up equity share capital of **KURNOOL IV REZ POWER TRANSMISSION LIMITED** shall not be less than Fifty one percent (51%) up to a period of one (1) year after COD of the Project.

Provided that, in case the Lead Member or Bidding Company is holding equity through Affiliate/s, Ultimate Parent Company or Parent Company, such restriction as specified above shall apply to such entities.

Provided further, that in case the Selected Bidder is a Bidding Consortium, the Lead Member shall continue to hold equity of at least twenty six percent (26%) upto a period of one (1) year after COD of the Project and any Member of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified above.

19.1.2 If equity is held by the Affiliates, Parent Company or Ultimate Parent Company of the Selected Bidder, then, subject to the second proviso to Article 19.1.1, such Affiliate, Parent Company or Ultimate Parent Company shall be eligible to transfer its shareholding in **KURNOOL IV REZ POWER TRANSMISSION LIMITED** to another Affiliate or to the Parent Company / Ultimate Parent Company of the Selected Bidder. If any such shareholding entity, qualifying as an Affiliate / Parent Company / Ultimate Parent Company, is likely to cease to meet the criteria to qualify as an Affiliate / Parent Company / Ultimate Parent Company, the shares held by such entity shall be transferred to another Affiliate / Parent Company / Ultimate Parent Company of the Selected Bidder.

19.1.3 Subject to Article 19.1.1, all transfer(s) of shareholding of **KURNOOL IV REZ POWER TRANSMISSION LIMITED** by any of the entities referred to in Article 19.1.1 and 19.1.2 above, shall be after prior written intimation to the Nodal Agency.

19.1.4 For computation of effective Equity holding, the Equity holding of the Selected Bidder or its Ultimate Parent Company in such Affiliate(s) or Parent Company and the equity holding of such Affiliate(s) or Ultimate Parent Company in **KURNOOL IV REZ POWER TRANSMISSION LIMITED** shall be computed in accordance with the example given below:

If the Parent Company or the Ultimate Parent Company of the Selected Bidder A directly holds thirty percent (30%) of the equity in **KURNOOL IV REZ POWER TRANSMISSION LIMITED,** then holding of Selected Bidder A in **KURNOOL IV REZ POWER TRANSMISSION LIMITED** shall be thirty percent (30%);

If Selected Bidder A holds thirty percent (30%) equity of the Affiliate and the Affiliate holds fifty percent (S0%) equity in **KURNOOL IV REZ POWER TRANSMISSION LIMITED,** then, for the purposes of ascertaining the minimum equity/equity lock-in requirements specified above, the effective holding of Bidder A in **KURNOOL IV REZ POWER TRANSMISSION LIMITED** shall be fifteen percent (15%), (i.e., 30% x S0%)

19.1.5 The provisions as contained in this Article 19.1 shall override the terms of the consortium agreement submitted as part of the Bid.

19.1.6 The TSP shall be responsible to report to Nodal Agency, within thirty (30) days from the occurrence of any event that would result in any change in its equity holding structure from that which existed as on the date of signing of the Share Purchase Agreement. In such cases, the Nodal Agency would reserve the right to ascertain the equity holding structure and to call for all such required documents / information / clarifications as may be required.

19.2 Commitment of maintaining Qualification Requirement

19.2.1 The Selected Bidder will be required to continue to maintain compliance with the Qualification Requirements, as stipulated in RFP Document, till the COD of the Project. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the COD of the Project.

19.2.2 Failure to comply with the aforesaid provisions shall be dealt in the same manner as TSP's Event of Default as under Article 13 of this Agreement.

19.3 Language:

19.3.1 All agreements, correspondence and communications between the Parties relating to this Agreement and all other documentation to be prepared and supplied under the Agreement shall be written in English, and the Agreement shall be construed and interpreted in accordance with English language.

19.3.2 If any of the agreements, correspondence, communications or documents are prepared in any language other than English, the English translation of such

agreements, correspondence, communications or documents shall prevail in matters of interpretation.

19.4 Affirmation

The TSP and the Nodal Agency, each affirm that:

1. neither it nor its respective directors, employees, or agents has paid or undertaken to pay or shall in the future pay any unlawful commission, bribe, pay-off or kick-back; and
2. it has not in any other manner paid any sums, whether in Indian currency or foreign currency and whether in India or abroad to the other Party to procure this Agreement, and the TSP and the Nodal Agency hereby undertake not to engage in any similar acts during the Term of Agreement.

19.5 Severability

The invalidity or enforceability, for any reason, of any part of this Agreement shall not prejudice or affect the validity or enforceability of the remainder of this Agreement, unless the part held invalid or unenforceable is fundamental to this Agreement.

19.6 Counterparts

This Agreement may be executed in one or more counterparts, each of which shall be deemed an original and all of which collectively shall be deemed one and the same Agreement.

19.7 Breach of Obligations/ Roles

The Parties acknowledge that a breach of any of the obligations/ roles contained herein would result in injuries. The Parties further acknowledge that the amount of the liquidated damages or the method of calculating the liquidated damages specified in this Agreement is a genuine and reasonable pre-estimate of the damages that may be suffered by the non-defaulting Party in each case specified under this Agreement

19.8 Restriction of Shareholders / Owners Liability

19.8.1 Parties expressly agree and acknowledge that none of the shareholders of the Parties hereto shall be liable to the other Parties for any of the contractual obligations of the concerned Party under this Agreement.

19.8.2 Further, the financial liabilities of the shareholder(s) of each Party to this Agreement shall be restricted to the extent provided in the Indian Companies Act, 1956 /

Companies Act, 2013 (as the case may be).

19.9 Taxes and Duties:

19.9.1 The TSP shall bear and promptly pay all statutory taxes, duties, levies and cess, assessed/levied on the TSP, its Contractors or their employees that are required to be paid by the TSP as per the Law in relation to the execution of the Project and for providing Transmission Service as per the terms of this Agreement.

19.9.2 The Nodal Agency shall be indemnified and held harmless by the TSP against any claims that may be made against the Nodal Agency in relation to the matters set out in Article 19.9.1.

19.9.3 The Nodal Agency shall not be liable for any payment of, taxes, duties, levies, cess whatsoever for discharging any obligation of the TSP by the Nodal Agency on behalf of TSP or its personnel, provided the TSP has consented in writing to the Nodal Agency for such work, for which consent shall not be unreasonably withheld.

19.10 No Consequential or Indirect Losses

The liability of the TSP shall be limited to that explicitly provided in this Agreement.

Provided that, notwithstanding anything contained in this Agreement, under no event shall the Nodal Agency or the TSP claim from one another any indirect or consequential losses or damages.

19.11 Discretion:

Except where this Agreement expressly requires a Party to act fairly or reasonably, a Party may exercise any discretion given to it under this Agreement in any way it deems fit.

19.12 Confidentiality

19.12.1 The Parties undertake to hold in confidence this Agreement and RFP Project Documents and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

(a) to their professional advisors;

(b) to their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities; or

(c) disclosures required under Law,

without the prior written consent of the other Parties.

Provided that, the TSP agrees and acknowledges that the Nodal Agency, may, at any time, disclose the terms and conditions of the Agreement and the RFP Project Documents to any person, to the extent stipulated under the Law and the Competitive Bidding Guidelines.

19.13 Order of priority in application:

Save as provided in Article 2.5, in case of inconsistencies between the terms and conditions stipulated in Transmission License issued by the Commission to the TSP, agreement(s) executed between the Parties, applicable Law including rules and regulations framed thereunder, the order of priority as between them shall be the order in which they are placed below:

- terms and conditions of Transmission License;
- applicable Law, rules and regulations framed thereunder;
- this Agreement;
- Agreement(s), if any, under Sharing Regulations.

19.14 Independent Entity:

19.14.1 The TSP shall be an independent entity performing its obligations pursuant to the Agreement.

19.14.2 Subject to the provisions of the Agreement, the TSP shall be solely responsible for the manner in which its obligations under this Agreement are to be performed. All employees and representatives of the TSP or Contractors engaged by the TSP in connection with the performance of the Agreement shall be under the complete control of the TSP and shall not be deemed to be employees, representatives, Contractors of the Nodal Agency and nothing contained in the Agreement or in any agreement or contract awarded by the TSP shall be construed to create any contractual relationship between any such employees, representatives or Contractors and the Nodal Agency.

19.15 Amendments:

19.15.1 This Agreement may only be amended or supplemented by a written agreement between the Parties.

19.16 Waiver:

19.16.1 No waiver by either Party of any default or breach by the other Party in the

performance of any of the provisions of this Agreement shall be effective unless in writing duly executed by an authorised representative of such Party.

19.16.2 Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement nor time or other indulgence granted by one Party to the other Parties shall act as a waiver of such breach or acceptance of any variation or the relinquishment of any such right or any other right under this Agreement, which shall remain in full force and effect.

19.17 Relationship of the Parties:

This Agreement shall not be interpreted or construed to create an association, joint venture, or partnership or agency or any such other relationship between the Parties or to impose any partnership obligation or liability upon either Party and neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

19.18 Entirety:

19.18.1 This Agreement along with its sections, schedules and appendices is intended by the Parties as the final expression of their agreement and is intended also as a complete and exclusive statement of the terms of their agreement.

19.18.2 Except as provided in this Agreement, all prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement or the provision of Transmission Service under this Agreement to the Nodal Agency by the TSP shall stand superseded and abrogated.

19.19 Notices:

19.19.1 All notices or other communications which are required to be given under this Agreement shall be in writing and in the English language

19.19.2 If to the TSP, all notices or communications must be delivered personally or by registered post or facsimile or any other mode duly acknowledged to the addressee below:

Address	:	RHZ Infinity, 5th Floor, Plot No.15, Phase-IV, Udyog Vihar, Gurugram-122015, Haryana
Attention	:	T. Amarendranath Reddy
Email	:	tan.reddy@reconia.com
Fax. No.	:	
Telephone No.	:	9310490976

19.19.3 If to the Nodal Agency, all notices or communications must be delivered personally or by registered post or facsimile or any other mode duly acknowledged to the addresses below:

(i) **Central Transmission Utility of India Limited (Nodal Agency)**

Address	: 5th to 10th Floor, IRCON International Tower, Tower No-1, Plot No-16, Sector-32, Gurugram Haryana: 122003
Attention	: Ramachandra, Sr GM
Email	: ramachand@powergrid.in
Fax. No.	:
Telephone No.	: 9910378128

19.19.4 All notices or communications given by facsimile shall be confirmed by sending a copy of the same via post office in an envelope properly addressed to the appropriate Party for delivery by registered mail. All notices shall be deemed validly delivered upon receipt evidenced by an acknowledgement of the recipient, unless the Party delivering the notice can prove in case of delivery through the registered post that the recipient refused to acknowledge the receipt of the notice despite efforts of the postal authorities.

19.19.5 Any Party may by notice of at least fifteen (15) days to the other Party change the address and/or addresses to which such notices and communications to it are to be delivered or mailed.

19.20 Fraudulent and Corrupt Practices

19.20.1 The TSP and its respective officers, employees, agents and advisers shall observe the highest standard of ethics during the subsistence of this Agreement. Notwithstanding anything to the contrary contained in the Agreement, the Nodal Agency may terminate the Agreement without being liable in any manner whatsoever to the TSP, if it determines that the TSP has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bid process. In such an event, the Nodal Agency shall forfeit the Contract Performance Guarantee of the TSP, without prejudice to any other right or remedy that may be available to the Nodal Agency hereunder or subsistence otherwise.

19.20.2 Without prejudice to the rights of the Nodal Agency under Clause 19.20.1 hereinabove and the rights and remedies which the Nodal Agency may have under this Agreement, if a TSP is found by the Nodal Agency to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent

practice, coercive practice, undesirable practice or restrictive practice during the Bid process, or after the issue of Letter of Intent (hereinafter referred to as LoI) or after the execution of the agreement(s) required under Sharing Regulations, the Nodal Agency may terminate the Agreement without being liable in any manner whatsoever to the TSP. Further, the TSP & its Affiliates shall not be eligible to participate in any tender or RFP issued by any BPC for an indefinite period from the date such TSP is found by the Nodal Agency to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.

19.20.3 For the purposes of this Clause 19.20, the following terms shall have the meaning hereinafter respectively assigned to them:

(a) **"corrupt practice"** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bid process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the BPC who is or has been associated or dealt in any manner, directly or indirectly with the Bid process or the LoI or has dealt with matters concerning the RFP Project Documents or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the BPC, shall be deemed to constitute influencing the actions of a person connected with the Bid Process); or (ii) engaging in any manner whatsoever, whether during the Bid Process or after the issue of the LoI or after the execution of the RFP Project Documents, as the case may be, any person in respect of any matter relating to the Project or the LoI or the RFP Project Documents, who at any time has been or is a legal, financial or technical adviser of the BPC in relation to any matter concerning the Project;

(b)**"fraudulent practice"** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bid process;

(c) **"coercive practice"** means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bid process;

(d) **"undesirable practice"** means (i) establishing contact with any person connected with or employed or engaged by the BPC with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bid process; or (ii) having a Conflict of Interest; and

(e) "**restrictive practice**" means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bid process;

19.21 Compliance with Law:

Despite anything contained in this Agreement but without prejudice to Article 12, if any provision of this Agreement shall be in deviation or inconsistent with or repugnant to the provisions contained in the Electricity Act, 2003, or any rules and regulations made there under, such provision shall be deemed to be amended to the extent required to bring it into compliance with the aforesaid relevant provisions as amended from time to time.

Transmission Service Agreement

IN WITNESS WHEREOF, THE PARTIES HAVE CAUSED THIS AGREEMENT TO BE EXECUTED BY THEIR DULY AUTHORISED REPRESENTATIVES AS OF THE DATE AND PLACE SET FORTH ABOVE.

1. For and on behalf of TSP

.....

[Signature, Name, Designation and Address]

T. Amarendranath Reddy
(Director)

2. For and on behalf of **Central Transmission Utility of India Limited (Nodal Agency)**

.....

KAMAL KUMAR JAIN
Senior General Manager
सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड
CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED
(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड की पूर्ण स्वामित्व कंपनी)
(A wholly owned subsidiary of POWERGRID)
5th-10th Floor, Ircon International Tower-1, Plot No.-16, Sector-32, Gurugram-122003

[Signature, Name, Designation and Address]

WITNESSES:

1. For and on behalf of

: **BPC**

.....

[Signature]

Nirmala Meena, DGM, PFCCL
.....

[Insert, Name, Designation and Address of the Witness]

2. For and on behalf of

: **Nodal Agency**

.....

[Signature]

KURNOOL IV REZ POWER TRANSMISSION LTD. NEW DELHI

.....

[Insert Name, Designation and Address of the Witness]

DEEPAK KRISHNAN
Chief Manager
सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड
CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED
(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड की पूर्ण स्वामित्व कंपनी)
(A wholly owned subsidiary of POWERGRID)
5th-10th Floor, Ircon International Tower-1, Plot No.-16, Sector-32, Gurugram-122003

KURNOOL IV REZ POWER TRANSMISSION LIMITED

SCHEDULES

Transmission Service Agreement

Schedule: 1

Project Description and Scope of Project

A. Description of the Transmission Scheme

Govt. of India has set a target of 500 GW generation capacity from non-fossil fuel resources by 2030. In this direction, MNRE has identified addition of 86 GW RE Potential in the State of Andhra Pradesh, Telangana, Karnataka and Tamil Nadu (Offshore) in Southern Region. Out of the identified (86 GW) RE Potential in Southern Region, 51 GW has been identified in the State of Andhra Pradesh (Ananthapur– 20 GW, Kurnool – 23 GW & Kadapa – 8 GW).

Transmission System for integration of Kurnool-IV REZ was evolved for potential REZ in Kurnool area in two phases. Presently, Transmission System for integration of Kurnool-IV REZ Phase-I is under implementation and details of the transmission scheme is as below:

Transmission System for Integration of Kurnool-IV REZ - Phase-I

- Establishment of 4x1500 MVA, 765/400 kV & 4x500 MVA, 400/220 kV Kurnool-IV Pooling Station near Kurnool, Andhra Pradesh along with 2x330 MVAr (765 kV) bus reactors at Kurnool-IV PS with provision of two (2) sections of 4500 MVA each at 400 kV level
- Kurnool-IV – Bidar 765 kV D/C line (about 330 kms) with 330 MVAr SLR (convertible) at both end on both circuits
- Kurnool-IV – Kurnool-III PS 765 kV D/C line (about 150 kms) with 240 MVAr SLR (convertible) at Kurnool-IV end on both circuits
- ± 300 MVAr STATCOM at Kurnool-IV, 2x125 MVAr MSR
- Augmentation of 1x1500 MVA, 765/400 kV ICT (3rd) at C'Peta
- LILO of Vijayawada-Nellore 400 kV D/C line at C'Peta (about 20 kms)

Presently, Connectivity of about 4300 MW (3403 MW at 220 kV level and 900 MW at 400 kV level) has been granted / agreed for grant at Kurnool-IV PS with Phase-I Transmission System. In addition to the above, connectivity of about 3200 MW (2700 MW at 220 kV level and 500 MW at 400 kV) has already been received at Kurnool-IV PS. In view of above, for grant of connectivity to above applications, additional system strengthening scheme beyond Kurnool-IV PS is required. Accordingly, Transmission System for Integration of Kurnool-IV REZ - Phase-II was identified.

The Transmission System was discussed and agreed in the 36th CMETS-SR held on 19.12.2024. The scheme was further discussed and agreed in the special SRPC meeting held on 04.02.2025.

The National Committee on Transmission in its 2B[th] meeting held on 06.03.2025 has recommended the implementation of the subject transmission scheme through TBCB route and has identified the PFCCL as BPC for bidding of the transmission scheme.

Ministry of Power vide Gazette notification dated 27.03.2025 has notified the transmission scheme for implementation through TBCB route.

B. Detailed Scope of Work

Transmission System for Kurnool-IV REZ - Phase-II (3 GW)		
S No.	**Name of Transmission Element**	**Scheduled COD in months from Effective Date**
1.	Augmentation of Kurnool-IV P5 by 400/220 kV, 4x500 MVA ICTs. • 400/220kV, 500 MVA, ICTs – 4 nos. • 400kV ICT bays – 4 nos. • 400kV Bus Sectionalizer: 1 set • 220kV ICT bays – 4 nos. • 220kV Bus Sectionalizer: 1 set • 220 kV Bus Coupler (BC) Bay – 1 nos. • 220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	24 Months (29.05.202B)
2.	220kV line bays at Kurnool-IV P5 for termination of dedicated transmission lines of RE generation projects • 220kV line bays – 5 nos.	24 Months (29.05.202B)
3.	400kV line bays at Kurnool-IV P5 for termination of dedicated transmission lines of RE generation projects • 400kV line bays – 1 no.	24 Months (29.05.202B)
4.	Augmentation of Kurnool-IV P5 by 765/400kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs • 765/400kV, 1500 MVA, ICTs – 2 nos. • 765kV ICT bays – 2 nos. • 400kV ICT bays – 2 nos. • 400/220kV, 500 MVA, ICTs – 6 nos. • 400kV ICT bays – 6 nos. • 220kV ICT bays – 6 nos. • 220kV Bus Sectionalizer: 1 set • 220 kV Bus Coupler (BC) Bay – 1 nos. • 220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	36 Months (29.05.2029)
5.	220kV line bays at Kurnool-IV P5 for termination of dedicated transmission lines of RE generation projects • 220kV line bays – B nos.	36 Months (29.05.2029)

6.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects • 400kV line bays – 1 no.	36 Months (29.05.2029)
7.	Establishment of 4x1500 MVA, 765/400 kV Ooma Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard • 765/400kV, 1500 MVA, ICTs – 4 nos. (13x500 MVA incl. 1 spare unit) • 765kV ICT bay – 4 nos. • 400kV ICT bay – 4 nos. • 765kV line bays – 4 nos. (at Doma for termination of LILO of Kurnool-IV – Bidar 765kV D/c line) • 765kV, 330 MVAr Bus Reactors – 2 nos. (7x110 MVAr inc. 1 switchable spare unit) • 765kV Bus Reactor bays – 2 nos. • 400kV line bays – 4 nos. (at Doma for termination of Doma – Shadnagar GIS (TGTRANSCO) and Doma – Kethiredipally (TGTRANSCO) 400 kV **Twin HTLS** D/c lines) **Future Space Provisions:** • 765/400kV, 1500 MVA, ICTs – 2 nos. • 765kV ICT bays – 2 nos. • 400kV ICT bays – 2 nos. • 765kV line bays – 8 nos. (with provision for SLR) • 400kV line bays – 8 nos. (with provision for SLR) • 400kV Bus Sectionalizer: 1 set **Future Space Provisions for 220kV switchyard:** • 400/220kV, 500 MVA, ICTs – 10 nos. • 400kV ICT bays – 10 nos. • 220kV ICT bays – 10 nos. • 220kV line bays – 16 nos. • 220kV Bus Sectionalizer: 3 set • 220 kV Bus Coupler (BC) Bay – 4 no. • 220 kV Transfer Bus Coupler (TBC) Bay – 4 no.	36 Months (29.05.2029)
8.	LILO of Kurnool-IV – Bidar 765kV D/c line at Doma (about **20 kms**)	36 Months (29.05.2029)
9.	Doma – Shadnagar GIS S/s (TGTRANSCO) 400 kV **Twin HTLS** D/c line (about **40 kms**) {TGTRANSCO to upgrade Shadnagar GIS (TGTRANSCO) S/s to 400 kV in matching time frame} • 400 kV GIS line bays – 2 Nos. (at Shadnagar GIS (TGTRANSCO))	36 Months (29.05.2029)
10.	Doma – Kethiredipally (TGTRANSCO) 400 kV **Twin HTLS** D/c line (about **50 kms**)	36 Months

	• 400kV line bays – 2 nos. (at Kethiredipally (TGTRANSCO))	(29.05.2029)

Note:

i) TSP of Kurnool-IV Phase-I shall provide space at Kurnool-IV PS for carrying out above augmentation works.

ii) TGTRANSCO shall provide space for 2 nos. of 400 kV line bays at Shadnagar GIS (TGTRANSCO) and Kethireddipally each for termination of Doma – Shadnagar (TGTRANSCO) 400 kV **Twin HTLS** D/C line and Doma – Kethiredipally (TGTRANSCO) 400 kV **Twin HTLS** D/C line.

iii) **For termination of Doma – Kethireddypally (TGTRANSCO) 400 kV Twin HTLS D/C line at Kethireddypally (TGTRANSCO), rerouting of 220 kV transmission line is required at Kethireddypally (TRGTRANSCO) S/s. The same will be done by TGTRANSCO at cost of TSP.**

iv) **TSP is required to build portion of Doma – Shadnagar GIS (TGTRANSCO) 400 kV Twin HTLS D/C line and Doma – Kethireddypally (TGTRANSCO) 400 kV Twin HTLS D/C line on 400 kV monopole towers for the densely populated/ urban / industrial area/ forest and near substations to avoid/ minimize RoW issue.**

SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE

The design, routing and construction of transmission lines shall be in accordance with Chapter V, Part A of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time. Other CEA Regulations/ guidelines as amended up to date and Ministry of Power (MoP) guidelines, as applicable, shall also be followed.

A.1.0 Selection of tower type shall be made as per CEA Regulations, however, in case lattice type towers are used, the following shall also be applicable:

A.2.0 Steel section of grade E 250 and/or grade E 350 as per IS 2062, only are permitted for use in towers, extensions, gantry structures and stub setting templates. For towers in snowbound areas, steel sections shall conform to Grade-C of IS-2062.

A.3.0 Towers shall be designed as per IS-802:2015, however the drag coefficient of the tower shall be as follows: -

Solidity Ratio	Drag Coefficient
Up to 0.05	3.6
0.1	3.4
0.2	2.9
0.3	2.5
0.4	2.2
0.5 and above	2.0

A.4.0 Transmission Service Provider (TSP) shall adopt any additional loading/ design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.

A.5.0 Transmission line shall be designed considering wind zones as specified in wind map given in National Building Code 2016, Vol.1. The developer shall also make his own assessment of local wind conditions and frequent occurrences of High Intensity Winds (HIW) due to thunderstorms, dust storms, downburst etc. along the line route and wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring reliability of line. Further, for transmission line sections passing within a distance of 50 km from the boundary of two wind zones, higher of the two wind zones shall be considered for design of towers located in such sections.

A.6.0 Selection of reliability level for design of tower shall be as per CEA Regulation (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

A.7.0

a) In case of construction of transmission line of Voltage level of 400 kV and above, under crossing of the existing transmission line shall not be allowed. In the case where it is inevitable to under-cross the existing transmission line then TSP shall seek prior approval from Chief Electrical Inspector, CEA with detailed study ensuring that all statutory electrical clearances and Electric Field limit of 10 kV/m at 1 m and 1.8 m from ground level is not violated.

b) For power line crossing of 400 kV or above voltage level, large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing.

c) For power line crossing of 132 kV and 220 kV (or 230 kV) voltage level, angle towers (B/C/D/DB/DC/DD/ QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

d) For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

e) For crossing of railway tracks, national highways and state highways, the rules/ regulations of appropriate authorities shall be followed.

A.8.0 The relevant conductor configuration shall be as follows: -

A. For LILO of Kurnool-IV – Bidar 765 kV D/C line at Doma

Type of conductor: ACSR / AAAC / AL59

Basic Parameters:

Transmission line	ACSR Conductor specified	Equivalent AAAC conductor based on 53.5% conductivity of Al Alloy	Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*	Sub-conductor Spacing
765 kV D/C (Hexa Bundle) Transmission Lines	**Zebra : Stranding** 54/3.18 mm-Al + 7/3.18 mm-Steel, 428 mm^2, Aluminium area, 28.62 mm diameter Maximum DC Resistance at 20°C (Ω/km): 0.06868 Minimum UTS: 130.32 kN	**Stranding details:** 61/3.19 mm, 487.5 mm^2 Aluminium alloy area 28.71 mm diameter Maximum DC Resistance at 20°C (Ω/km): 0.06815 Minimum UTS: 135.6 kN	**Stranding details:** 61/3.08 mm, 454 mm^2 Aluminium alloy area 27.72 mm diameter Maximum DC Resistance at 20°C (Ω/km): 0.0653 Minimum UTS: 108 kN	457 mm

B. For the following 400 kV lines:

i. **Doma – Shadnagar (TGTRANSCO) 400 kV Twin HTLS D/C line**

II. Doma – Kethiredipally (TGTRANSCO) 400 kV Twin HTLS D/C line

Type of conductor: HTLS (High Temp & low Sag)

Basic Parameters:

Transmission line	Ampacity of HTLS conductor	Minimum Conductor diameter (mm)	Maximum DC Resistance at 20°C (Ω/km)	Sub-conductor Spacing (mm)
400 kV Transmission lines with Twin HTLS conductor	1516* A	28.62	0.0549	450

**Considering minimum 2100 MVA per circuit capacity at nominal voltage level.*

A.9.0 The required phase to phase spacing and horizontal spacing for 765 kV and 400 kV line(s) shall be governed by the tower design as well as minimum live metal clearances for 765 kV and 400 kV voltage level under different insulator swing angles. However, the phase to phase spacing for 765 kV line shall not be less than 15 m and for 400 kV line shall not be less than 8 m.

A.10.0 All electrical clearances including minimum live metal clearance, ground clearance and minimum mid span separation between earth wire and conductor as given below shall be considered:

I. Minimum live metal clearances for 765 kV line:

a) (i) Under stationary conditions

From tower body: For 765 kV D/C: 6.1 m

For 765 kV S/C: 5.6 m

(ii) Under swing conditions

Wind Pressure Condition	Minimum Electrical Clearance
a) Swing angle (25º)	4.4 m
b) Swing angle (55º)	1.3 m

(iii) Minimum ground clearance for 765 kV line: 18 m

(iv) Minimum mid span separation between earth-wire and conductor for 765 kV line: 9.0 m

II. Minimum live metal clearances for 400 kV line:

(i) Under stationary conditions

From tower body: 3.05 m

(ii) Under swing conditions

Wind pressure Condition	Minimum electrical clearance
a) Swing angle (22º)	3.05 m
b) Swing angle (44º)	1.86 m

(iii) Minimum ground clearance for 400 kV line: 8.84 m

(iv) Minimum mid span separation between earth-wire and conductor for 400 kV line: 9.0 m

A.11.0 Shielding angle shall not exceed 10 deg for 765 kV D/C and 20 deg for 400 kV D/C Line transmission line.

A.12.0 The Fault current for design of line shall be 50 kA for 1 sec for 765 kV and 63 kA for 1 sec for 400 kV.

A.13.0 In case of 400 kV and above voltage class lines, at least one out of two earth wires shall be OPGW and second earth wire, if not OPGW, shall be either of Galvanized Stranded Steel (GSS) or Aluminum Alloy Conductor Steel Reinforced (AACSR) conductor type or any other suitable conductor type depending upon span length and other technical consideration.

A.14.0 Each tower shall be earthed such that tower footing impedance does not exceed 10 ohms. Pipe type or Counterpoise type earthing shall be provided in accordance with relevant IS. Additional earthing shall be provided on every 7 to 8 km distance for direct earthing of both shield wires. If site condition demands, multiple earthing or use of earthing enhancement compound shall be used.

A.15.0 Pile type foundation shall be used for towers located in river or creek bed or on bank of river having scourable strata or in areas where river flow or change in river course is anticipated, based on detailed soil investigation and previous years' maximum flood discharge of the river, maximum velocity of water, highest flood level, scour depth and anticipated change in course of river based on river morphology data of at least past 20 years to ensure availability and reliability of the transmission line.

A.16.0 Transmission line route shall be finalized, in consultation with appropriate authorities so as to avoid the habitant zones of endangered species and other protected species. Bird diverters, wherever required, shall be provided on the transmission line. In order to optimize the route, use of GATISHAKTI platform shall also be made.

A.17.0 Wherever, the transmission lines are passing through cyclone prone areas i.e., areas up to 60 km from coast following shall also be applicable:

a) Terrain category-I, with terrain roughness factor (K2) of 1.08 shall be considered for tower design for exposed open terrain with few or no obstruction, which also includes open sea coasts, open stretch of water, desert and flat treeless plains.

b) Importance factor for cyclonic region (K4) of 1.3 shall be considered for tower design.

c) The number of consecutive spans between the section points/ angle point

shall not exceed 10 spans or 3 km instead of conventional practice of 15 spans or 5 km, in order to reduce the failure of such towers in coastal areas due to cascading effect. The section shall be terminated with tension tower/ angle tower and angle of deviation should be based on the site requirement.

A.18.0 Wherever, transmission lines are passing through cyclone prone areas (i.e. areas up to 60 km from coast)/ creek regions/ aggressive soil areas following shall also be applicable:

a) The fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 g/m^2 of surface area except for plates and sections below 5 mm which shall have a minimum overall zinc coating of 610 g/m^2 of surface area. The average zinc coating for all sections and plates 5 mm and above shall be maintained as 127 microns and that for plates and sections below 5 mm shall be maintained as 87 microns.

b) Ready mix concrete of M30 Grade shall be used to avoid use of locally available saline water. However, design mix concrete of M30 Grade conforming to IS 456 with potable water can be used at locations where transportation of ready-mix concrete is not feasible. Minimum cement content in any case shall not be less than 330 kg/m^3.

c) The surface of the reinforced steel shall be treated with epoxy-based coating to enhance corrosion performance of foundation. Use of epoxy coated reinforcement in foundation shall be as per IS 13620. In addition, two (2) coats of bituminous painting of minimum 1.6 kg/m^2 per coat shall be applied on all exposed faces of foundation (i.e. pedestal and base slab).

d) Double coat 20 mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300 mm below ground level to give protection to concrete surface from environmental and saline effect.

e) Before coping of chimney top portion, three coats of anti-corrosive paint of minimum 30-35 microns dry film thickness each shall be applied on the stub in the 50 mm coping portion as well as up to 350 mm above CL portion.

A.19.0 The raised chimney foundation is to be provided in areas prone to flooding/water stagnation like paddy field /agricultural field and undulated areas to avoid direct contact of water with steel part of tower. The top of the chimney of foundation should be at least above HFL (High Flood Level) or the historical water stagnation/ logging level (based on locally available data) or above High Tide Level or 500 mm above Natural Ground level (whichever is higher).

A.20.0 Routing of transmission line through protected areas of India shall be avoided to the extent possible. In case, it is not possible to avoid protected areas, the towers of the transmission line up to 400 kV level, which are installed in protected areas shall be designed for Multicircuit (4 circuits) configuration of same voltage level considering reliability level of at least two (2). The top two circuits of these multi-circuit towers shall be used for stringing of the transmission line under present scope and the bottom two circuits shall be made available for stringing of any future transmission line of any transmission service providers/ State transmission utilities/Central transmission utilities passing through the same protected area. Further, the

configuration and coordinates of such transmission towers shall be submitted to CEA, CTU and BPC by the TSP.

A.21.0 The TSP shall abide by the Guidelines of CEA w.r.t. shifting of transmission lines for NHAI projects and other projects.

A.22.0 Safety precautions in regards to gas/oil pipelines in vicinity of Transmission lines shall be taken in coordination with gas/ petroleum authorities.

A.23.0 The stringing of the transmission line in the forest area shall be carried out through drones.

A.24.0 The tower shall be designed considering the porcelain Insulators with creepage factor of 31 mm/ kV irrespective of type of insulator used.

A.25.0 RoW width and Span in different terrain shall be as per Schedule VII of CEA (Technical Standards for Construction of Electrical plants and Electric Lines) Regulations 2022 and RoW guidelines issued vide CEA-PS-14-86/2/2019-PSETD Division dated 24.09.2024.

SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION

The proposed **Doma S/s** shall be conventional Air Insulated Substation (AIS) type conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, as amended from time to time.

Extension of **Kurnool IV PS,** and **Kethiredipally (TGTRANSCO) S/s** shall be conventional AIS type conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

Extension of **Shadnagar (TGTRANSCO) S/s** shall be Gas Insulated Substation (GIS) type conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

Other CEA Regulations/guidelines as amended up to date and MoP guidelines, as applicable, shall also be followed.

B.1.0 Salient features of Substation Equipment and Facilities

The design and specification of substation equipment are to be governed by the following factors:

B.1.1 Insulation Coordination

The system design parameters for substations/switchyards shall be as given below:

Sl. No.	Description of parameters	765/400/220 kV Kurnool IV PS (AIS) Extn.		
		765 kV System	400 kV System	220 kV System
1.	System Operating Voltage	765 kV	400 kV	220 kV
2.	Maximum voltage of the system (rms)	800 kV	420 kV	245 kV
3.	Rated Frequency	50 Hz	50 Hz	50 Hz
4.	No. of Phases	3	3	3
5.	Rated Insulation Levels			
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.) - for Equipment other than Transformer and Reactor - for Insulator String	2100 kVp 2100 kVp	1425 kVp 1550 kVp	1050 kVp 1050 kVp
ii)	Switching Impulse withstand voltage (250/2500 micro sec.) dry and wet	1550 kVp	1050 kVp	--
iii)	One minute power frequency dry withstand voltage (rms)	830 kV	630 kV	--
iv)	One minute power frequency dry and wet withstand voltage (rms)	--	--	460 kV
6.	Corona Extinction Voltage	508 kV	320 kV	

7.	Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz	2500 micro-volts at 508 kV rms	1000 micro-volts at 266 kV rms	1000 micro-volts at 156 kV rms
8.	Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings	24800 mm (31mm/kV)	13020 mm (31 mm/kV)	7595 mm (31 mm/kV)
9.	Minimum creepage distance for switchyard equipment	20000 mm (25 mm/kV)	10500 mm (25 mm/kV)	6125 mm (25 mm/kV)
10.	Max. Fault Current	50 kA	63 kA	50 kA
11.	Duration of Fault	1 sec	1 sec	1 sec

Sl. No.	**Description of parameters**	**765/400 Doma S/s (AIS)**		**Shadnagar (TGTRANSCO) S/s (GIS) Extn.**	**Kethiredipally (TGTRANSCO) S/s (AIS) Exrtn.**
		765 kV System	**400 kV System**	**400 kV System**	**400 kV System**
1.	System Operating Voltage	765 kV	400 kV	400 kV	400 kV
2.	Maximum voltage of the system (rms)	800 kV	420 kV	420 kV	420 kV
3.	Rated Frequency	50 Hz	50 Hz	50 Hz	50 Hz
4.	No. of Phases	3	3	3	3
5.	Rated Insulation Levels				
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.) - for Equipment other than Transformer and Reactor - for Insulator String	2100 kVp 2100 kVp	1425 kVp 1550 kVp	1425 kVp 1550 kVp	1425 kVp 1550 kVp
ii)	Switching Impulse withstand voltage (250/2500 micro sec.) dry and wet	1550 kVp	1050 kVp	1050 kVp	1050 kVp
iii)	One minute power frequency dry withstand voltage (rms)	830 kV	630 kV	650 kV (for GIS) 630 kV (for AIS)	630 kV
6.	Corona Extinction Voltage	508 kV	320 kV	320 kV	320 kV

7.	Max. radia interference voltage far frequency between 0.5 MHz and 2 MHz	2500 micra-valts at 508 kV rms	1000 micra-valts at 266 kV rms	1000 micra-valts at 266 kV rms	1000 micra-valts at 266 kV rms
8.	Minimum creepage distance far insulatar string/ longrad insulatars/ autdaar bushings	24800 mm (31 mm/kV)	13020 mm (31 mm/kV)	13020 mm (31 mm/kV)	13020 mm (31 mm/kV)
9.	Minimum creepage distance far switchyard equipment	20000 mm (25 mm/kV)	10500 mm (25 mm/kV)	10500 mm (25 mm/kV)	10500 mm (25 mm/kV)
10.	Max. Fault Current	50 kA	63 kA	63 kA	63 kA
11.	Duratian af Fault	1 sec	1 sec	1 sec	1 sec

B.1.2 Switching Scheme

The switching schemes, as mentianed belaw, shall be adopted at various valtage levels of substation/switchyard:

Substation	765 kV side	400 kV side	220 kV side
765/400/220 kV Kurnool IV P5 (AIS) Extn.	One and Half breaker	One and Half breaker	Double Main and Transfer
765/400 kV Doma S/s (AIS)	One and Half breaker	One and Half breaker	-----
Shadnagar (TGTRANSCO) S/s (GIS) Extn.	-----	One and Half breaker	-----
Kethiredipally (TGTRANSCO) S/s (AIS) Extn.	-----	One and Half breaker	-----

Nates: -

i) *Far ane and half breaker switching scheme, any dauble circuit line cansisting af twa numbers of feeders and ariginating fram the same tronsmissian or generating switchyard shall nat be terminated in one diometer.*

ii) *Twa transfarmers af same HV rating sholl nat be cannected in the same diameter and similarly twa bus reoctors of same HV rating shall alsa nat be cannected in the same diameter.*

iii) *A diameter in ane and half breaker scheme is o set af 3 circuit breakers with assaciated isalatars, earth switches, current transfarmers etc. far cantralling 2 (twa) numbers af feeders.*

iv) *Space far 765 kV and 400 kV future line boys sholl be kept considering pravision af switchable line reactars.*

v) ***Provision for Bus sectionolizer:***

Space/provision for One (1) set of bus sectionolizer for 400 kV shall comprise Two (2) Nos. of bus sectionolizer boys with associoted Circuit Breakers, Isolators and Current Transformers for both buses.

Space/provision for One (1) set of bus sectionolizer for 220 kV shall comprise Two (2) Nos. of bus sectionalizer boys with associoted Circuit Breakers, Isolotors and Current Transformers for both buses.

vi) *TSP shall plon connectivity of line and transformer feeders to bus bar in such a way that oll power can be evacuoted successfully without crossing thermal limit at ony point of bus-bor.*

vii) *For AIS type substation, TSP shall keep space provisions for future elements such that interconnection orrongement to the corresponding future boys can be done with overheod AIS type connection without ony coble/ GIS duct.*

viii) **765/400/220 kV Kurnool IV PS:**

- *400 kV Bus Sectionalization shall be with the following feeder distribution.*

400 kV Bus Section-1	***400 kV Bus Section-2***
a) 3 Nos. of existing 765/400 kV ICT *b) 3 Nos. of existing 400/220 kV ICT* *c) 1 No. of existing STATCOM* d) 5 Nos. of Present 400/220 kV ICT e) 2 No. of Present 400 kV Lines *f) 4 Nos. of Future 400 kV Lines (with provision for Switchable line reoctor)*	*a) 1 No. existing of 765/400 kV ICT* *b) 1 Nos. of existing 400/220 kV ICT* c) 2 Nos. of Present 765/400 kV ICT d) 5 Nos. of Present 400/220 kV ICT *e) 4 Nos. of Future 400/220 kV ICT* *f) 6 Nos. of Future 400 kV Lines (with provision for Switchoble line reactor)*

- *220 kV Bus Sectionalization shall be with the following feeder distribution.*

220 kV Bus Section-1	***220 kV Bus Section-2***
a) 3 Nos. of existing 400/220 kV ICT b) *5 Nos. of existing 220 kV Lines*	*a) 1 No. of existing 400/220 kV ICT* *b) 1 No. of existing 220 kV Line* *c) 5 Nos. Present 220 kV Line.* d) *4 Nos. Present 400/220 kV ICT.*
220 kV Bus Section-3	***220 kV Bus Section-4***
o) 5 Nos. Present 400/220 kV ICT. *b) 7 Nos. Present 220 kV Lines.*	*a) 1 Nos. Present 400/220 kV ICT.* *b) 1 Nos. Present 220 kV Line.* *c) 4 Nos. future 400/220 kV ICT.* *d) 7 Nos. future 220 kV Lines.*

- *Line boys shall be complete olong with line side equipment (such os LA, CVT, Wove Trop), gontry, protection ponel etc. for terminotion of 400 kV and 220 kV*

lines for interconnection of RE Generation Projects.

ix) **765/400 Doma S/s (AIS)**

- *Provision of 400 kV Bus Sectionalization (Future) and space provision shall be with the following feeder distribution.*

400 kV Bus Section-1	*400 kV Bus Section-2 (Future)*
a) 4 Nos. of Present 765/400 kV ICT b) 4 Nos. of Present 400 kV Lines c) *6 Nos. of Future 400/220 kV ICT* d) *4 Nos. of Future 400 kV Lines (with provision for Switchable line reactor)*	a) *2 Nos. of Future 765/400 kV ICT* b) *4 Nos. of Future 400/220 kV ICT* c) *4 Nos. of Future 400 kV Lines (with provision for Switchable line reactor)*

- *TSP shall implement 400 kV bays keeping the space provision for providing 400 kV Bus Sectionalizer in future meeting the requirements of feeder distribution as mentioned above.*
- *765 kV bay configurations (one and half breaker scheme) shall be as follows:*

Configuration	Number of Diameters
ICT- Tie- Line	4 (four)
Bus Reactor- Tie- Space provision for Future Line with Switchable line Reactor*	2 (two)

* Bays shall be utilized for the termination of Krishnagiri – Doma 765 kV D/C line at Doma S/s proposed under a separate Transmission scheme "Transmission System for integration of Krishnagiri REZ Phase-I".

x) In one and half breaker scheme, both main bay and tie bay shall be completed for controlling a feeder. Further, all associated interconnection work shall also be in the present scope of TSP.

B.2.0 Substation Equipment and Facilities (Voltage level as applicable):

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following capacity.

Sl. No	Description of Bay	765/400/220 kV Kurnool IV PS		
		765 kV	400 kV	220 kV
1.	Bus Bar	4000 A	4000 A	3000 A

2.	Line bay	N/A	3150 A	1600 A
3.	ICT bay	3150 A	3150 A	1600 A
4.	Bus Sectionaliser bay	N/A	4000 A	3000 A
5.	Bus Coupler Bay	N/A	N/A	3000 A
6.	Transfer Bus coupler bay	N/A	N/A	1600 A

Sl. No	Description of Bay	765/400 kV Doma S/s		Shadnagar (TGTRANSCO) GIS S/s	Kethiredipally (TGTRANSCO) S/s
		765 kV	400 kV	400 kV	400 kV
1.	Bus Bar	4000 A	4000 A	As per existing	As per existing
2.	Line bay	3150 A	3150 A	3150 A	3150 A
3.	ICT bay	3150 A	3150 A	N/A	N/A
4.	Reactor bay	3150 A	N/A	N/A	N/A

B.2.1 (765/√3)/(400/√3)/33 kV, Single Phase Autotransformer

500 MVA, (765/√3)/ (400/√3)/ 33 kV, 1-phase autotransformer (including arrangement for 3-phase bank formation of 1500 MVA) shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class)" as amended up to date available on CEA's website.

Spare 1-phase Transformer unit shall be placed and connected in such a way that the spare unit can be utilized to replace in case of fault in any unit of any of the transformer banks (including for future transformer banks) without physically moving it.

Connection arrangement for utilization of existing Spare Single Phase Autotransformer unit: TSP shall make the arrangement of present ICT bank in such a way that the existing spare unit can be utilized for Transformer bank under present scope without its physical movement.

B.2.2 400/220/33 kV, 3-phase Autotransformer

500 MVA, 400/220/33 kV, 3-phase autotransformer shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class)" as amended up to date available on CEA website.

B.2.3 (765/√3) kV, Single Phase Shunt Reactor

110 MVAr, 765/√3 kV, 1-Phase Reactor (including arrangement for 3-phase bank formation of 330 MVAr) shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above voltage class)" as amended up to date available on CEA's website.

Spare 1-phase Shunt Reactor unit shall be placed and connected in such a way that the spare unit can be utilized for all the bus and switchable line reactor banks (including for future reactor banks) without its physical movement.

B.2.4 400 kV GIS Substation equipment (as applicable)

GIS (Gas Insulated Switchgear) shall be Indoor type in accordance to IEC: 62271-203. The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All the switchgear such as Circuit Breaker, isolator, earth switch including CT, PT etc. shall be GIS type. The Surge Arrestor and Voltage Transformer shall be either GIS or outdoor AIS type.

The GIS assembly shall consist of separate modular compartments e.g. Circuit Breaker compartment, Bus bar compartment filled with SF_6 Gas and separated by gas tight partitions so as to minimize risk to human life, allow ease of maintenance and limit the effects of gas leaks failures and internal arcs etc. These compartments shall be designed to minimize the risk of damage to adjacent sections and protection of personnel in the event of a failure occurring within the compartments. Rupture diaphragms with suitable deflectors shall be provided to prevent uncontrolled bursting pressures developing within the enclosures under worst operating conditions, thus providing controlled pressure relief in the affected compartment. The arrangement of gas sections or compartments shall be such as to facilitate future extension of any make without any drilling, cutting or welding on the existing equipment. To add equipment, it shall not be necessary to move or dislocate the existing switchgear bays. The layout of Gas Insulated Bus Ducts shall be properly planned to optimize the length of bus ducts and for easy accessibility for maintenance. The length of busbars, bus ducts, isolator sections shall be optimized considering effects of fast transient voltage due to isolator operations.

The bus bar modules including auxiliary bus modules (wherever applicable) shall be provided with suitable End Piece (Interface) module **on both sides** with the test link facility for future extension as per provisions of future requirements. The end piece module shall be designed in such a way so that future GIS modules may be tested without extending test voltage to existing bus and vice-versa by removing the test link.

TSP shall make available the complete details for the design of interface module such as cross section, enclosure material, enclosure dimensions (inner and outer), Flange diameter (inner and outer), conductor cross-section and connection arrangement, bolt spacing and dimension, rated gas pressure, Gasket detail etc. Further, adequate space for GIS busbar interface module shall be taken into account for future scope.

Each section shall have plug-in or easily removable connection pieces to allow for easy replacement of any component with the minimum disturbance to the remainder of the equipment. Inspection windows (View Ports) shall be provided for Disconnector Switches and both type of earth switches i.e. Maintenance and fast operating.

Local Control Cabinets (LCC) shall be provided as per requirement. The alarm and annunciation of GIS equipment shall be wired to the SCADA System.

The material and thickness of the enclosures shall be such as to withstand an internal flashover without burns through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF_6 breakdown under arcing conditions. This shall be validated with Type Test.

Service continuity requirement for GIS:

The GIS equipment with the given bus switching arrangement shall be divided into

different gas compartments. During the work such as a fault repair or major maintenance, requiring the dismantling of a gas compartment for which more than one compartments may need to be de-gassed.

TSP shall meet following Service continuity conditions (to the extent possible) with ensuring equipment and operating personnel's safety:

- For One and half breaker bus switching scheme, during a fault in Circuit Breaker compartment, no bus bar and feeder is permitted out of service during maintenance and repair/replacement.
- During a fault in a GIS compartment other than the Circuit Breaker compartment, maximum of one bus bar and/or one feeder is permitted out of service during maintenance and repair/replacement.

UHF sensors in GIS for PD (Partial Discharge) detection:

The adequate number of Ultra High Frequency (UHF) sensors shall be provided in the offered GIS along with suitable portable type Partial Discharge (PD) measuring instrument for detection of Partial discharge (of 5 pC and above as per IEC 60270). The number and location of these sensors shall be based on laboratory tests on the typical design of GIS as per recommendations of CIGRE Document No. 654 (Application Guide for sensitivity verification for UHF Partial discharge detection system for GIS).

B.2.4.1 Circuit Breakers (GIS)

GIS Circuit breakers shall in general be of C2-M2 class and comply to IEC-62271-100. The rated break time shall not exceed 40 ms (milli second) for 400 kV. Circuit breakers shall be suitable for single phase and three phase auto reclosing. Each breaker would have two sets of trip circuits which would be connected to separate DC supplies for greater reliability. The Circuit breakers controlling 400 kV lines wherever required shall be provided with pre-insertion closing resistor of about 400 ohms with 8 ms insertion time or Controlled Switching Device (CSD) for lines longer than 200 km. The short line fault capacity shall be the same as the rated capacity and this is proposed to be achieved without use of opening resistors. Controlled switching device shall be provided in the Circuit Breaker of the switchable line reactor bay and in Main and Tie bay circuit breakers of line with non-switchable line reactors, Bus reactors and Transformers for 400 kV and above voltage class.

B.2.4.2 Isolators (GIS)

The isolators shall comply to IEC 62271-102 in general. Earth switches shall be provided at various locations to facilitate maintenance. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. All isolators and earth switches shall be motor operated type.

The isolator shall be of extended mechanical endurance class-M2 and suitable for Bus Transfer Current Switching duty as per IEC standards. High speed earthing switches shall be provided for grounding purposes at overhead line terminations and cable terminations and shall have fault making capability as specified. Earth switch for line isolator shall be of earthing switch class E1 and shall be suitable for induced current switching duty as defined for Class-B as per relevant standard.

B.2.4.3 Current Transformers (GIS)

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) shall have five cores (four for protection and one for metering) whereas; CT in Tie bays shall have six cores (four for protections and two for metering) suitably distributed on both sides of CB (for 400 kV and above voltage class). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for protection core shall be PX and for the metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy.

The instrument security factor shall be less than 5 for CTs up to 400 kV voltage class.

B.2.4.4 Voltage Transformer (GIS)

The voltage transformers shall conform to IEC-61869. Voltage transformers shall be of electromagnetic type with SF_6 gas insulation. The earth end of the high voltage winding and the ends of the secondary winding shall be brought out in the terminal box. The voltage transformers shall be located as a separate bay module and will be connected phase to ground and shall be used for protection, metering and synchronization. The voltage transformers shall be of inductive type, nonresistant and shall be contained in their own-SF_6 compartment, separated from other parts of installation. The voltage transformer shall be effectively shielded against high frequency electromagnetic transients. The voltage transformer shall have three secondary windings out of which two shall be used for protection and one for metering. The voltage transformer should be thermally and dielectrically safe when the secondary terminals are loaded with the guaranteed thermal burdens. The accuracy class for protection cores shall be 3P. The accuracy of 0.2 on metering core should be maintained throughout the entire burden range on all the three windings without any adjustments during operation. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than S0 VA for metering core) for better sensitivity and accuracy.

B.2.4.5 Surge Arresters (GIS) (if applicable)

336 kV Station High (SH) duty gapless type Surge arresters with thermal energy (Wth) of minimum 12 kJ/ kV shall be provided for 420 kV system conforming to IEC 60099-4 in general. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances, near transformers and reactors so as to achieve proper insulation coordination. A leakage current monitor with surge counter shall be provided with each surge arrester.

B.2.4.6 SF_6 to Air Bushing

Outdoor bushings, for the connection of conventional external conductors to the SF_6 metal enclosed switchgear, shall be provided. Bushings shall generally be in accordance with the requirements of IEC-60137. The creepage distance over the external surface of outdoor bushings shall not be less than 31 mm/ kV. SF_6 to air Bushing shall be of Polymer/ composite type and shall be robust and designed for adequate cantilever strength to meet the requirement of seismic conditions. The electrical and mechanical characteristics of bushings shall be in accordance with IEC-60137. Polymer/composite insulator shall be seamless sheath of silicon rubber compound. The housing and weather

sheds should have silicon content of minimum 30% by weight. It should protect the bushing against environmental influences, external pollution and humidity. The hollow silicon composite insulators shall comply with the requirements of IEC 61462 and the relevant parts of IEC-62217.

B.2.5 765 kV, 400 kV and 220 kV AIS Substation equipment (as applicable)

B.2.5.1 Circuit Breakers (AIS)

The circuit breakers and accessories shall conform to IEC: 62271-100, IEC: 62271-1 and shall be of $5F_6$ Type. The circuit breakers shall be of class C2-M2 (as per IEC) with regard to restrike probability during capacitive current breaking and mechanical endurance. The rated break time shall not exceed 40 ms for 765 kV and 400 kV circuit breakers and 60 ms for 220 kV circuit breakers. The 765 kV, 400 kV and 220 kV circuit breakers shall be provided with single phase and three phase auto reclosing. Each breaker would have two sets of trip circuits, which would be connected to separate DC supplies for greater reliability. The circuit breakers controlling 765 kV lines shall be provided with either pre-insertion closing resistor of about 450 ohm maximum with 9 ms insertion time or with Controlled Switching Device. The Circuit breakers controlling 400 kV lines shall be provided with pre insertion closing resistor of about 400 ohm with 8 ms insertion time or with Controlled Switching Device (CSD) for lines longer than 200 km length. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors. The Controlled Switching Device shall be provided in circuit breakers of switchable line reactor bay and in Main and Tie bay circuit breakers of line with non-switchable line reactors, Bus Reactors and Transformers of 400 kV and above voltage class.

B.2.S.2 Isolators (AI5)

The Isolators shall comply with IEC 62271-102 in general. 765 kV Isolator design shall be double break or vertical break or knee-type. 400 kV and 220 kV Isolators shall be double break type. All Isolators and earth switches shall be motor operated. Earth switches shall be provided at various locations to facilitate maintenance. Isolator rated for 400 kV and 220 kV shall be of extended mechanical endurance class – M2 as per IEC-62271-102. Isolator rated for 220 kV shall be suitable for bus transfer current switching duty as per IEC-62271-102. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. The 765 kV, 400 kV and 220 kV earth switch for line isolator shall be suitable for induced current switching duty as defined for Class-B.

B.2.5.3 Current Transformers (AIS)

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) for 765 kV and 400 kV shall have six cores (four for protection and two for metering) and 220 kV Current Transformers shall have five cores (four for protection and one for metering). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for the protection core shall be PX and for the metering core it shall be 0.25. The rated burden of cores shall be closer to the maximum burden requirement of the metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy. The instrument security factor shall be less than five (5) for CTs up to

gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint 8oxes at Doma station. The transmission line length is 50 kms (approx.). After LILO, if fiber length for links **Doma station** to **Kurnool-IV** and **Doma station** to **Bidar** is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.

iv. TSP shall finalize the location of repeater station depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per **Appendix-F.1**

v. Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.

C.7.0 Doma station – Shadnagar (TGTRANSCO) 400 kV D/C line

(i) On Doma station – Shadnagar (TGTRANSCO) S/s 400 kV D/C line, TSP shall supply, install & commission One (1) No. OPGW cable containing 48 Fibres (48F) on one E/W peak and conventional earth wire on other E/W peak.

(ii) The TSP shall install this OPGW from gantry of Doma S/s up to the gantry of Shadnagar(TGTRANSCO) with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint 8oxes at end Substations. The transmission line length is **50 kms (approx.)**, where repeater may not be required to meet the link budget requirement of Doma station – Shadnagar(TGTRANSCO) link.

(iii) Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.

C.8.0 Doma station – Kethiredipally (TGTRANSCO) 400 kV D/C line

(i) On Doma station – Kethiredipally (TGTRANSCO) S/s 400 kV D/C line, TSP shall supply, install & commission One (1) No. OPGW cable containing 48 Fibres (48F) on one E/W peak and conventional earth wire on other E/W peak.

(ii) The TSP shall install this OPGW from gantry of Doma S/s up to the gantry of Kethiredipally (TGTRANSCO) with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint 8oxes at end Substations. The transmission line length is **60 kms (approx.)**, where repeater may not be required to meet the link budget requirement of Doma station – Kethiredipally (TGTRANSCO) link.

(iii) Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.

C.9.0 Specific Requirement for Phasor Measurement Units (PMUs)

TSP shall supply, install and commission required No. of Phasor Measurement Units (PMUs) as per the "Guidelines on Unified Philosophy for placement of PMUs in Indian Grid" issued vide CEA letter No. CEA-PS-14-12/9/2024-PSETD Division dated 19.03.2025 for the scope of this RfP. The PMUs shall be provided with LAN switch and shall connect with LAN switch of control room of respective substations/ generating stations with Fiber Optic cable. These PMUs shall be connected with the FOTE at Substation/ generating stations for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for new PMU integration shall be

C.5.0 FOTE requirement at Kethiredipally (TGTRANSCO)S/s.

(i) TSP shall supply, install & commission FODP with minimum 144 Fiber capacity alongwith panel and required Approach Cable (48F) with all associated hardware fittings from gantry tower to 8ay Kiosk and from the Bay Kiosk to Control room.

(ii) TSP shall supply, install & commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among Kethiredipally (TGTRANSCO) S/s, Doma (ISTS) S/s and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.

(iii) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of **Kethiredipally (TGTRANSCO)** which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).

(iv) FOTE & FODP can be accommodated in same panel to optimize space.

(v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.

C.6.0 OPGW requirement for LILO Portion of 765 kV Kurnool-IV – Bidar D/C line at Doma station

On LILO of 765 kV Kurnool-IV – Bidar D/C line at Doma station, TSP shall supply, install & commission OPGW and earthwire as per Tower Configurations:

i. Loop-in and Loop out Ckt on Single Towers: Two (2) No. OPGW cable containing 48 Fibres (48F) to be installed & commissioned by the TSP on both the Earthwire peaks

ii. Loop-In and Loop out Ckt on Two separate Towers: One (1) No. OPGW cable containing 48 Fibres (48F) on one earthwire peak & conventional earthwire on other E/W peak for both Loop In and Loop Out Lines.

iii. The TSP shall install OPGW cables from gantry of Doma station up to the LILO tower with all associated hardware including Vibration Dampers, mid-way &

shall be provided with necessary interfaces to meet the voice and data communication requirement for 9 no RE Generators ((400 and 220 kV). Necessary direction shall be provided in the FOTE for RE Generators, however required optical interfaces shall be provided by RE Generators at the time of connectivity.

(iii) The suitable DC Power Supply and backup to be provided for communication equipment.

(iv) FODP & FOTE equipment with panels shall be provided in Control Room of Kurnool-IV station. FOTE & FODP Eq can be accommodated in same panel to optimize space.

(v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, PMU, approach cable, DCPS alongwith Battery Bank & Firewall shall be the responsibility of TSP.

C.4.0 FOTE requirement at Shadnagar (TGTRANSCO) S/s.

(i) TSP shall supply, install & commission FODP with minimum 144 Fiber capacity alongwith panel and required Approach Cable (48F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.

(ii) TSP shall supply, install & commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among Shadnagar (TGTRANSCO) S/s, Doma (ISTS) S/s and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.

(iii) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of **Shadnagar (TGTRANSCO)** which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).

(iv) FOTE & FODP can be accommodated in same panel to optimize space.

(v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.

(III) FODP & FOTE equipment with panels shall be provided in Control Room of Doma station. FOTE & FODP Eq can be accommodated in same panel to optimize space.

(IV) **TSP shall deploy Cyber Security System in compliance with CEA (Cyber Security in Power Sector) Guidelines, 2021 and CEA (Cyber Security in Power Sector) Regulation, from its date of publication/ notification and their amendments thereof.**

(V) **The maintenance of all the communication equipment and software thereof including FOTE, FODP, PMU, approach cable, DCPS along with Battery Bank & Cyber Security System shall be the responsibility of TSP.**

C.2.0 FOTE Requirement for: 400 kV (1 No.) and 220 kV (5 No.) line bays at Kurnool-IV for RE Generators (time schedule 24 months)

(i) TSP shall supply, install & commission FODP with minimum 192 Fiber capacity along with panel and approach Cable (24F each) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.

(ii) TSP shall supply, install & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum eight (8) directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement for 6 no RE Generators ((400 and 220 kV). Necessary direction shall be provided in the FOTE for RE Generators, however required optical interfaces shall be provided by RE Generators at the time of connectivity.

(iii) The suitable DC Power Supply and backup to be provided for communication equipment.

(iv) FODP & FOTE equipment with panels shall be provided in Control Room of Kurnool-IV station. FOTE & FODP Eq can be accommodated in same panel to optimize space.

(v) The maintenance of all the communication equipment and software thereof including FOTE, FODP, PMU, approach cable, DCPS alongwith Battery Bank & Firewall shall be the responsibility of TSP.

C.3.0 FOTE Requirement for: 400 kV (1 No.) and 220 kV (8 No.) line bays at Kurnool-IV for RE Generators (time schedule 36 months)

(i) TSP shall supply, install & commission FODP with minimum 264 Fiber capacity along with panel and approach Cable (24F each) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.

(ii) TSP shall supply, install & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum eleven (11) directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment

SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION

The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017, CEA (Cyber Security in Power Sector) Guidelines, 2021, CEA Guidelines on Unified Philosophy for placement of PMUs in Indian Grid, March 2025 and amendments of all above documents as amended from time to time.

The communication services viz. SCADA, AGC (wherever applicable), VoIP, AMR and PMU have been identified as critical services and therefore shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation.

PMU to PDC communication (wherever required) shall be through 2 channels to the PDC (main) as there is no backup PDC at present.

Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs

The complete ISTS communication system commissioned by TSP under the RFP shall be the asset of ISTS and shall be available for usage of ISTS requirements as suggested by CTU from time to time.

In order to meet the requirement for grid management and operation of substations, Transmission Service Provider (TSP) shall provide the following:

C.1.0 Establishment of 765/400 kV Doma (ISTS) Station

(I) TSP shall supply, install & commission FODP with minimum 288 Fiber capacity along with panel and approach Cable (48F each) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.

(II) TSP shall supply, install & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum Six (6) directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement among Doma station, Kurnool-IV, Bidar, Shadnagar (TGTRANSCO) and Kethiredipally (TGTRANSCO). The suitable DC Power Supply and backup to be provided for communication equipment.

Note: Necessary optical interfaces to be provided by the TSP in the FOTE of Kurnool-IV and Bidar as per link budget requirement after change of fiber length due to LILO at Doma (ISTS) station.

A.	**765/400/220 kV Kurnool IV PS**		
1.0	Single Line Diagram	*Drowings are yet to be finalized by the developer.*	
2.0	General Arrangement		
3.0	Earthmat Layout		
4.0	Visual Monitoring System		
5.0	Bus Bar Protection		
6.0	Substation Automation System (SAS)		
B.	**400 kV Shadnagar (TGTRANSCO) S/s**		
1.0	Single Line Diagram	*Kindly refer the clarification to RFP documents.*	
2.0	General Arrangement		
3.0	Earthmat Layout		
4.0	Visual Monitoring System		
5.0	Bus Bar Protection		
6.0	Substation Automation System (SAS)		
C.	**400 kV Kethiredipally (TGTRANSCO) S/s**		
1.0	Single Line Diagram	*Kindly refer the clarificotion to RFP documents.*	
2.0	General Arrangement		
3.0	Earthmat Layout		
4.0	Visual Monitoring System		
5.0	Bus Bar Protection		
6.0	Substation Automation System (SAS)		

Note: The existing drawings provided above and in subsequent amendments to the RfP are as received from the developer of existing substation and provided only for reference. Bidders shall follow the RfP for scope of work. Actual site conditions may be different due to other schemes being executed or subsequent revisions by the developer. Thus, Bidders are advised to visit the substation sites and acquaint themselves with the actual site conditions, layout, topography, infrastructure such as the requirement of roads, cable trench, drainage, space availability in control rooms and LT panel room, boundary etc. and also the design philosophy.

B.4 General Facilities

a) Line Gantry/Towers are envisaged for bays under the present scope only. However, for adjacent future line bay, gantry/tower shall be designed for extension (considering Hexa conductors for 765 kV and Quad conductors for 400 kV and Twin conductor for 220 kV future lines) wherever applicable.

b) Bay extension works at existing substation shall be executed by TSP in accordance with the requirements/provisions mentioned above. However, interface points shall be considered keeping in view the existing design/arrangement at the substation.

c) TSP has to arrange for construction power and water on its own.

d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 610 g/m^2, however, for coastal/creek regions it shall be at least 900 g/m^2. (if applicable)

e) In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, all the equipment for Tie and Future Bay shall be designed considering the current rating of line bay i.e. 3150 A.

f) Boundary wall shall be brick masonry wall with RCC frame or Stone masonry wall or Precast RCC wall under present scope along the property line of complete substation area including future switchyard area to prevent encroachment and unauthorized access. Minimum height of the boundary wall shall be of 1.8 m from Finished Ground Level (FGL).

g) All electrical equipment shall be installed above the Highest Flood Level (HFL) and where such equipment is not possible to be installed above Highest Flood Level, it shall be ensured that there is no seepage or leakage or logging of water.

h) As per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022 and CEA Manual on Transmissions Planning criteria 2023, line approaching substation shall normally be perpendicular to the substation boundary for a stretch of 2-3 km. Accordingly, TSP shall ensure that line terminations at substations are arranged in a manner to avoid hindrance to future line terminations at the substations.

i) TSP shall finalize the substation site/layout such that the corridor for the termination of lines, including future lines at the substation, can be accommodated without any constraints. Accordingly, forests, large water bodies, or hills adjacent to the substation boundary should be avoided.

B.5 EXTENSION OF EXISTING SUBSTATION

The following drawings/details of existing substation are attached with the RfP documents for further engineering by the bidder.

Sl. No.	Drawing Title	Drawing No./Details	Rev. No.

units, bay mimic, relay and protection panels, RTCC panels, PLCC panels, panels for tele-communication system etc. are to be placed in a separate room in the GIS building. The size of the room shall be such that all the panels for the bays under present scope shall be accommodated. The panel room shall be air-conditioned. Further, the temperature of the room shall be monitored through substation automation system by providing necessary temperature transducers. Ventilation system of suitable capacity shall be provided for each GIS hall.

One EOT Crane of suitable capacity for erection and maintenance of largest GIS component/assembly and all plant installed in the GIS switchgear room shall be provided in each GIS hall. The crane shall be capable of fulfilling all special requirements for erection and maintenance of GIS equipment. The capacity of the crane shall be sized to lift the heaviest GIS switchgear component.

For extension of existing GIS, existing facilities shall be suitably augmented/ extended for GIS equipment under present scope.

B.3.7 Control Concept

All the EHV circuit breakers in substation/switching stations shall be controlled and synchronized from the switchyard control room/remote control center. All the isolators shall have control from remote/local whereas the earth switches shall have local control only.

B.3.8 Visual Monitoring System (VMS) for watch and ward of substation premises:

Visual Monitoring System for effective watch and ward of substation premises shall cover all the transformers and reactors, all other major AIS Equipment (such as CB, isolators, CT, CVT, SA etc. as applicable), GIS bays, panel room, all the gates of switchyard and all entry and exit points of control room building and accordingly the location of cameras shall be decided. In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations. The camera shall be high-definition color CCD camera with night vision feature. The VMS data partly/completely shall be recorded (minimum for 15 days) at least @25fps (or better) and stored on network video recorder. The system shall use video signals from various cameras installed at different locations, process them for viewing on workstations/monitors in the control room and simultaneously record all the cameras. The VMS data should go only to the intended personnel/facility and not to the remote server of the Camera (VMS supplier).

Mouse/keyboard controllers shall be used for pan, tilt, zoom and other functions of the desired camera. The Visual Monitoring System shall have provision of WAN connectivity for remote monitoring.

All camera recordings shall have Camera ID and location/area of recording as well as date/time stamp. The equipment should generally conform to Electromagnetic compatibility requirement for outdoor equipment in EHV substation.

Advisory on deployment of CCTV issued by Ministry of Electronics and Information Technology (MEITY) shall be followed.

At existing substations, the Visual Monitoring System if available shall be augmented as per existing or better specification as required.

Fire-fighting system for substation including Transformer and Reactor shall conform to CEA (Measures Relating to Safety and Electric Supply) Regulations, 2023 as amended from time to time.

Further, adequate water hydrants and portable fire extinguishers shall be provided in the substations. The main header of the firefighting system shall be suitable for extension to bays covered under the future scope; necessary piping interface in this regard shall be provided.

Optical Beam type heat detection for GIS hall fire protection system shall be provided for all the GIS halls.

At existing substations, the fire-fighting systems as available shall be extended to meet the additional requirements.

B.3.3 Oil evacuating, Filtering, Testing and Filling apparatus

To monitor the quality of oil for satisfactory performance of Transformers, Shunt Reactors and for periodical maintenance necessary oil evacuating, filtering, testing and filling apparatus would be provided at new substations. Oil storage tanks of adequate capacities for storage of transformer oil would be provided.

Online Transformer Oil Drying Out System shall be provided in line with the provisions of Standard Specification and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class) as amended up to date available on CEA website.

B.3.4 Illumination

Normal and emergency AC and DC illumination shall be provided adequately in the control room and other buildings of the substation. The switchyard shall also be provided with adequate illumination.

The lighting of the entire control room building, fire-fighting pump house, other building (if any) and switchyard shall be done by LED based low power consumption luminaries.

B.3.5 Control Room

For the new substation, substation control room shall be provided to house substation work stations for station level control (SAS) along with its peripheral and recording equipment, AC and DC distribution boards, DC batteries and associated battery chargers, Fire Protection panels, Telecommunication panels and other panels as per requirements. Air conditioning shall be provided in the building as functional requirements. Main cable trenches from the control room shall have adequate space provision for laying of cables from the control room for all the future bays.

At existing substations, the adequacy of size of control room shall be ascertained and the same shall be augmented as per requirement.

B.3.6 GIS hall

The Gas Insulated Switchgear (GIS) of each voltage level along with other associated equipment shall be housed inside separate GIS building. The panels i.e. Bay level

i) For LT Supply at each new Substation, two (2) Nos. of LT Transformers (minimum 800 kVA for substations with highest voltage rating as 765 kV) shall be provided which shall be fed from two independent sources as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007.

Metering arrangement with Special Energy Meters (SEMs) shall be provided by TSP at 33 kV tertiary of Transformer for drawing auxiliary supply at new substation.Such SEMs shall be provided by CTU at the cost of the TSP. Accounting of such energy drawn by the TSP shall be done by RLDC/RPC as part of Regional Energy Accounting.

Additionally, Active Energy Meters may be provided at the same point in the 33 kV tertiary of Transformer by local SEB/DISCOM for energy accounting.

ii) 2 sets of 220 V battery banks for control and protection and 2 sets of 48 V battery banks for PLCC/ communication equipment shall be provided at each new Substation. Each battery bank shall have a float-cum-boost charger.

At new substation, sizing of 220 V battery and battery charger shall be done based on the number of bays specified (including future bays) as per CEA Regulations and relevant IS. 2 sets of 48 V battery banks for PLCC and communication equipment for present and future scope shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required. 48 V DC can be achieved from 220 V DC battery bank using adapter, if so desired by TSP, without compromising backup time.

iii) Suitable AC and DC distribution boards and associated LT Switchgear shall be provided at new substation.

For new substation, following switch boards shall be considered with duplicate supply with bus coupler/ sectionalizer and duplicate outgoing feeders except for Emergency lighting distribution board which shall have only one incoming feeder:

(a) 415 V Main Switchboard – 1 No.

(b) AC distribution board – 1 No.

(c) Main lighting distribution board – 1 No.

(d) Emergency lighting distribution board – 1 No.

(e) 220 Volt DC distribution board – 2 Nos.

(f) 48 Volt DC distribution board – 2 Nos.

Sizing of LT Switchgear shall be suitable to cater the requirement for all present and future bays. AC and DC distribution boards shall have modules for all the feeders (including future as specified).

iv) At new Substation, one No. of DG set (minimum 500 kVA for substations with highest voltage rating as 765 kV) shall be provided for emergency applications.

v) At new substation, sizing of battery and battery chargers shall be done based on the number of bays specified (including future bays).

vi) For substation extensions, existing facilities shall be augmented as required.

B.3.2 Fire Fighting System

B.2.7 Substation Automation System

a) For all the new substations, state of art Substation Automation System (SAS) conforming to IEC-61850 shall be provided. The distributed architecture shall be used for Substation Automation System, where the controls shall be provided through Bay Control Units. The Bay Control Unit is to be provided bay wise for voltage level 220 kV and above. All Bay Control Units as well as protection units are normally connected through an Optical fibre high speed network. The control and monitoring of circuit breaker, dis-connector, re-setting of relays etc. can be done from Human Machine Interface (HMI) from the Control Room.

The functions of control, annunciation, disturbance recording, event logging and measurement of electrical parameters shall be integrated in the Substation Automation System.

At the new substations, the Substation Automation System (SAS) shall be suitable for the operation and monitoring of the complete substation including proposed future bays/elements.

In the existing substations with a Substation Automation System (SAS), augmentation of existing SAS shall be done for bays under the present scope.

In the existing Substations where Substation automation is not provided, control functions shall be done through control panels.

Necessary gateway and modems (as required) shall be provided to send data to RLDC/SLDC as per their requirement and shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation. Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs. Any augmentation work at RLDC/SLDC is excluded from TSP's scope. However, all the configuration work at substation end required to send data to RLDC/SLDC shall be in the scope of TSP.

b) Time Synchronization Equipment

Time Synchronization Equipment complete in all respect including antenna, cable and processing equipment required to receive time signal through GPS/NavIC or from National Physical Laboratory (NPL) through INSAT shall be provided at new substations. This equipment shall be used to synchronize SAS and IEDs etc.

B.3.0 Substation Support Facilities

Certain facilities required for the operation and maintenance of substations as described below shall be provided at the new substation. In existing substation, these facilities have already been provided and will be extended/ augmented as per requirement.

B.3.1 AC and DC power supplies

For catering the requirements of three phase and single phase AC supply and DC supply for various substation equipment (for present and future scope), the following arrangement is envisaged:

provided for autotransformer.

c) 765 kV Reactor Protection

Reactor shall be provided with the following protections:

i) Numerical Differential Protection.

ii) Numerical Restricted Earth Fault Protection

iii) Numerical Back-up Impedance Protection

Besides these, reactors shall also be provided with Buchholz relay, Magnetic Oil Gauge (MOG) with low oil level alarm, protection against oil and winding temperatures and pressure relief device, etc.

d) Bus Bar Protection

The high-speed low impedance type bus bar differential protection, which is essential to minimize the damage and maintain system stability at the time of bus bar faults, shall be provided for 765 kV, 400 kV and 220 kV buses. Duplicated bus bar protection is envisaged for 765 kV and 400 kV bus-bar protection. Bus bar protection scheme shall be such that it operates selectively for each bus and incorporate necessary features required for ensuring security. The scheme shall have complete bus bar protection for present as well as envisaged future bays i.e. input / output modules for future bays for the bus section under present scope shall also be provided.

Bus Bar protection system for new substation shall be de-centralized (distributed) type.

In case, the bus section is provided, then each side of bus section shall have separate set of bus bar protection schemes.

Peripheral Units (PUs) shall be provided by the respective bay owners.

For existing substations, the existing bus bar protection shall be augmented as per requirement. Separate set of bus bar protection schemes including necessary modification with respect to feeder distribution shall be provided where new bus sectionaliser is being implemented.

e) Local Breaker Back up Protection

This shall be provided for each 765 kV, 400 kV and 220 kV circuit breakers and will be connected to de-energize the affected stuck breaker from both sides.

Notes:

1. *LBB and REF relays shall be provided seperately from transformer differential relay.*
2. *LBB relay may also be provided as built-in protection function of distributed bus bar protection scheme; however in such case separate LBB relay shall be provided for tie bays (in case of One and Half breaker scheme).*
3. *Over fluxing and overload protection can be provided as built-in feature of differential relay.*
4. *In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, Tie CB relay panel shall be with Auto-reclosure feature.*

below 30 km) having Fiber Optic Communication Link. Differential relay at remote end shall be provided by the TSP. The associated power and control cabling and integration with SAS at remote end shall be provided by respective bay owners.

In case of 220 kV line bays for RE Generators, Line Current differential relay (with back up distance protection feature) as Main-I and Main-II shall be provided. Further, in such cases, the matching line current differential relay for remote end shall be provided by the TSP as loose supply.

In case of loop in loop out of transmission lines, the existing protection scheme shall be studied and suitable up-gradation (if required) shall be carried out.

Further, all 765 kV, 400 kV and 220 kV lines shall be provided with single and three phase auto- reclosing facility to allow reclosing of circuit breakers in case of transient faults. These lines shall also be provided with distance to fault locators to identify the location of fault on transmission lines.

All 765 kV, 400 kV and 220 kV lines shall also be provided with two stage over voltage protection. The over voltage protection and distance to fault locator may be provided as in-built feature of Main-I and Main-II protection relays. Auto reclose as built-in function of Bay Control Unit (BCU) is also acceptable.

The Main-I and Main-II protection relays shall be fed from separate DC sources and shall be mounted in separate panels.

For 765 kV, 400 kV and 220 kV transmission lines, directional IDMT earth fault relay should be provided as standalone unit or in-built feature of Main-I and Main -II feature.

b) Auto Transformer Protection

These shall have the following protections:

i) Numerical Differential Protection

ii) Numerical Restricted Earth Fault Protection

iii) Numerical Back-up Over-Current and Earth Fault Protection on High Voltage (HV) and Intermediate Voltage (IV) side

iv) Numerical Over Fluxing Protection on HV and IV side

v) Numerical Overload Alarm

Further, Numerical Back-up Over-current and earth fault protection on HV and IV side of autotransformer shall not be combined with other protective functions in the main relays and shall be independent relays. Besides these, power transformers shall also be provided with Buchholz relay, Magnetic Oil Gauge (MOG) with low oil level alarm, protection against high oil and winding temperature and pressure relief device etc.

Suitable monitoring, control (operation of associated circuit breaker and isolator) and protection for LT auxiliary transformer connected to tertiary winding of auto-transformer for the purpose of auxiliary supply shall be provided. The over current and other necessary protection shall be provided for the auxiliary transformer. These protection and control may be provided as built-in feature either in the bay controller to be provided for the auxiliary system or in the control and protection IEDs to be

400 kV and less than ten (10) for CTs of 765 kV voltage class.

B.2.5.4 Capacitive Voltage Transformers (AIS)

Capacitive Voltage Transformers shall comply with IEC 61869 in general. These shall have three secondaries out of which two shall be used for protection and one for metering. The accuracy class for protection cores shall be 3P and for metering core shall be 0.2. The Capacitive Voltage Transformers on lines shall be suitable for Carrier Coupling. The Capacitance of CVT for 400 kV and 220 kV shall be of 4400/8800 pF depending on PLCC requirements whereas the Capacitance of CVT for 765 kV shall be 8800 pF. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

B.2.5.5 Surge Arresters (AIS)

624 kV, 336 kV Station High (SH) duty and 216 kV Station Medium (SM) duty gapless type Surge Arresters with thermal energy (W_{th}) of minimum 13 kJ/kV, 12 kJ/kV and 7 kJ/kV conforming to IEC 60099-4 in general shall be provided for 800 kV, 420 kV and 245 kV systems respectively. Other characteristics of Surge Arrester shall be chosen in accordance with system requirements. Surge Arresters shall be provided at line entrances, near transformers and reactors so as to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

B.2.6 Protection Relaying and Control System

The protective relaying system proposed to be provided for transmission lines, auto-transformers, reactors and bus bars to minimize the damage to the equipment in the events of faults and abnormal conditions, is dealt in this section. All main protective relays shall be numerical type with IEC 61850 communication interface and should have interoperability during integration of numerical relays to communicate over IEC 61850 protocol with RTU/SAS/IEDs of different OEMs. All numerical relays shall have built in disturbance recording feature.

The protection circuits and relays of the transformer and reactor shall be electrically and physically segregated into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing, to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service.

a) Transmission Lines Protection

765 kV, 400 kV and 220 kV lines shall have Main-I numerical three zone distance protection scheme with carrier aided inter-tripping feature. 765 kV, 400 kV and 220 kV lines shall also have Main-II numerical distance protection scheme like Main-I but from different make that of Main-I. The Main-I and Main-II protection relays of same make may be provided only if they are of different hardware and manufacturing platform or different principle of operation.

However, Line Current Differential Relay (with back up distance protection feature) as Main–I and Main-II shall be considered at both ends for short lines (line length

done by respective RLDC, however all the necessary support in this regard shall be ensured by TSP. The maintenance of all the PMUs and associated equipment shall be the responsibility of TSP.

Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.

C.10.0 Specific Requirement for UNMS Integration of FOTE

Communication system integration in UNMS/CSMS

TSP is to ensure integration of communication system into UNMS/CSMS as per following:

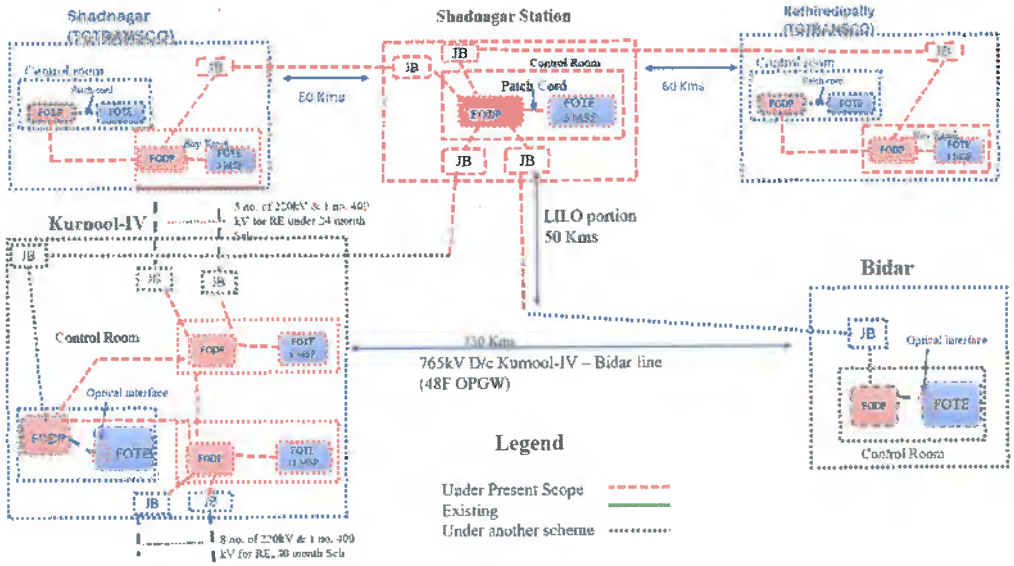
"The new communication equipment/ system under the present scope shall be compatible for integration with existing regional level NMS system/ Centralized Supervision & Monitoring System (CSMS) i.e. Regional UNMS. The local configuration of the new communication equipment/ system at the station end shall be the responsibility of TSP as per followings. The configuration work in the existing centralized NMS/ UNMS at Control center end, for integration of new Communication equipment/ system shall be done by Regional ULDC Team/ NMT, however all the necessary support in this regard shall be ensured by TSP.

Requirement for integration of Communication Equipment/ system with Regional UNMS:

1. TSP shall ensure that NMS/EMS/NE supplied by them is NBI compliant and all FCAPS functionality is supported in the NBI such as NE Inventory, Hardware Inventory– Shelf/Slot/Card/SFP/Port, Topology, Protections, Alarms, Performance-real time & periodic, Performance KPI parameters (E-1, STM, Ethernet), Remote Configuration, Cross Connects, Trails & Circuits, Services Provisioning (NE), E-1, STM, Ethernet, TX & RX Trace, loop back and details are published in the NBI guide for the configuration parameters.
2. TSP shall be obliged to provide/share all necessary documentations such as NBI Guide/MIB/IDL/WSDL/API files etc. for onward integration of their NMS/EMS/NE with regional UNMS.
3. The following support shall be provided by TSP for integration of their supplied equipment with regional UNMS:
   - Enabling & activating NBI license in their EMS/NMS and providing NBI login access along with User credentials
   - Assist in verifying NBI Connectivity with UNMS vendor for the successful communication and retrieval of data.
   - Assist in troubleshooting (if required) for NBI connectivity along with UNMS vendor for the communication and retrieval of data.

4. For standalone NE which is not integrated with any EMS/NMS, TSP shall provide modality of complete FCAPS data acquisition as above through industry standard programmatic methods and provide the CLI command manual."

Proposed Communication for " **Transmission System for Kurnool-IV REZ - Phase-II (3 GW)** "



Appendix-F.1

Repeater Requirements

- If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide OPGW to accommodate all the fibers in main transmission line on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and required approach Cable to accommodate all the OPGW fibers with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.

  TSP shall co-ordinate for Space & DC power supply sharing for repeater equipment.

  TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces required for link budget of respective link.

OR

- If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further, TSP shall provide OPGW to accommodate all the fibers in main transmission line on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of

the line crossing the main line and required approach Cable/UGFO to accommodate all the OPGW fibers with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed.

TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.

OR

- If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide required approach Cable to accommodate all the OPGW fibers with all associated hardware fittings to establish connectivity up to the location of repeater shelter.
  TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems

Maintenance of OPGW Cable and **OPGW Hardware**, repeater equipment & items associated with repeater shelter shall be responsibility of TSP.

C.11.0 PLCC and PABX:

Power line carrier communication (PLCC) equipment complete for speech, tele-protection commands and data channels shall be provided on each transmission line. The PLCC equipment shall in brief include the following: -

- Coupling device, Coupling filters line traps, carrier terminals, protection couplers, HF cables, PABX (if applicable) and maintenance and testing instruments.
- At new substation, a telephone exchange (PABX) of 24 lines shall be provided at as means of effective communication among various buildings of the substation, remote end substations and with control centres (RLDC/ SLDC) etc.
- Coupling devices shall be suitable for phase-to-phase coupling for 400 kV Transmission lines. The pass band of coupling devices shall have sufficient margin for adding communication channel in future if required. Necessary protection devices for safety of personnel and low voltage part against power frequency voltages and transient over voltage shall also be provided.
- The line traps shall be broad band tuned suitable for blocking the complete range of carrier frequencies. Line Trap shall have necessary protective devices such as lightning arresters for the protection of tuning device. Decoupling network consisting of line traps and coupling capacitors may also be required at certain

substation in case of extreme frequency congestion.

- The carrier terminals shall be of single side-band (SSB) amplitude modulation (AM) type and shall have 4 kHz band width. PLCC Carrier terminals and Protection couplers shall be considered for both ends of the line.

- PLCC equipment for all the transmission lines covered under the scheme shall be provided by TSP. PLCC to be provided for following lines under present scope:

Sl. No	Line name	PLCC configuration
1.	**Doma – Shadnagar (TGTRANSCO) 400 kV Twin HTLS D/C line**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.
2.	**Doma – Kethiredipally (TGTRANSCO) 400 kV Twin HTLS D/C line**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.

- TSP shall provide/ undertake necessary addition/ modification/ shifting/ re-commissioning etc. of PLCC equipment due to LILO of transmission lines (wherever applicable).

Sl. No	Line name	PLCC configuration
1.	**Kurnool-IV – Doma 765 kV D/C line [formed after LILO]**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends. Existing PLCC panels can also be utilized to meet the above configuration.
2.	**Doma-- Bidar 765 kV D/C line [formed after LILO]**	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends. Existing PLCC panels can also be utilized to meet the above configuration.

- Further, CVT and Wave trap for all 765 kV, 400 kV and 220 kV line bays under present scope shall be provided by TSP.
- All other associated equipment like cabling, coupling device and HF cable shall also be provided by the TSP.
- Two (2) sets of 48 V battery banks for PLCC and communication equipment shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required.

Annexure – G

Communication system integration in UNMS/CSMS

TSP is to ensure integration of communication system into UNMS/CSMS as per following:

"The new communication equipment/ system under the present scope shall be compatible for integration with existing regional level NMS system/ Centralized Supervision and Monitoring System (CSMS) i.e. Regional UNMS. The local configuration of the new communication equipment/ system at the station end shall be the responsibility of TSP as per followings. The configuration work in the existing centralized NMS/ UNMS at Control center end, for integration of new Communication equipment/ system shall be done by Regional ULDC Team/ NMT, however all the necessary support in this regard shall be ensured by TSP.

Requirement for integration of Communication Equipment/ system with Regional UNMS:

1. TSP shall ensure that NMS/EMS/NE supplied by them is NBI compliant and all FCAPS functionality is supported in the NBI such as NE Inventory, Hardware Inventory– Shelf/Slot/Card/SFP/Port, Topology, Protections, Alarms, Performance-real time and periodic, Performance KPI parameters (E-1, STM, Ethernet), Remote Configuration, Cross Connects, Trails and Circuits, Services Provisioning (NE), E-1, STM, Ethernet, TX and RX Trace, loop back and details are published in the NBI guide for the configuration parameters.

2. TSP shall be obliged to provide/share all necessary documentations such as NBI Guide/MIB/IDL/WSDL/API files etc. for onward integration of their NMS/EMS/NE with regional UNMS.

3. The following support shall be provided by TSP for integration of their supplied equipment with regional UNMS:
   1) Enabling and activating NBI license in their EMS/NMS and providing NBI login access along with User credentials
   2) Assist in verifying NBI Connectivity with UNMS vendor for the successful communication and retrieval of data.
   3) Assist in troubleshooting (if required) for NBI connectivity along with UNMS vendor for the communication and retrieval of data.

4. For standalone NE which is not integrated with any EMS/NMS, TSP shall provide modality of complete FCAPS data acquisition as above through industry standard programmatic methods sand provide the CLI command manual."

Transmission Service Agreement

Schedule: 2

Scheduled COD

[Note: As referred to in the definition of "Element", "Scheduled COD", and in Articles 3.1.3 (c), 4.1 (b) and 4.3 (a) of this Agreement]

Sl. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs	24 months (29.05.2028)	8.57	Kurnool-IV Phase-I Transmission System and Element at Sl. No. 2 & 3
2.	220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 1 & 3
3.	400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 1 & 2
4.	Augmentation of Kurnool-IV PS by 765/400 kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 5-10
5.	220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4 & 6-10
6.	400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4,5 & 7-10

Sl. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
7.	Establishment of 4x1500 MVA, 765/400 kV Doma Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard	36 months (29.05.2029)	91.43	Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4,5,6 & 8-10
8.	LILO of Kurnool-IV – Bidar 765 kV D/C line at Doma (about **20 kms**)			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-7, 9 & 10
9.	Doma – Shadnagar GIS S/s (TGTRANSCO) 400 kV **Twin HTLS** D/C line (about **40 kms**) {TGTRANSCO to upgrade Shadnagar GIS (TGTRANSCO) S/s to 400 kV in matching time frame}			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-8 & 10
10.	Doma – Kethiredipally (TGTRANSCO) 400 kV **Twin HTLS** D/C line (about **50 kms**)			**Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-9**

Transmission Service Agreement

Schedule: 3

Safety Rules and Procedures

[Note: As referred to in Articles 5.6 of this Agreement]

1. **Site Regulations and Safety:**

The TSP shall establish Site regulations within sixty (60) days from fulfilment of conditions subsequent, as per Prudent Utility Practices setting out the rules to be observed till expiry of the Agreement at the Site and shall comply therewith.

Such Site regulations shall include, but shall not be limited to, rules in respect of security, safety of the Project, gate control, sanitation, medical care, and fire prevention, public health, environment protection, security of public life, etc.

Copies of such Site regulations shall be provided to the Nodal Agency and the CEA for the purpose of monitoring of the Project.

2. **Emergency Work:**

In cases of any emergency, the TSP shall carry out all necessary remedial work as may be necessary.

If the work done or caused to be done by any entity, other than the TSP, the TSP shall, reimburse the actual costs incurred, to the other Party carrying out such remedial works.

3. **Site Clearance:**

In the course of execution of the Agreement, the TSP shall keep the Site reasonably free from all unnecessary obstruction, storage, remove any surplus materials, clear away any wreckage, rubbish and temporary works from the Site, and remove any equipment no longer required for execution of the Agreement. After completion of all Elements of the Project, the TSP shall clear away and remove all wreckage, rubbish and debris of any kind from the Site, and shall leave the Site clean and safe.

4. **Watching and Lighting:**

The TSP shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper construction, operation, maintenance / repair of any of the Elements of the Project, or for the safety of the owners and occupiers of adjacent property and for the safety of the public, during such maintenance / repair.

Transmission Service Agreement

Schedule: 4

Computation of Transmission Charges

1.1 General

The Monthly Transmission Charges to be paid to the TSP for providing Transmission Service for any Contract Year during the term of the Agreement shall be computed in accordance with this Schedule and paid as per Sharing Regulations.

Illustration regarding payment of Transmission Charges under various scenarios (considering definitions of Contract Year, Expiry Date & Monthly Transmission Charges above) is as below: -

Illustration-1: In case the Project Elements achieve COD as per Schedule

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	28	1-Feb-2018	1-Feb-2018	25%
Element 2	38	1-Dec-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Feb-18 to 31-Mar-18	140 X 25% X ((28+31)/365)	5.65		--	0.00
1-Apr-18 to 30-Nov-18	140 X 25% X (244/365)	23.39		--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59

Illustration-2: In case of extension of Scheduled COD as per Article 4.4.1 & 4.4.2 of this Agreement

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Jul-2018	25%
Element 2	28	1-Oct-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			**Transmission Charges for Element 2**		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-Jun-18	--	0.00		--	0.00
1-Jul-18 to 30-Nov-18	140 X 25% X (153/365)	14.67		--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59

Illustration-3: In case of delay in achieving COD of Project & all individual Elements (COD of the Project achieved in Contract Year 1)

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Dec-2018	25%
Element 2	28	1-Oct-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			**Transmission Charges for Element 2**		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-5ept-18	--	0.00		--	0.00
1-Oct-18 to 30-Nov-18	--	0.00	1-Oct-18 to 30-Nov-18	--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59

Illustration-4: In case of delay in achieving COD of Project & all individual Elements (COD of the Project achieved in Contract Year other than Contact Year 1)

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-May-2020	25%
Element 2	38	1-Oct-2019	1-May-2020	75%

Tariff Payment to be paid as:

Transmission Charges for Element 1			**Transmission Charges for Element 2**		
1-Oct-19 to 31-Mar-20	--	0.00	1-Oct-19 to 31-Mar-20	--	0.00
1-Apr-20 to 30-Apr-20	-	0.00	1-Apr-20 to 30-Apr-20	-	0.00
1-May-20 to 31-Mar-21	140 X 100% X (335/365)				128.49
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Apr)	140 X 100% X (30/ 365)				11.51

Illustration5: In case of delay in achieving COD of Element but Project COD achieved on time

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Jul-2018	25%
Element 2	30	1-Dec-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			**Transmission Charges for Element 2**		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-Jun-18	--	0.00		--	0.00
1-Jul-18 to 30-Nov-18	140 X 25% X (153/365)	14.67		--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59

Illustration-6: In case of early commissioning of Project

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-Jul-2019	25%
Element 2	38	1-Oct-2019	1-Jul-2019	75%

Tariff Payment to be paid as:

	Transmission Charges for Element 1	**Transmission Charges for Element 2**
1-July-19 to 31-Mar-20	140 X 100% X (274/365)	105.09
2	140 X 100% X 1	140
3	140 X 100% X 1	140
4	140 X 100% X 1	140
5	140 X 100% X 1	140
.....		
.....		
36 (1-Apr to 30-Jun)	140 X 100% X (91/365)	34.91

Illustration-7: In case of early commissioning of an element

Quoted Transmission Charges: **Rs. 140 Million**
Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-Apr-2019	25%
Element 2	38	1-Jul-2019	1-Jul-2019	75%

Tariff Payment to be paid as:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Apr-2019 to 30-Jun-19	140 X 25% X (91/365)	8.72	1-Apr-2019 to 30-Jun-19	--	0.00
1-July-19 to 31-Mar-20	140 X 100% X (274/ 365)				105.09
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr-30-Jun)	140 X 100% X (91/365)				34.91

The Transmission Charges shall be payable on monthly basis as computed above.

1.2 Computation of Monthly Transmission Charges

The Monthly Transmission Charges for any month m in a Contract Year n shall be calculated as below:

For AC System:

a. If Actual Transmission System Availability for the month m of contract year n is greater than or equal to 98% and less than or equal to 98.5%;

Monthly Transmission Charges MTC(m) = Tmn *1

a. If Actual Transmission System Availability for the month m of contract year n exceeds 98.5% and less than or equal to 99.75%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 98.5%)

c. If Actual Transmission System Availability for the month m of contract year n is greater than 99.75%;

Monthly Transmission Charges MTC(m) = Tmn * (99.75% / 98.5%)

d. If Actual Transmission System Availability for the month m of contract year n is less than 98%and greater than or equal to 95.00%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 98%)

e. If Actual Transmission System Availability for the month m of contract year falls below 95%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 98%) - 0.02 * (Tmn * (AA/ 95%)

For DC System:

a. If Actual Transmission System Availability for the month m of contract year n is greater than or equal to 95% and less than or equal to 96%;

Monthly Transmission Charges MTC(m) = Tmn *1

b. If Actual Transmission System Availability for the month m of contract year n exceeds 96% and less than or equal to 99.75%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 96%)

c. If Actual Transmission System Availability for the month m of contract year n is greater than 99.75%;

Monthly Transmission Charges MTC(m) = Tmn * (99.75% / 96%)

d. If Actual Transmission System Availability for the month m of contract year n is less than 95% and greater than or equal to 92.00%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 95%)

e. If Actual Transmission System Availability for the month m of contract year falls below 92%;

Monthly Transmission Charges MTC(m) = Tmn * (AA/ 95%) - 0.02 * (Tmn * (AA/ 92%)

where:

- AA is the actual Availability, as certified by RPC, as per procedure provided in Schedule 6.
- m is the month in Contract Year 'n'
- Tmn= Transmission Charges for the month 'm' in Contract Year 'n' = (=Transmission Charge/ no. of days in the Year n)* no. of days in month m

Provided, no Transmission Charges shall be paid during the period for which the RLDC has not allowed the operation of the Element/Project due to the failure of the TSP to operate it as per the provisions of the Grid Code.

1.3 RLDC Fee & Charges

The payment of RLDC fee & charges, in accordance with relevant regulations of CERC, shall be the responsibility of the TSP.

Transmission Service Agreement

Schedule: 5

Quoted Transmission Charges

[Quoted Transmission Charges from Annexure - 21 of the RFP of the Selected Bidder to be inserted here]

[To be incorporated from the Bid of the Selected Bidder submitted during the e-reverse auction after its selection]

Quoted Annual Transmission Charges: Rs. 3051.95 Million

Proportionate Transmission Charges payable for each Element of the Project:

Sl. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	Augmentation of Kurnool-IV PS by 400/220 kV, 4x500 MVA ICTs	24 months	8.57	Kurnool-IV Phase-I Transmission System and Element at Sl. No. 2 & 3
2.	220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 1 & 3
3.	400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 1 & 2
4.	Augmentation of Kurnool-IV PS by 765/400 kV, 2x1500 MVA and 400/220 kV, 6x500 MVA ICTs			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 5-10
5.	220 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4 & 6-10

Sl. No.	Name of the Transmission Element	Scheduled COD as per Gazette Notification	% of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
6.	400 kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	36 months	91.43	Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4,5 & 7-10
7.	Establishment of 4x1S00 MVA, 76S/400 kV Ooma Station with 2x330 MVAr (765 kV) bus reactors with space provision for establishment of 220 kV switchyard			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4,5,6 & 8-10
8.	LILO of Kurnool-IV – Bidar 765 kV 0/C line at Doma (about **20 kms**)			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-7, 9 & 10
9.	Ooma – Shadnagar GIS S/s (TGTRANSCO) 400 kV **Twin HTLS** D/C line (about **40 kms**) {TGTRANSCO to upgrade Shadnagar GIS (TGTRANSCO) S/s to 400 kV in matching time frame}			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-8 & 10
10.	Ooma – Kethiredipally (TGTRANSCO) 400 kV **Twin HTLS** D/C line (about **50 kms**)			Kurnool-IV Phase-I Transmission System and Element at Sl. No. 4-9

Transmission Service Agreement

Schedule: 6

Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024

Procedure for Calculation of Transmission System Availability Factor for a Month

1. Transmission system availability factor for nth calendar month ("TAFPn") shall be calculated by the respective transmission licensee, verified by the concerned Regional Load Dispatch Centre (RLDC) and certified by the Member-Secretary, Regional Power Committee of the region concerned, separately for each AC and HVDC transmission system and grouped according to sharing of transmission charges. In the case of the AC system, transmission System Availability shall be calculated separately for each Regional Transmission System and inter-regional transmission system. In the case of the HVDC system, transmission System Availability shall be calculated on a consolidated basis for all inter-state HVDC systems.

2. Transmission system availability factor for nth calendar month ("TAFPn") shall be calculated by considering the following:

   i) **AC transmission lines**: Each circuit of AC transmission line shall be considered as one element;

   ii) **Inter-Connecting Transformers (ICTs):** Each ICT bank (three single- phase transformers together) shall form one element;

   iii) **Static VAR Compensator (SVC):** SVC, along with SVC transformer, shall form one element;

   iv) **Bus Reactors or Switchable line reactors:** Each Bus Reactors or Switchable line reactors shall be considered as one element;

   v) **HVDC Bi-pole links:** Each pole of the HVDC link, along with associated equipment at both ends, shall be considered as one element;

   vi) **HVDC back-to-back station:** Each block of the HVDC back-to-back station shall be considered as one element. If the associated AC line (necessary for the transfer of inter-regional power through the HVDC back-to-back station) is not available, the HVDC back-to-back station block shall also be considered unavailable;

   vii) **Static Synchronous Compensation ("STATCOM"):** Each STATCOM shall be considered as a separate element.

3. The Availability of the AC and HVDC portion of the Transmission system shall be calculated

by considering each category of transmission elements as under:

TAFPn (in %) for AC system:

$$= \frac{(o \times AVo)+(p \times AVp)+(q \times AVq)+(r \times AVr)+(u \times AVu)}{(o+p+q+r+u)} \times 100$$

Where,

o	=	Total number of AC lines.
AVo	=	Availability of o number of AC lines
p	=	Total number of bus reactors/switchable line reactors
AVp	=	Availability of p number of bus reactors/switchable line reactors
q1	=	Total number of ICTs
AVq	=	Availability of q number of ICTs
r	=	Total number of SVCs
AVr	=	Availability of r number of SVCs
u	=	Total number of STATCOM
AVu	=	Availability of u number of STATCOM

TAFMn (in %) for HVDC System:

$$= \frac{\sum_{x=1}^{s} Cxbp\,(act) \times AVxbp + \sum_{y=1}^{t} Cy\,(act)btb \times AVybtb}{\sum_{x=1}^{s} Cxbp + \sum_{y=1}^{t} Cybtb} \times 100$$

Where

Cxbp(act)	=	Total actual operated capacity of x^{th} HVDC pole
Cxbp	=	Total rated capacity of x^{th} HVDC pole
AVxbp	=	Availability of x^{th} HVDC pole
Cybtb(act)	=	Total actual operated capacity of y^{th} HVDC back-to-back station block
Cybtb	=	Total rated capacity of y^{th} HVDC back-to-back station block
AVybtb	=	Availability of y^{th} HVDC back-to-back station block
s	=	Total no of HVDC poles
t	=	Total no of HVDC Back to Back blocks

4. The availability for each category of transmission elements shall be calculated based on the weightage factor, total hours under consideration and non-available hours for each element of that category. The formulae for calculation of the Availability of each category of the transmission elements are as per **Appendix-V**. The weightage factor for each category of transmission elements shall be considered as under:

   (a) For each circuit of the AC line – The number of sub-conductors in the line multiplied by ckt-km;

   (b) For each HVDC pole- The rated MW capacity x ckt-km;

   (c) For each ICT bank – The rated MVA capacity;

   (d) For SVC- The rated MVAr capacity (inductive and capacitive);

   (e) For Bus Reactor/switchable line reactors – The rated MVAr capacity;

   (f) For HVDC back-to-back stations connecting two Regional grids- Rated MW capacity of each block; and

   (g) For STATCOM – Total rated MVAr Capacity.

5. The transmission elements under outage due to the following reasons shall be deemed to be available:

   i. Shut down availed for maintenance of another transmission scheme or construction of new element or renovation/upgradation/additional capitalization in an existing system approved by the Commission. If the other transmission scheme belongs to the transmission licensee, the Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved. In case of a dispute regarding deemed availability, the matter may be referred to the Chairperson, CEA, within 30 days.

   ii. Switching off of a transmission line to restrict over-voltage and manual tripping of switched reactors as per the directions of the concerned RLDC.

   iii. Shut down of a transmission line due to the Project(s) of NHAI, Railways and Border Road Organization, including for shifting or modification of such transmission line or any other infrastructure project approved by Ministry of Power. Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved; Provided that apart from the deemed availability, any other costs involved in the process of such shutdown of transmission line shall not be borne by the DICs.

   Provided that such deemed availability shall be considered only for the period for which DICs are not affected by the shutdown of such transmission line.

6. For the following contingencies, the outage period of transmission elements, as certified by the Member Secretary, RPC, shall be excluded from the total time of the element under the period of consideration for the following contingencies:

   i) Outage of elements due to force majeure events beyond the control of the transmission licensee. However, whether the same outage is due to force majeure (not design failure) will be verified by the Member Secretary, RPC. A reasonable restoration time for the element shall be considered by the Member Secretary, RPC, and any additional time taken by the transmission licensee for restoration of the element beyond the reasonable time shall be treated as outage time attributable to the transmission licensee. Member Secretary, RPC may consult the transmission licensee or any expert for estimation of reasonable restoration time. Circuits restored through ERS (Emergency Restoration System) shall be considered as available;

   ii) Outage caused by grid incident/disturbance not attributable to the transmission licensee, e.g. faults in a substation or bays owned by another agency causing an outage of the transmission licensee's elements, and tripping of lines, ICTs, HVDC, etc., due to grid disturbance. However, if the element is not restored on receipt of direction from RLDC while normalizing the system following grid incident/disturbance within reasonable time, the element will be considered not available for the period of outage after issuance of RLDC's direction for restoration;

   iii) The outage period which can be excluded for the purpose of sub-clause (i) and (ii) of this clause shall be declared as under:

      a. Maximum up to one month by the Member Secretary, RPC;

      b. Beyond one month and up to three months after the decision at RPC;

      c. Beyond three months by the Commission for which the transmission license shall approach the Commission along with reasons and steps taken to mitigate the outage and restoration timeline.

7. Time frame for certification of transmission system availability: (1) The following schedule shall be followed for certification of availability by the Member Secretary of the concerned RPC:

   - Submission of outage data along with documentary proof (if any) and TAFPn calculation by Transmission Licensees to RLDC/ constituents
     – By the 5th of the following month;
   - Review of the outage data by RLDC / constituents and forward the same to respective

RPC – by 20th of the month;

- Issue of availability certificate by respective RPC – by the 3rd of the next month.

Appendix-V

FORMULAE FOR CALCULATION OF AVAILABILITY OF EACH CATEGORY OF TRANSMISSION ELEMENTS

For AC transmission system

$$AVo(\text{Availability of o no. of AC lines}) = \frac{\sum_{i=1}^{o} Wi(Ti - TNAi)/Ti}{\sum_{i=1}^{o} Wi}$$

$$AVq(\text{Availability of q no. of ICTs}) = \frac{\sum_{k=1}^{q} Wk(Tk - TNAk)/Tk}{\sum_{k=1}^{q} Wk}$$

$$AVr(\text{Availability of r no. of SVCs}) = \frac{\sum_{l=1}^{r=1} Wl(Tl - TNAl)/Tl}{\sum_{l=1}^{r} Wl}$$

$$AVp(\text{Availability of p no. of Switched Bus reactors}) = \frac{\sum_{m=1}^{p} Wm(Tm - TNAm)/Tm}{\sum_{m=1}^{p} Wm}$$

$$AVu(\text{Availability of u no. of STATCOMs}) = \frac{\sum_{n=1}^{u} Wn(Tn - TNAn)/Tn}{\sum_{n=1}^{u} Wn}$$

$$AV_{xbp}(\text{Availability of an individual HVDC pole}) = \frac{(Tx - TN)}{Tx}$$

AV_{ybb} (Availability of an individual HVDC Back-to-back Blocks) $= \frac{(Ty - TNAy)}{Ty}$

For the HVDC transmission system

For the new HVDC commissioned but not completed twelve months:

For first 12 months: [(AV_{xtp} or AV_{ytb})x95%/85%], subject to a ceiling of 95%.

Where,

o	=	Total number of AC lines;
AVo	=	Availability of o number of AC lines;
p	=	Total number of bus reactors/switchable line reactors;
AVp	=	Availability of p number of bus reactors/switchable line reactors;
q	=	Total number of ICTs;
AVq	=	Availability of q number of ICTs;
r	=	Total number of SVCs;
AVr	=	Availability of r number of SVCs;
U	=	Total number of STATCOM
AVu	=	Availability of u number of STATCOMs;
Wi	=	Weightage factor for *i*th transmission line;
Wk	=	Weightage factor for *k*th ICT;
Wl	=	Weightage factor for inductive & capacitive operation of *l*th SVC;
Wm	=	Weightage factor for mth bus reactor;
Wn	=	Weightage factor for nth STATCOM.

Ti, , *Tk*, *Tl*,	The total hours of i^{th} AC line, k^{th} ICT, l^{th} SVC, m^{th} Switched Bus Reactor
Tm, *Tn*, *Tx*, *Ty*	& n^{th} STATCOM, x^{th} HVDC pole, y^{th} HVDC back-to-back blocks during the period under consideration (excluding time period for outages not attributed to transmission licensee for the reasons given in Para 5 of the procedure)
T_{NAl} , T_{NAk}	The non-availability hours (excluding the time period for outages not T_{NAl}, T_{NAm}, attributable to transmission licensee taken as deemed availability as T_{NAn}, T_{NAn}, T_{NAX}, T_{NAY} per Para 5 of the procedure) for i^{th} AC line, k^{th} ICT, l^{th} SVC , m^{th} Switched Bus Reactor, n^{th} STATCOM, x^{th} HVDC pole and y^{th}HVDC back-to-back block.

Transmission Service Agreement

Schedule: 7

Entire Bid (both financial bid and technical bid) of the Selected Bidder to be attached here

Bid dated 10.03.2026 and 19.03.2026 shall be an integral part of this agreement.

Transmission Service Agreement

Schedule: 8

Contract Performance Guarantee

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign entities submitting Bids are required to follow the applicable law in their country.)

In consideration of the KURNOOL IV REZ POWER TRANSMISSION LIMITED , Urjanidhi, First Floor, Barakhamba Lane- 1, Connaught Place, New Delhi, Central Delhi- 110001, Delhi agreeing to undertake the obligations under the Transmission Service Agreement dated .....and the other RFP Project Documents and the Nodal Agency and the PFC Consulting Limited, agreeing to execute the *RFP Project Documents* with the Selected Bidder, regarding setting up the Project, the ..... [Insert name and address of the bank issuing the guarantee and address of the head office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to ..... (being the Nodal Agency) _at .....[Insert the Place from the address of the Nodal Agency indicated in the TSA] forthwith on demand in writing from the Nodal Agency or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees ..... Crores (Rs. .....) only [Insert the amount of the bank guarantee] on behalf of KURNOOL IV REZ POWER TRANSMISSION LIMITED.

This guarantee shall be valid and binding on the Guarantor Bank up to and including .....and shall not be terminable by notice or any change in the constitution of the Bank or the term of the Transmission Service Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rs. ..... Crores (Rs. .....) only. Our Guarantee shall remain in force until ..... [Insert the date of validity of the Guarantee as per Article 3.1.2 of this Agreement]. The Nodal Agency, shall be entitled to invoke this Guarantee up to three hundred sixty five (365) days of the last date of the validity of this Guarantee.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from ..... (in its roles as the Nodal Agency), made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by ..... [Insert name of the Selected Bidder], ...

[Insert name of the TSP] and / or any other person. The Guarantor Bank shall not require Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against Nodal Agency in respect of any payment made hereunder.

THIS BANK GUARANTEE shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

THIS BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

THIS BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against **KURNOOL IV REZ POWER TRANSMISSION LIMITED** or the Selected Bidder, as the case may be, to make any claim against or any demand on **KURNOOL IV REZ POWER TRANSMISSION LIMITED** or the Selected Bidder, as the case may be, or to give any notice to **KURNOOL IV REZ POWER TRANSMISSION LIMITED** or the Selected Bidder, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against **KURNOOL IV REZ POWER TRANSMISSION LIMITED** or the Selected Bidder, as the case may be.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that Nodal Agency shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rs. ..... Crores (Rs. .....) only and it shall remain in force until .....[Date to be inserted on the basis of Article 3.1.2of the Transmission Service Agreement], with an additional claim period of three hundred sixty five (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by KURNOOL IV REZ POWER TRANSMISSION LIMITED. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if Nodal Agency serves upon us a written claim or demand.

In witness where of:

Signature .....

Name: .....

Power of attorney No.: .....

For:

..... [Insert Name of the Bank]

Banker's Seal and Full Address, including mailing address of the Head Office

SCHEDULE 8A: FORMAT FOR SURETY INSURANCE CONTRACT

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.

Foreign entities submitting Bids are required to follow the applicable law of India)

In consideration of the.....[Insert name of the SPV or Selected Bidder on behalf of SPV or Lead Member in case of the Consortium, with address] (hereinafter referred to as the 'Principal Debtor' for the purposes of this Surety Insurance Contract as provided in Section 126 of the Indian Contract Act, 1872) having been selected to undertake the Transmission Project on the terms and conditions contained in the Transmission Service Agreement dated ...../ to be executed as per the Model Transmission Service Agreement provided along with the Request for Proposal ('RFP') and other RFP Project Documents, subject to the condition of providing a Performance Bank Guarantee or a Surety Insurance Contract guaranteeing/insuring the due performance of the obligations under the Transmission Service Agreement, to the Central Transmission Utility of India Limited ('CTUIL') [herein after referred to as the Nodal Agency], the [Insert name and address of the Insurance Company issuing the Surety Insurance Contract and address of the head office] (hereinafter referred to as "Surety") hereby agrees unequivocally, irrevocably, absolutely and unconditionally, without demur, to pay to the Nodal Agency at [Insert Place and Address of the Nodal Agency indicated in Transmission Service Agreement, or to the designated Bank Account of the Nodal Agency, namely.....] forthwith on demand in writing from the Nodal Agency, or any Officer authorized by it in this behalf, intimated to the Surety at the address mentioned above, any amount as may be decided by the Nodal Agency not exceeding Rupees .....Crores (Rs.....) only [Insert the amount of the Surety Insurance Contract]

The Surety hereby acknowledges, accepts and confirms that the Surety has received from the Principal Debtor, by way of premium the entire consideration for the Surety to execute, in favour of the Nodal Agency, this Surety Insurance Contract, as extended by the Surety from time to time and assuming the obligation to pay to the Nodal Agency the amount in terms hereof, without any requirement for payment of any other consideration to the Surety by the Principal Debtor, or otherwise.

This Surety Insurance Contract shall be valid and binding on the Surety, as the principal obligation of the Surety to pay on demand by the Nodal Agency, and shall not be terminable by notice or any change in the constitution of the Surety or the term of the Transmission Service Agreement or by any other reasons whatsoever and the liability hereunder of the Surety shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed (with or without the knowledge or consent of the Surety) by or between the Principal Debtor and the Nodal Agency.

The liability of the Surety under this Surety Insurance Contract is restricted to Rupees ..... Crores (Rs) only. The Surety Insurance Contract shall remain in force until [Insert the date of validity of the Surety Insurance Contract]. The Nodal Agency shall be entitled to invoke this Surety Insurance Contract up to three hundred sixty five (365) days after the last date of the validity of this Surety Insurance Contract.

The Surety hereby expressly agrees that it shall not require any proof except for the written demand from the Nodal Agency, containing the statement that the contractor has failed to meet its contractual obligations raised at the above mentioned address of the Surety (address of Surety office should be a place in NCR only) and the Surety shall pay the amount without reference to the Principal Debtor.

Any such demand made by the Nodal Agency on the Surety shall be conclusive and binding not withstanding any difference between the Nodal Agency and the Principal Debtor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Surety undertakes not to revoke this guarantee during its currency without previous consent of the Nodal Agency and further agrees that the Surety Insurance Contract herein contained shall continue to be enforceable till the Nodal Agency discharges this contract or till the expiry of tenor(including Claim period) whichever is earlier.

The Surety shall make payment hereunder within two (02) working days on first demand without restriction or conditions and notwithstanding any objection by the Principal Debtor, namely, ... [Insert name of SPV], or ..... [Insert name of the Selected Bidder], or ..... [Insert name of the TSP] and/or any other person. The Surety shall not require the Nodal Agency to justify the invocation of this Surety Insurance Contract, nor shall the Surety have any recourse against the Nodal Agency in respect of any payment made hereunder.

This SURETY INSURANCE CONTRACT shall be interpreted in accordance with the laws of India.

This SURETY INSURANCE CONTRACT is being executed by the Surety in terms of the IRDAI (Surety Insurance Contract) Guidelines, 2022 and the Surety hereby acknowledges, accepts and confirms that this Surety Insurance Contract shall be a Contract of Guarantee as provided under Section 126 of the Indian Contract Act, 1872 and further shall be covered by Section 14(3) (b) of the Insolvency and Bankruptcy Code, 2016 (as amended) shall be enforceable as such.

The Surety represents that this Surety Insurance Contract has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Surety in the manner provided herein.

This SURETY INSURANCE CONTRACT shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Surety.

In order to give effect to this surety Bond, the Nodal Agency shall be entitled to act as if the surety insurer were the principal debtor and any change in the constitution of the contractor and/or the surety insurer, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the surety insurer under this surety Bond.

This SURETY INSURANCE CONTRACT shall be a primary obligation of the Surety as a Principal to pay on demand by the Nodal Agency and the Nodal Agency shall not be obliged before enforcing this Surety Insurance Contract to take any action in any court or arbitral proceedings against the Principal Debtor, namely, ... [Insert name of SPV], or

..... [Insert name of the Selected Bidder], or ..... [Insert name of the TSP] and/or any other person, as the case may be, to make any claim against or any demand on the Principal Debtor, namely, ... [Insert name of SPV], or ..... [Insert name of the Selected Bidder], or ..... [Insert name of the TSP] and/or any other person, as the case may be, or to give any notice to Principal Debtor, namely..... [Insert name of SPV], or ..... [Insert name of the Selected Bidder], or ... . [Insert name of the TSP] and/or any other person, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against the Principal Debtor, namely, ... [Insert name of SPV], or ..... [Insert name of the Selected Bidder], or ..... [Insert name of the TSP] and/or any other person, as the case may be.

The Surety acknowledges that this Surety Insurance Contract is not personal to the Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement Provided that any such assignment shall be in compliance with the relevant provisions of the Insurance Act 1938

The Surety hereby agrees and acknowledges that the Nodal Agency shall have a right to invoke this Surety Insurance Contract either in part or in full, as it may deem fit. In case of invocation of this Surety Insurance Contract in part, besides making payment for the part of Surety Insurance Contract invoked, surety at the request of nodal agency shall amend the value of Surety Insurance Contract to the extent of balance amount.

The Surety undertakes not to revoke this Surety Contract during its currency, except with the previous express consent of the Nodal Agency in writing and declares and warrants that it has the power to issue this Surety Contract and the undersigned has full powers to do so on behalf of the Surety

In witness where of:

Signature.....

Name: .....

Power of attorney No/ Employee No. as applicable. :.....

For:

..... [Insert Name of the Surety- Insurance Company]

Banker's Seal and Full Address, including mailing address of the Head Office

Notes:

1. The Stamp Paper should be in the name of the Executing Insurance Company.

Transmission Service Agreement

SCHEDULE 8B:

FORMAT FOR ISSUANCE OF PAYMENT ON ORDER INSTRUMENT

Dear Sir,

1. Indian Renewable Energy Development Agency Limited ('IREDA")/PFC/REC has sanctioned a non-fund based limit loan of Rs. (Rupees..... Only) to M/s. ..... [Insert name of SPV or selected Bidder] under the Loan Agreement executed on ..... to execute Transmission System Projects.

2. In consideration of the.....[Insert name of the SPV or Selected Bidder on behalf of SPV or Lead Member in case of the Consortium, with address] for the purposes of this Payment on Order Instrument ("POI") having been selected to undertake the Transmission Project on the terms and conditions contained in the Transmission Service Agreement dated ...../ to be executed as per the draft of the Model Transmission Service Agreement provided along with the Request for Proposal („RFP") and other RFP Project Documents, subject to the condition of providing a POI guaranteeing the due performance of the obligations under the Transmission Service Agreement to the Nodal Agency/Central Transmission Utility of India Limited („CTUIL"), the.....[Insert name and address of the non-banking financial institutions(IREDA/PFC/REC) issuing the POI and address of the head office] (hereinafter referred to as "Guarantor") hereby agrees unequivocally, irrevocably, absolutely and unconditionally, without demur, to pay to the Nodal Agency at .....[Insert Place and Address of the Nodal Agency indicated in Transmission Service Agreement, or to the designated Bank Account of the Nodal Agency, namely.....] forthwith on demand in writing from the Nodal Agency, or any Officer authorized by it in this behalf, intimated to the Guarantor at the address mentioned above, any amount as may be decided by the Nodal Agency not exceeding Rupees Crores (Rs) only [Insert the amount of Payment on Order Instrument]

3. At the request of .....and on behalf of M/s. ....., [Insert name of SPV or selected Bidder] this Payment on Order Instrument (POI) for an amount of Rs ..... (Rupees .....) is being issued with IREDA/PFC/REC assuming the obligations to remit such amount to CTUIL from the sanctioned loan.

4. This Payment on Order Instrument comes into force immediately and IREDA/PFC/REC confirms that it has sufficient amount out of the sanctioned loan and shall maintain the required amount to pay under this Payment on Order Instrument, during the validity and claim period of this Payment on Order Instrument.

5. This POI has been issued by IREDA/PFC/REC utilizing the credit limit of M/s.....[Insert name of SPV or selected Bidder] IREDA/PFC/REC confirms that its liability to pay under this Payment on Order

Instrument shall be primary and independent of whether at the time of invocation of Payment on Order Instrument, the sanctioned funds are available or not and notwithstanding, the status of M/s. ..... [Insert name of SPV or selected Bidder] at the relevant time and to whether IREDA/PFC/REC is able to recover the amount advanced by it to the said developer.

6. IREDA/PFC/REC and M/s. [Insert name of SPV or selected Bidder] hereby acknowledges, accepts and confirms that this Payment on Order Instrument shall be a Contract of Guarantee as provided under Section 126 of the Indian Contract Act, 1872 and further shall be covered by Section 14(3) (b) of the Insolvency and Bankruptcy Code, 2016 (as amended) shall be enforceable as such.

7. IREDA/PFC/REC liability under this POI is restricted to Rupees Crores (Rs.....) only. This POI shall remain in force until..... [Insert the date of validity of the POI]. The Nodal Agency shall be entitled to invoke this POI up to three hundred sixty-five (365) days after the last date of the validity of this POI. This POI shall be extended from time to time for such period, as may be desired by the TSP.

8. The Guarantor hereby expressly agrees that it shall not require any proof except for the written demand from the Nodal Agency, raised at the above-mentioned address of the Guarantor (address of Guarantor office should be in NCR only) and the Guarantor shall pay the amount to the Nodal Agency without reference to the TSP.

9. Any such demand made by the Nodal Agency on the Guarantor shall be conclusive and binding not withstanding any difference between the Nodal Agency and the TSP or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Guarantor undertakes not to revoke this guarantee during its currency without previous consent of the Nodal Agency and further agrees that the POI herein contained shall continue to be enforceable till the Nodal Agency discharges this contract or till the expiry of tenure or (including Claim period) whichever is earlier.

10. The Guarantor shall make payment hereunder within two (02) working days on first demand without restriction or conditions and notwithstanding any objection or disputes raised by the TSP, namely, ... [Insert name of SPV], or [Insert name of the Selected Bidder], or ..... [Insert name of the TSP] and/or any other person. The Guarantor shall not require the Nodal Agency to justify the invocation of this POI, nor shall the Guarantor have any recourse against the Nodal Agency in respect of any payment made hereunder.

11. This POI shall be interpreted in accordance with the laws of India.

12. The Guarantor represents that this POI Contract has been established in such form and with such content that it is fully enforceable in accordance with its

terms as against the Guarantor in the manner provided herein.

13. This POI shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor.

14. This POI Contract shall be a primary obligation of the Guarantor as a Principal to pay on demand by the Nodal Agency and the Nodal Agency shall not be obliged before enforcing this POI Contract to take any action in any court or arbitral proceedings against the TSP, namely, ... [Insert name of SPV], or[Insert name of the Selected Bidder], or [Insert name of the TSP] and/or any other person, as the case may be to make any claim against or any demand on the TSP, namely, ... [Insert name of SPV], or ..... [Insert name of the Selected Bidder], or ..... [Insert name of the TSP] and/or any other person, as the case may be, or to give any notice to TSP, namely..... [Insert name of SPV], or..... [Insert name of the Selected Bidder], or ..... [Insert name of the TSP] and/or any other person, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against the TSP, namely, ... [Insert name of SPV], or ..... [Insert name of the Selected Bidder], or ..... [Insert name of the TSP] and/or any other person, as the case may be.

15. The Guarantor acknowledges that this POI Contract is not personal to the Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

16. The Guarantor hereby agrees and acknowledges that the Nodal Agency shall have a right to invoke this POI Contract either in part or in full, as it may deem fit. In case of invocation of this POI Contract in part, besides making payment for the part of POI Contract invoked, Guarantor at the request of Nodal Agency shall amend the value of POI Contract to the extent of balance amount.

IN WITNESS WHERE OF the non- banking financial institutions through its authorized officer, has set its hand and stamp on this..... day of.....at.....

Signature..... Name:

..... Power of

attorney No.: ..... For:

.....[Insert Name of the non- banking financial institutions Company]

Seal and Full Address, including mailing address of the Head Office

Schedule: 9

Methodology for determining the Relief Under Force Majeure Event & Change in Law during Construction Period

The relief in the form of revision in tariff due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days and/ or Change in Law during the construction period shall be as under:

$\Delta T = [(P \times d)] \div [1-(1+ d)^{(-n)}]$

Where,

ΔT = Change in Transmission Charges for each year

P = Sum of cumulative increase or decrease in the cost of the Project due to Change in Law and interest cost during construction corresponding to the period exceeding one hundred eighty (180) due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days

n = number of years over which the Transmission Charges has to be paid

d = Discount rate as notified by the CERC, applicable on the Bid Deadline

The increase in Transmission Charges as stated above shall be applicable only if the value of increase in Transmission Charges as calculated above exceeds 0.30% (zero point three percent) of the quoted Transmission Charges of the TSP.

KURNOOL IV REZ POWER TRANSMISSION LIMITED
Registered Office: Urjanidhi, First Floor, 1, Barakhamba Lane, Connaught Place, Central Delhi, New Delhi - 110001

CERTIFIED TRUE COPY OF THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF KURNOOL IV REZ POWER TRANSMISSION LIMITED ("THE COMPANY") ON MAY 29, 2026

AUTHORITY FOR MAKING PETITIONS TO CENTRAL ELECTRICITY REGULATORY COMMISSION ("CERC") AND TO DEAL ON BEHALF OF THE COMPANY

"RESOLVED THAT the directors of the Company and Mr. T. Amarendranath Reddy, **("Authorized Representative")** be and are hereby severally authorized to:

a) Make/file an application / petition/ appeals to CERC/Tribunals/APTEL/Courts for grant of transmission licence and adoption of tariff, approval for creation of security, adjudication or any other petition(s)/application(s)/appeal(s) under Electricity Act, 2003 and to execute all necessary applications, documents, undertakings in connection therewith and personally appear before CERC or any other related statutory authority as may be required from time to time on behalf of the Company;
b) File petitions before CERC from time to time on behalf of the Company;
c) appoint any consultant and lawyers for representing before CERC, APTEL, CEA, MOP or any other Regulatory Authority;
d) Deal with Nodal Agency/ Central Transmission Utility of India Limited ('CTUIL')/Central Electricity Authority or any other statutory agency for the purpose of Transmission Licence Tariff Adoption, for authorization under Section 164 of the Electricity Act, 2003, Connection Agreements etc. including signing and submission of undertaking on behalf of the Company for the purpose of compliance pertaining to TSA or any other law;
e) Register and operate online account of the Company to be created on CERC Portal, NSWS Portal or Portal of any other statutory authority for e-filing of petitions/applications; and
f) Do all such acts, deeds, matters and things necessary to give effect to this resolution for **Establishment of Transmission System for Kurnool-IV REZ - Phase-II (3 GW)** (hereinafter referred to as "Project") awarded to the Company by PFC Consulting Limited, the Bid Process Coordinator, appointed by the Ministry of Power.

RESOLVED FURTHER THAT a certified true copy of this resolution be issued, as may be required, under the signatures of any one of the Directors of the Company."

Certified true copy
For Kurnool IV REZ Power Transmission Limited

SANDIP MAITY

Sandip Maity
Additional Director
DIN: 10862280
Address: 1117A, Maruti Vihar, Chakarpur,
Gurugram - 122002, Haryana

Date: June 01, 2026
Place: Gurugram

Shubham Arya
Digitally signed by: Shubham Arya
DN: CN = Shubham Arya C = IN O = Personal
Date: 2026.06.04 14:48:09 +05'30'

FORM-I

Application Form for Grant of Transmission licence / Amendment in the Transmission licence

1. **Particulars of the Applicant**

(i) Name of the Applicant: Kurnool-IV REZ Transmission Limited

(ii) Status: Public Limited Company

(iii) Address: Resonia Limited, 5th Floor, RMZ Infinity, Plot No.15, Udyog Vihar Phase-IV, Sector-18, Gurugram, Haryana – 122008.

(iv) Name, Designation & Address of the Contact Person (2 persons):

Mr. Tatimakula Amarendranath Reddy (Director)

5th Floor, RMZ Infinity, Plot No.15, Udyog Vihar Phase-IV, Sector-18, Gurugram, Haryana – 122008.

Mr. Sandeep Rajpurohit (Chief Manager - Regulatory Affairs)

5th Floor, RMZ Infinity, Plot No.15, Udyog Vihar Phase-IV, Sector-18, Gurugram, Haryana – 122008.

(v) Contact Tel. No. (2 nos.): +91 9310490976, +91 9643426261

(vi) Fax No.: N.A.

(vii) Email ID(s): tan.reddy@resonia.com

regulatoyinfra@sterlitepower.com

(viii) Place of Incorporation / Registration: New Delhi

(ix) Year of Incorporation/ Registration: 2025

(x) Following documents are to be enclosed:

a) Certificate of registration: **Annexure P- 8 to the Petition.**

b) Original Power of Attorney of the signatory to commit the Applicant or its promoter: **Annexure P- 24 to the Petition.**

2. **Particulars of the Project for which licence / Amendment in licence (list of existing elements and proposed addition /deletion element in case) is being sought:**

a) Transmission Lines:

KURNOOL IV REZ POWER TRANSMISSION LIMITED

Shubham Arya

Digitally signed by: Shubham Arya
DN: CN = Shubham Arya C = IN O = Personal
Date: 2026.06.04 14:49:16 +05'30'

S. No.	Name (end-points location)	Voltage Class (kV)	Length (Km)	Type (S/C or D/C)	Remarks
1.	LILO of Kurnool-IV- Bidar 765kV D/c line at Doma	765 kV	(about 20 kms)	D/C	
2.	Doma- Shadnagar GIS S/s (TGTRANSCO) Twin HTLS D/c line	400 kV	(about 40 kms)	D/C	TGTRANSCO to upgrade Shadnagar GIS (TGTRANSCO) S/s to 400 kV in matching time frame.
3.	Doma-Kethiredipally (TGTRANSCO) 400 kV Twin HTLS D/C line	400 kV	(about 50 kms)	DC	

b) Sub-stations

S. No.	Name (location)	Voltage Level(s) (kV)	Transformer (Nos. and MVA capacity)	Reactive/capacitive compensation (device with MVAR capacity)	No. of Bays	Remarks
1.	Augmentation of Kurnool-IV PS	400/200 kV	-	400/220 kV, 4x500 MVA ICTs	400/220kV, 500 MVA, ICTs – 4 nos. 400kV ICT bays – 4 nos. 400kV Bus Sectionalizer: 1 set 220kV ICT bays – 4 nos. 220kV Bus Sectionalizer: 1 set	

KURNOOL IV REZ POWER TRANSMISSION LIMITED

					220 kV Bus Coupler (BC) Bay – 1 nos. 220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	
2.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	220 kV	-	-	220kV line bays – 5 nos.	
3.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	400 kV	-	-	400kV line bays – 1 no.	
4.	Augmentation of Kurnool-IV PS	765/400kV	-	2x1500 MVA and 400/220 kV, 6x500 MVA ICTs	765/400kV, 1500 MVA, ICTs – 2 nos. 765kV ICT bays – 2 nos. 400kV ICT bays – 2 nos. 400/220kV, 500 MVA, ICTs – 6 nos. 400kV ICT bays – 6 nos.	

KURNOOL IV REZ POWER TRANSMISSION LIMITED

					220kV ICT bays -- 6 nos. 220kV Bus Sectionalizer: 1 set 220 kV Bus Coupler (BC) Bay – 1 nos. 220 kV Transfer Bus Coupler (TBC) Bay – 1 no.	
5.	220kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	220 kV	-	-	220kV line bays – 8 nos.	
6.	400kV line bays at Kurnool-IV PS for termination of dedicated transmission lines of RE generation projects	400 kV	-	-	400kV line bays – 1 no.	
7.	Establishment of 4x1500 MVA, 765/400 kV Doma Station	765/400 kV	-	4x1500 MVA, 2x330 MVAr (765 kV) bus reactors	765/400kV, 1500 MVA, ICTs – 4 nos. (13x500 MVA incl. 1 spare unit) 765kV ICT bay – 4 nos.	

KURNOOL IV REZ POWER TRANSMISSION LIMITED

					400kV ICT bay – 4 nos. 765kV line bays – 4 nos. 765kV, 330 MVAr Bus Reactors – 2 nos. (7x110 MVAr inc. 1 switchable spare unit) 765kV Bus Reactor bays – 2 nos. 400kV line bays – 4 nos.	

a) Remarks: Status whether the element is existing or proposed to be added or deleted.

b) Scheduled COD: **29.05.2028 (Element 1 to 3) & 29.05.2029 (Element 4 to 10)**

c) Agreements with Identified Long-term transmission customers or CTU for the Project, as applicable: **With the Counterparty/ Nodal Agency- CTUIL**

3. **Quoted transmission charges in case of project selected through the guidelines of competitive bidding and estimated completion cost of the project in other cases:**

(The Quoted transmission charges or the estimated cost, as the case may be, should be indicated in INR, along with the base month and year in case of the estimated cost) 3051.95 million per annum.

4. **In case applicant has been selected in accordance with the competitive bidding guidelines, enclose:**

a) Approval of Central Government as per the Electricity (Transmission System Planning, Development and Recovery of Inter-state Transmission Charges) Rules, 2021.

b) Evaluation report (if made public) by the Bid Process Coordinator: **Not shared by BPC.**

5. **List of documents enclosed:** As per the Index

KURNOOL IV REZ POWER TRANSMISSION LIMITED

Dated: 03.06.2026

Place: New Delhi

KURNOOL IV REZ POWER TRANSMISSION LIMITED

(Signature of Applicant or the person Authorised)

KURNOOL IV REZ POWER TRANSMISSION LIMITED
Registered Office: Urjanidhi, First Floor, 1, Barakhamba Lane, Connaught Place, Central Delhi, New Delhi - 110001

CERTIFIED TRUE COPY OF THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF KURNOOL IV REZ POWER TRANSMISSION LIMITED ("THE COMPANY") ON MAY 29, 2026

AUTHORITY FOR MAKING PETITIONS TO CENTRAL ELECTRICITY REGULATORY COMMISSION ("CERC") AND TO DEAL ON BEHALF OF THE COMPANY

"RESOLVED THAT the directors of the Company and Mr. T. Amarendranath Reddy, **("Authorized Representative")** be and are hereby severally authorized to:

a) Make/file an application / petition/ appeals to CERC/Tribunals/APTEL/Courts for grant of transmission licence and adoption of tariff, approval for creation of security, adjudication or any other petition(s)/application(s)/appeal(s) under Electricity Act, 2003 and to execute all necessary applications, documents, undertakings in connection therewith and personally appear before CERC or any other related statutory authority as may be required from time to time on behalf of the Company;
b) File petitions before CERC from time to time on behalf of the Company;
c) appoint any consultant and lawyers for representing before CERC, APTEL, CEA, MOP or any other Regulatory Authority;
d) Deal with Nodal Agency/ Central Transmission Utility of India Limited ('CTUIL')/Central Electricity Authority or any other statutory agency for the purpose of Transmission Licence Tariff Adoption, for authorization under Section 164 of the Electricity Act, 2003, Connection Agreements etc. including signing and submission of undertaking on behalf of the Company for the purpose of compliance pertaining to TSA or any other law;
e) Register and operate online account of the Company to be created on CERC Portal, NSWS Portal or Portal of any other statutory authority for e-filing of petitions/applications; and
f) Do all such acts, deeds, matters and things necessary to give effect to this resolution for **Establishment of Transmission System for Kurnool-IV REZ - Phase-II (3 GW)** (hereinafter referred to as "Project") awarded to the Company by PFC Consulting Limited, the Bid Process Coordinator, appointed by the Ministry of Power.

RESOLVED FURTHER THAT a certified true copy of this resolution be issued, as may be required, under the signatures of any one of the Directors of the Company."

Certified true copy
For Kurnool IV REZ Power Transmission Limited

Sandip Maity
Additional Director
DIN: 10862280
Address: 1117A, Maruti Vihar, Chakarpur,
Gurugram - 122002, Haryana

Date: June 01, 2026
Place: Gurugram

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION
6th, 7th & 8th FLOORS, TOWER B, WORLD TRADE CENTRE,
NAUROJI NAGAR, NEW DELHI-110029
PETITION NO. /TL/2026

IN THE MATTER OF:
Kurnool-IV REZ Power Transmission Limited ...**Petitioner**

VERSUS

Central Transmission Utility of India Limited & Ors. ...**Respondents**

VAKALATNAMA

I, T. Amarendranath Reddy, working as Director in Kurnool-IV REZ Power Transmission Limited, the Petitioner in the above Petition do hereby appoint and retain R Associates, namely, Ms. Poorva Saigal, Mr. Shubham Arya, Ms. Pallavi Saigal, Ms. Reeha Singh, Mr. Rishabh Saxena, Ms. Shirin Gupta, Ms. Kaavya Madaan, Ms. Shree Dwivedi and Ms. Harsha Parakh Advocate/s to appear, plead and act for me/us in the above petition/application and to conduct and prosecute all the proceedings that may be taken in respect thereof and applications for return of documents, enter into compromise and to draw any moneys payable to me/us in the said proceeding also to appear in all applications for review and for leave to the Supreme Court of India in all applications for review of judgment.

KURNOOL IV REZ POWER TRANSMISSION LIMITED

Signature of the Party

Date: 03.06.2026

D/3053/2013

Executed in my presence

"Accepted"

D/1441/2015

D/3504/2021

(Address for service on the Counsel for Appellant/Respondent. Furnish
O-24/A, Basement, Ground and First Floor,
Jangpura Extension
New Delhi - 110014
Phone No. 011-36865659
Email: office@rassociates.in

D/3658/2018

D/10671/2021

D/3313/2024

D/7396/2025

D/7316/2024

MAH/18879/2025

Shubham Arya

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