

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)”

S. No.	Existing Provisions		Modified Provisions			
1.	All the relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025		All the relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025			
	Detailed Scope of Work		Detailed Scope of Work			
	Sl. No.	Scope of the Transmission Scheme	Capacity /km	S. No.	Scope of the Transmission Scheme	Capacity /km
	1.	-----	-----	1.	-----	-----
	2.	-----	-----	2.	-----	-----
	3.	-----	-----	3.	-----	-----
	4.	-----	-----	4.	-----	-----
	5.	-----	-----	5.	-----	-----
	6.	-----	-----	6.	-----	-----
	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.	765/400 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	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	• 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 –

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	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	
	9.	Shadnagar – Shadnagar	~ 50 km	8.
				LILO of Kurnool-IV – Bidar 765 kV D/C line at Shadnagar
				~ 20 km

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		(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))		
	10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line (about 60 kms)	~ 60 km 400kV 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 Kethiredipally each for termination of Shadnagar – Shadnagar (TGTRANSCO) 400 kV quad D/C line and Shadnagar – Kethiredipally (TGTRANSCO) 400 kV quad D/C line.				
		(about 20 kms)			
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 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.					

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S. No.	Existing Provisions					Modified Provisions				
						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.				
2.	All the relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025					All the relevant provisions of RFP & TSA read with Amendment No. 7 dated 12.09.2025				
	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	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.	-----			-----	1.	-----			-----
	2.	-----			-----	2.	-----			-----
	3.	-----			-----	3.	-----			-----
	4.	-----			-----	4.	-----			-----
						5.	-----			-----
						6.	-----			-----

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S. No.	Existing Provisions					Modified Provisions						
	5.	-----	30 months	91.43	-----	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					-----		
	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	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}			-----		
						10.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV	-----				

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S. No.	Existing Provisions					Modified Provisions				
	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		Twin HTLS D/C line (about 50 kms)			
3.	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>					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>				
	Transmission line	ACSR Conductor specified	Equivalent AAAC conductor based on	Equivalent minimum size of AL59 conductor based on 59%	Sub-conductor Spacing	Transmission line	Ampacity of HTLS conductor	Minimum Conductor diameter (mm)	Maximum DCResistance at 20°C (Ω/km)	Sub-conductor Spacing (mm)

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			53% conductivity of Al Alloy	conductivity of AL Alloy*		400 kV Transmission lines with Twin HTLS conductor	1516* A	28.62	0.0549	450
	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	Stranding details: 61/3.55mm 31.95mm diameter; 604 mm ² Aluminium alloy area Maximum DC Resistance at 20°C (Ω/km): 0.05506	Stranding details: 61/3.31mm 29.79 mm diameter; 525 mm ² Aluminium alloyarea Maximum DC Resistance at 20°C (Ω/km): 0.0566	457 mm	* Considering minimum 2100 MVA per circuit capacity at nominal voltage level.				

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		Minimum UTS: 161.20 kN	Minimum UTS: 159.80 kN	Minimum UTS: 124.70 kN			
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:	
						Configuration	Number of Diameters
						ICT- Tie- Line	4 (four)
						Bus Reactor- Tie- Space provision for Future Line with Switchable line Reactor*	2 (two)

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		* 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”.																		
5.	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 border="1" data-bbox="197 938 1155 1326"> <thead> <tr> <th>Sl. No</th><th>Line name</th><th>PLCC configuration</th></tr> </thead> <tbody> <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> </tbody> </table>	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.	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 border="1" data-bbox="1211 948 2175 1337"> <thead> <tr> <th>Sl. No</th><th>Line name</th><th>PLCC configuration</th></tr> </thead> <tbody> <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> </tbody> </table>	Sl. No	Line name	PLCC configuration	1.	Shadnagar – 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.	Shadnagar – Kethiredipally (TGTRANSCO) 400 kV Twin HTLS D/C line	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.
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.																		
Sl. No	Line name	PLCC configuration																		
1.	Shadnagar – Shadnagar (TGTRANSCO) 400 kV Twin HTLS D/C line	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.																		
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6.	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.	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>	LATITUDE	LONGITUDE	15°29'45.14"	77°14'45.55"	15°29'35.84"	77°15'7.72"	15°29'4.76"	77°14'50.61"	15°29'13.21"	77°14'28.60"
LATITUDE	LONGITUDE											
15°29'45.14"	77°14'45.55"											
15°29'35.84"	77°15'7.72"											
15°29'4.76"	77°14'50.61"											
15°29'13.21"	77°14'28.60"											