

Amendment-III dated 28.01.2026 to the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Intra-State Transmission system for “Construction of 220/132/33 kV AIS Substation, Ranipur (Mau) and 220/132/33kV AIS Substation, Chunar (Mirzapur) with their associated lines” through tariff based competitive bidding process.

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1.	SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION RFP & TSA	<p>2.0 TRANSFORMER (A) 220/132 kV 160MVA Transformer</p> <p>The transformers shall conform in all respect to latest edition of IS 2026 and CBIP specification except where specified otherwise. The transformer shall be core type, oil immersed, suitable for outdoor installation, suitable for continuous duty. The transformer shall be suitable for bi-directional flow of rated powers.</p> <p>Both 220KV and 132KV systems, where these transformers are to be used are effectively earthed.</p> <p>The rating and electrical characteristics of transformers shall be as follows:-</p> <table border="1"> <tr> <td>(i)</td> <td>Maximum continuous capacity</td> <td>160 MVA</td> </tr> <tr> <td>(ii)</td> <td>Frequency</td> <td>50 C/s</td> </tr> <tr> <td>(iii)</td> <td>No. of phase</td> <td>three</td> </tr> <tr> <td>(iv)</td> <td>Rated Voltage of HV winding</td> <td>220 KV</td> </tr> <tr> <td>(v)</td> <td>Rated Voltage of IV winding</td> <td>132 KV</td> </tr> <tr> <td>(vi)</td> <td>Rated voltage of Auxiliary winding</td> <td>11 KV</td> </tr> <tr> <td>(vii)</td> <td>Percentage impedance</td> <td></td> </tr> <tr> <td></td> <td>a) HV to IV at normal tap No. 13 at 100% rating.</td> <td>10% (±7.5%)</td> </tr> <tr> <td></td> <td>b) HV to IV at tap No. 1 at 100% rating.</td> <td>11% (±10%)</td> </tr> </table>	(i)	Maximum continuous capacity	160 MVA	(ii)	Frequency	50 C/s	(iii)	No. of phase	three	(iv)	Rated Voltage of HV winding	220 KV	(v)	Rated Voltage of IV winding	132 KV	(vi)	Rated voltage of Auxiliary winding	11 KV	(vii)	Percentage impedance			a) HV to IV at normal tap No. 13 at 100% rating.	10% (±7.5%)		b) HV to IV at tap No. 1 at 100% rating.	11% (±10%)	<p>2.0 TRANSFORMER (A) 220/132 kV 160MVA Transformer</p> <p>The transformers shall conform in all respect to latest edition of IS 2026 and CBIP specification except where specified otherwise. The transformer shall be core type, oil immersed, suitable for outdoor installation, suitable for continuous duty. The transformer shall be suitable for bi-directional flow of rated powers.</p> <p>Both 220KV and 132KV systems, where these transformers are to be used are effectively earthed.</p> <p>The rating and electrical characteristics of transformers shall be as follows:-</p> <table border="1"> <tr> <td></td> <td>Maximum continuous capacity</td> <td>160 MVA</td> </tr> <tr> <td>(ii)</td> <td>Frequency</td> <td>50 C/s</td> </tr> <tr> <td>(iii)</td> <td>No. of phase</td> <td>three</td> </tr> <tr> <td>(iv)</td> <td>Rated Voltage of HV winding</td> <td>220 KV</td> </tr> <tr> <td>(v)</td> <td>Rated Voltage of LV winding</td> <td>132 KV</td> </tr> <tr> <td>(vi)</td> <td>Rated voltage of Auxiliary winding</td> <td>deleted</td> </tr> <tr> <td>(vii)</td> <td>Percentage impedance</td> <td></td> </tr> <tr> <td></td> <td>a) HV to LV at normal tap No. 13 at 100% rating.</td> <td>10% (±7.5%)</td> </tr> <tr> <td></td> <td>b) HV to LV at tap No. 1 at 100% rating.</td> <td>11% (±10%)</td> </tr> <tr> <td></td> <td>c) HV to LV at Tap No. 17 at</td> <td>11% (±10%)</td> </tr> </table>		Maximum continuous capacity	160 MVA	(ii)	Frequency	50 C/s	(iii)	No. of phase	three	(iv)	Rated Voltage of HV winding	220 KV	(v)	Rated Voltage of LV winding	132 KV	(vi)	Rated voltage of Auxiliary winding	deleted	(vii)	Percentage impedance			a) HV to LV at normal tap No. 13 at 100% rating.	10% (±7.5%)		b) HV to LV at tap No. 1 at 100% rating.	11% (±10%)		c) HV to LV at Tap No. 17 at	11% (±10%)
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			c) HV to IV at Tap No. 17 at 100% rating.	11% ($\pm 10\%$)	100% rating.
			d) HV to tertiary	60% (min.)	d) HV to tertiary deleted
			e) IV to tertiary	45% (min.)	e) IV to tertiary deleted
		(viii)	Connections		(viii) Connections
			a) Series and common winding	Star	a) HV and LV Windings Star (added)
			b) Auxiliary winding	delta	b) Auxiliary winding deleted
		(ix)	Reference voltage group and terminal markings	HV/IV/ Tertiary YNa0d11.	(ix) Reference voltage group and terminal markings HV/LV YNa0.
		(x)	On load taps equal steps of	(-5%) to (+15%) in 1.25% each for IV variation.	(x) On load taps equal steps of (-5%) to (+15%) in 1.25% each for LV variation.
		(xi)	Polarity	Subtractive	(xi) Polarity Subtractive
		(xii)	Type of Cooling	ONAN-96MVA/ONAF-128MVA/OF AF-160MVA	(xii) Type of Cooling ONAN-96MVA/ONAF-128MVA/OF AF-160MVA
		(xiii)	Rated capacity of auxiliary winding (Loaded)	45 MVA	(xiii) Rated capacity of auxiliary winding (Loaded) deleted
		(xiv)	D.C. Voltage for relays etc.	110 V/220V DC (as required)	(xiv) D.C. Voltage for relays etc. 110 V/220V DC (as required)
		Losses for 220/132 kV, 160 MVA Transformer will be as follows:-		The no load loss in kW at rated voltage and frequency, the load losses, I ² R loss at rated output, rated voltage and frequency at 75°C and Auxilliary losses at rated output, rated voltage and frequency at ambient temperature shall be guaranteed as under for each Transformer.	
		1. No load loss at rated voltage and frequency at principal tap : 30KW (Max.)		1. No load loss – should not be more than 30 KW.	

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		<p>2. Max I²R Loss at rated current and at 75°C for HV and LV windings, at principal tap position: 145KW</p> <p>3. Max. Load Loss at rated current and at 75°C for HV and LV windings at principal tap position: 200 KW (Max)</p> <p>4. <u>Auxilliary losses at rated output, rated voltage and fequency at ambient temperature: 6.0 KW (Max.)</u></p> <p>5. Total loss at normal ratio inclusive of auxilliary Component losses : <u>236 KW</u> at 75 degree celsius : <u>236 KW</u> (Max)</p>	<p>2. Load Loss - should not be more than 200 KW.</p> <p>3. I²R Loss - should not be more than 145 KW.</p> <p>4. Auxiliary Loss - should not be more than 6 KW.</p>
2.	General	All references to tertiary winding of 160 MVA transformer appearing anywhere in the RFP, Technical Specifications, Drawings, Schedules, Annexures or Appendices	All such references shall be read as deleted and not applicable for the subject project.
3.	Scope of the Transmission Scheme of RFP & Schedule 1, Scope of the Project of TSA	<u>UPPTCL to provide adequate land for construction of 220/132/33 kV, 2×160+2×40 MVA substation Ranipur (Mau), free of cost and shall be handed over to TSP on as is where is basis.</u>	<u>The land required for construction of the 220/132/33 kV, 2×160 MVA + 2×40 MVA Substation at Ranipur (Mau) shall be made available to the Developer on an “as is where is” basis. The cost of land, amounting to ₹4.56 crore, shall be borne by the Developer and reimbursed to UPPTCL prior to taking over possession of the land.</u>