

Amendment-III dated 23.07.2025 to the RFP Documents for selection of bidder as Transmission Service Provider to establish intra-state transmission project namely “Establishment of 400/220/132 kV AIS Umred (Dist. Nagpur)” through tariff based competitive bidding process.

S. No.	Clause No.	Existing Provisions	New / Revised Provisions																								
1.	SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINES of RFP & TSA Document	A.8.0 The required phase to phase spacing and horizontal spacing for 400 kV line shall be governed by the tower design as well as minimum live metal clearances for 400 kV voltage level under different insulator swing angles. However, the phase to phase spacing for 400 kV lines shall not be less than 8 m.	A.8.0 The required phase to phase spacing and horizontal spacing for 400 kV, <u>220 kV & 132 kV lines</u> shall be governed by the tower design as well as minimum live metal clearances for 400 kV, <u>220 kV & 132 kV voltage levels</u> under different insulator swing angles. However, the phase to phase spacing for 400 kV lines shall not be less than 8 m, <u>phase to phase spacing for 220 kV lines shall not be less than 5 m and phase to phase spacing for 132 kV lines shall not be less than 4 m.</u>																								
2.	SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINES of RFP & TSA Document	<p>A.9.0 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.</p> <p>I. <u>Minimum live metal clearances for 400 kV line:</u></p> <p>a. Under stationary conditions: From tower body: 3.05 m</p> <p>b. Under Swing conditions.</p> <table border="1" data-bbox="622 1137 1267 1297"> <thead> <tr> <th>Wind Condition</th> <th>Pressure</th> <th>Minimum Clearance</th> <th>Electrical</th> </tr> </thead> <tbody> <tr> <td>a) Swing angle (22°)</td> <td></td> <td>3.05 m</td> <td></td> </tr> <tr> <td>b) Swing angle (44°)</td> <td></td> <td>1.86 m</td> <td></td> </tr> </tbody> </table>	Wind Condition	Pressure	Minimum Clearance	Electrical	a) Swing angle (22°)		3.05 m		b) Swing angle (44°)		1.86 m		<p>A.9.0 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.</p> <p>I. <u>Minimum live metal clearances for 400 kV line:</u></p> <p>a. Under stationary conditions: From tower body: 3.05 m</p> <p>b. Under Swing conditions.</p> <table border="1" data-bbox="1341 1137 1986 1297"> <thead> <tr> <th>Wind Condition</th> <th>Pressure</th> <th>Minimum Clearance</th> <th>Electrical</th> </tr> </thead> <tbody> <tr> <td>a) Swing angle (22°)</td> <td></td> <td>3.05 m</td> <td></td> </tr> <tr> <td>b) Swing angle (44°)</td> <td></td> <td>1.86 m</td> <td></td> </tr> </tbody> </table> <p>c. Minimum ground clearance for 400 kV line: 8.84 m</p>	Wind Condition	Pressure	Minimum Clearance	Electrical	a) Swing angle (22°)		3.05 m		b) Swing angle (44°)		1.86 m	
Wind Condition	Pressure	Minimum Clearance	Electrical																								
a) Swing angle (22°)		3.05 m																									
b) Swing angle (44°)		1.86 m																									
Wind Condition	Pressure	Minimum Clearance	Electrical																								
a) Swing angle (22°)		3.05 m																									
b) Swing angle (44°)		1.86 m																									

Amendment-III dated 23.07.2025 to the RFP Documents for selection of bidder as Transmission Service Provider to establish intra-state transmission project namely “Establishment of 400/220/132 kV AIS Umred (Dist. Nagpur)” through tariff based competitive bidding process.

S. No.	Clause No.	Existing Provisions	New / Revised Provisions								
		<p>c. Minimum ground clearance for 400 kV line: 8.84 m</p> <p>d. Minimum mid span separation between earth wire and conductor for 400 kV line: 9.0 m.</p>	<p>d. Minimum mid span separation between earth wire and conductor for 400 kV line: 9.0 m.</p> <p>II. <u>Minimum live metal clearances for 220 kV line:</u></p> <p>a. <u>Under stationary conditions : From tower body: 2.13m</u></p> <p>b. <u>Under swing conditions:</u></p> <table border="1" data-bbox="1341 630 1986 831"> <thead> <tr> <th><u>Wind Pressure Condition</u></th> <th><u>Minimum Electrical Clearance</u></th> </tr> </thead> <tbody> <tr> <td><u>a) Swing angle (15°)</u></td> <td><u>1.98 m</u></td> </tr> <tr> <td><u>b) Swing angle (30°)</u></td> <td><u>1.83 m</u></td> </tr> <tr> <td><u>c) Swing angle (45°)</u></td> <td><u>1.675 m</u></td> </tr> </tbody> </table> <p>c. <u>Minimum ground clearance: 7.015 m.</u></p> <p>d. <u>Minimum mid span separation between earth-wire and conductor: 8.5 m.</u></p> <p>e. <u>However, the phase spacing for 220 kV D/C Line shall be not less than 5.0 m.</u></p> <p>III. <u>Minimum live metal clearances for 132 kV line:</u></p> <p>a. <u>Under stationary conditions : From tower body: 1.53m</u></p> <p>b. <u>Under swing conditions:</u></p>	<u>Wind Pressure Condition</u>	<u>Minimum Electrical Clearance</u>	<u>a) Swing angle (15°)</u>	<u>1.98 m</u>	<u>b) Swing angle (30°)</u>	<u>1.83 m</u>	<u>c) Swing angle (45°)</u>	<u>1.675 m</u>
<u>Wind Pressure Condition</u>	<u>Minimum Electrical Clearance</u>										
<u>a) Swing angle (15°)</u>	<u>1.98 m</u>										
<u>b) Swing angle (30°)</u>	<u>1.83 m</u>										
<u>c) Swing angle (45°)</u>	<u>1.675 m</u>										

Amendment-III dated 23.07.2025 to the RFP Documents for selection of bidder as Transmission Service Provider to establish intra-state transmission project namely “Establishment of 400/220/132 kV AIS Umred (Dist. Nagpur)” through tariff based competitive bidding process.

S. No.	Clause No.	Existing Provisions	New / Revised Provisions										
			<table border="1" data-bbox="1344 277 1986 520"> <thead> <tr> <th data-bbox="1352 284 1653 357"><u>Wind Pressure Condition</u></th> <th data-bbox="1659 284 1977 357"><u>Minimum Electrical Clearance</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="1352 362 1653 397">a) <u>Swing angle (15°)</u></td> <td data-bbox="1659 362 1977 397"><u>1.53 m</u></td> </tr> <tr> <td data-bbox="1352 402 1653 437">b) <u>Swing angle (30°)</u></td> <td data-bbox="1659 402 1977 437"><u>1.37 m</u></td> </tr> <tr> <td data-bbox="1352 442 1653 477">c) <u>Swing angle (45°)</u></td> <td data-bbox="1659 442 1977 477"><u>1.22 m</u></td> </tr> <tr> <td data-bbox="1352 481 1653 517">d) <u>Swing angle (60°)</u></td> <td data-bbox="1659 481 1977 517"><u>1.07 m</u></td> </tr> </tbody> </table> <p data-bbox="1312 563 1843 598">c. <u>Minimum ground clearance: 6.1 m.</u></p> <p data-bbox="1312 639 2033 713">d. <u>Minimum mid span separation between earthwire and conductor: 6.1 m.</u></p> <p data-bbox="1312 719 2033 793">e. <u>However, the phase spacing for 132kV D/C Line shall be not less than 4.0 m.</u></p>	<u>Wind Pressure Condition</u>	<u>Minimum Electrical Clearance</u>	a) <u>Swing angle (15°)</u>	<u>1.53 m</u>	b) <u>Swing angle (30°)</u>	<u>1.37 m</u>	c) <u>Swing angle (45°)</u>	<u>1.22 m</u>	d) <u>Swing angle (60°)</u>	<u>1.07 m</u>
<u>Wind Pressure Condition</u>	<u>Minimum Electrical Clearance</u>												
a) <u>Swing angle (15°)</u>	<u>1.53 m</u>												
b) <u>Swing angle (30°)</u>	<u>1.37 m</u>												
c) <u>Swing angle (45°)</u>	<u>1.22 m</u>												
d) <u>Swing angle (60°)</u>	<u>1.07 m</u>												