

Clarification No.-I dated 07/07/2026 to the Bidding Documents of Transmission Line Package TW13B including tower, conductor, insulators, OPGW (Installation and Commissioning only), hardware fitting and accessories for conductor for i) 132kV S/C on D/C Tower Daporijo–Nacho associated with Comprehensive Scheme for Strengthening of Transmission & Distribution system in Arunachal Pradesh. Spec. No.: CC/NT/W-TW/DOM/A00/26/07905

Sl. No	Clause Ref. No.	Existing provision	Bidder's Query	POWERGRID Clarification																																																																																																																																																																																																																																				
1.	Schedule-I & II of the BPS {Volume-III of the bidding documents} & SECTION-VIII of the Technical Specification {Volume-II of the bidding documents}	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Service Code</th> <th>Description</th> <th>Unit</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>1000033771</td> <td>90KN COMPOSITE INSULATOR FOR 132KV WITH LENGTH 1595MM</td> <td>SET</td> <td>1177</td> </tr> </tbody> </table> <p>Section-VIII Annexure-B</p> <p>A) Standard Technical Particulars of Composite Long Rod Insulator unit:</p> <p>1. For Transmission Line upto 400 kV</p> <table border="1"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th rowspan="2">Description</th> <th rowspan="2">Unit</th> <th colspan="3">132 kV AC</th> <th colspan="3">220 kV AC (single ZEBRA)</th> <th colspan="3">220 kV AC (Twin MOOSE)</th> </tr> <tr> <th>90 KN</th> <th>70 KN</th> <th>120 KN</th> <th>120KN</th> <th>160KN</th> <th>90KN</th> <th>120</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Size and Designation of Ball & Socket assembly</td> <td>mm</td> <td>16 mm (Alt-B)</td> <td>16 mm (Alt-B)</td> <td>20 mm</td> <td>20 mm</td> <td>20 mm</td> <td>16mm (Alt-B)</td> <td>20 r</td> </tr> <tr> <td>2</td> <td>Core diameter*</td> <td>mm</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>24</td> <td>20</td> <td></td> </tr> <tr> <td>3</td> <td>Nominal length</td> <td>mm</td> <td>1450</td> <td>2030</td> <td>2175</td> <td>2030</td> <td>2210</td> <td>3335</td> <td>3</td> </tr> <tr> <td>4</td> <td>Minimum Creepage distance</td> <td>mm</td> <td>4495</td> <td>7595</td> <td>7595</td> <td>7595</td> <td>7595</td> <td>13020</td> <td>1:</td> </tr> <tr> <td>5</td> <td>No. of grading rings (min.)</td> <td>Nos.</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td></td> </tr> <tr> <td>6</td> <td>Nominal Outer Diameter of grading ring</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>a)</td> <td>Covered ring ***</td> <td>mm</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>300</td> <td>:</td> </tr> <tr> <td>b)</td> <td>Other rings (Open type)</td> <td>mm</td> <td>200</td> <td>200</td> <td>200</td> <td>200</td> <td>200</td> <td>300</td> <td>:</td> </tr> <tr> <td>7</td> <td>Depth of grading ring (open type)</td> <td>mm</td> <td>105-125</td> <td>105-125</td> <td>105-125</td> <td>105-125</td> <td>140-150</td> <td>105-125</td> <td>10:</td> </tr> </tbody> </table>	Sl. No.	Service Code	Description	Unit	Qty	20	1000033771	90KN COMPOSITE INSULATOR FOR 132KV WITH LENGTH 1595MM	SET	1177	Sl. No.	Description	Unit	132 kV AC			220 kV AC (single ZEBRA)			220 kV AC (Twin MOOSE)			90 KN	70 KN	120 KN	120KN	160KN	90KN	120	1	Size and Designation of Ball & Socket assembly	mm	16 mm (Alt-B)	16 mm (Alt-B)	20 mm	20 mm	20 mm	16mm (Alt-B)	20 r	2	Core diameter*	mm	20	20	20	20	24	20		3	Nominal length	mm	1450	2030	2175	2030	2210	3335	3	4	Minimum Creepage distance	mm	4495	7595	7595	7595	7595	13020	1:	5	No. of grading rings (min.)	Nos.	1	1	1	1	1	2		6	Nominal Outer Diameter of grading ring									a)	Covered ring ***	mm	NA	NA	NA	NA	NA	300	:	b)	Other rings (Open type)	mm	200	200	200	200	200	300	:	7	Depth of grading ring (open type)	mm	105-125	105-125	105-125	105-125	140-150	105-125	10:	<p>2. Clarification on Length of 132 kV, 90 kN Composite Insulator</p> <p>a) For Transmission Line Package TW13B: The BOQ/specification indicates the length of the 132 kV, 90 kN Composite Insulator as 1595 mm, whereas the Technical Specification specifies the length as 1450 mm for the same rating (copy enclosed for reference).</p> <p>A) Standard Technical Particulars of Composite Long Rod Insulator unit:</p> <p>1. For Transmission Line upto 400 kV</p> <table border="1"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th rowspan="2">Description</th> <th rowspan="2">Unit</th> <th colspan="3">132 kV AC</th> <th colspan="3">220 kV AC (single ZEBRA)</th> <th colspan="3">220 kV AC (Twin MOOSE)</th> </tr> <tr> <th>90 KN</th> <th>70 KN</th> <th>120 KN</th> <th>120KN</th> <th>160KN</th> <th>90KN</th> <th>120</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Size and Designation of Ball & Socket assembly</td> <td>mm</td> <td>16 mm (Alt-B)</td> <td>16 mm (Alt-B)</td> <td>20 mm</td> <td>20 mm</td> <td>20 mm</td> <td>16mm (Alt-B)</td> <td>20 r</td> </tr> <tr> <td>2</td> <td>Core diameter*</td> <td>mm</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>24</td> <td>20</td> <td></td> </tr> <tr> <td>3</td> <td>Nominal length</td> <td>mm</td> <td>1450</td> <td>2030</td> <td>2175</td> <td>2030</td> <td>2210</td> <td>3335</td> <td>3</td> </tr> <tr> <td>4</td> <td>Minimum Creepage distance</td> <td>mm</td> <td>4495</td> <td>7595</td> <td>7595</td> <td>7595</td> <td>7595</td> <td>13020</td> <td>1:</td> </tr> <tr> <td>5</td> <td>No. of grading rings (min.)</td> <td>Nos.</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td></td> </tr> <tr> <td>6</td> <td>Nominal Outer Diameter of grading ring</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>a)</td> <td>Covered ring ***</td> <td>mm</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>300</td> <td>:</td> </tr> <tr> <td>b)</td> <td>Other rings (Open type)</td> <td>mm</td> <td>200</td> <td>200</td> <td>200</td> <td>200</td> <td>200</td> <td>300</td> <td>:</td> </tr> <tr> <td>7</td> <td>Depth of grading ring (open type)</td> <td>mm</td> <td>105-125</td> <td>105-125</td> <td>105-125</td> <td>105-125</td> <td>140-150</td> <td>105-125</td> <td>10:</td> </tr> </tbody> </table> <p>Kindly clarify the applicable insulator length to be considered for bidding purposes. We request you to kindly provide the above clarifications at the earliest to enable us to submit a technically compliant bid. Thanking you in anticipation of your kind response.</p>	Sl. No.	Description	Unit	132 kV AC			220 kV AC (single ZEBRA)			220 kV AC (Twin MOOSE)			90 KN	70 KN	120 KN	120KN	160KN	90KN	120	1	Size and Designation of Ball & Socket assembly	mm	16 mm (Alt-B)	16 mm (Alt-B)	20 mm	20 mm	20 mm	16mm (Alt-B)	20 r	2	Core diameter*	mm	20	20	20	20	24	20		3	Nominal length	mm	1450	2030	2175	2030	2210	3335	3	4	Minimum Creepage distance	mm	4495	7595	7595	7595	7595	13020	1:	5	No. of grading rings (min.)	Nos.	1	1	1	1	1	2		6	Nominal Outer Diameter of grading ring									a)	Covered ring ***	mm	NA	NA	NA	NA	NA	300	:	b)	Other rings (Open type)	mm	200	200	200	200	200	300	:	7	Depth of grading ring (open type)	mm	105-125	105-125	105-125	105-125	140-150	105-125	10:	<p>Bidder to quote as per the BPS & Annexure - B of Section-VIII of the Technical Specification except nominal length which shall be as per BPS. Further, Bidder may refer to the Clause 4.1.1 of Section-VIII of the Technical Specification for type testing requirements due to elevated altitude of the line.</p>
Sl. No.	Service Code	Description	Unit	Qty																																																																																																																																																																																																																																				
20	1000033771	90KN COMPOSITE INSULATOR FOR 132KV WITH LENGTH 1595MM	SET	1177																																																																																																																																																																																																																																				
Sl. No.	Description	Unit	132 kV AC			220 kV AC (single ZEBRA)			220 kV AC (Twin MOOSE)																																																																																																																																																																																																																															
			90 KN	70 KN	120 KN	120KN	160KN	90KN	120																																																																																																																																																																																																																															
1	Size and Designation of Ball & Socket assembly	mm	16 mm (Alt-B)	16 mm (Alt-B)	20 mm	20 mm	20 mm	16mm (Alt-B)	20 r																																																																																																																																																																																																																															
2	Core diameter*	mm	20	20	20	20	24	20																																																																																																																																																																																																																																
3	Nominal length	mm	1450	2030	2175	2030	2210	3335	3																																																																																																																																																																																																																															
4	Minimum Creepage distance	mm	4495	7595	7595	7595	7595	13020	1:																																																																																																																																																																																																																															
5	No. of grading rings (min.)	Nos.	1	1	1	1	1	2																																																																																																																																																																																																																																
6	Nominal Outer Diameter of grading ring																																																																																																																																																																																																																																							
a)	Covered ring ***	mm	NA	NA	NA	NA	NA	300	:																																																																																																																																																																																																																															
b)	Other rings (Open type)	mm	200	200	200	200	200	300	:																																																																																																																																																																																																																															
7	Depth of grading ring (open type)	mm	105-125	105-125	105-125	105-125	140-150	105-125	10:																																																																																																																																																																																																																															
Sl. No.	Description	Unit	132 kV AC			220 kV AC (single ZEBRA)			220 kV AC (Twin MOOSE)																																																																																																																																																																																																																															
			90 KN	70 KN	120 KN	120KN	160KN	90KN	120																																																																																																																																																																																																																															
1	Size and Designation of Ball & Socket assembly	mm	16 mm (Alt-B)	16 mm (Alt-B)	20 mm	20 mm	20 mm	16mm (Alt-B)	20 r																																																																																																																																																																																																																															
2	Core diameter*	mm	20	20	20	20	24	20																																																																																																																																																																																																																																
3	Nominal length	mm	1450	2030	2175	2030	2210	3335	3																																																																																																																																																																																																																															
4	Minimum Creepage distance	mm	4495	7595	7595	7595	7595	13020	1:																																																																																																																																																																																																																															
5	No. of grading rings (min.)	Nos.	1	1	1	1	1	2																																																																																																																																																																																																																																
6	Nominal Outer Diameter of grading ring																																																																																																																																																																																																																																							
a)	Covered ring ***	mm	NA	NA	NA	NA	NA	300	:																																																																																																																																																																																																																															
b)	Other rings (Open type)	mm	200	200	200	200	200	300	:																																																																																																																																																																																																																															
7	Depth of grading ring (open type)	mm	105-125	105-125	105-125	105-125	140-150	105-125	10:																																																																																																																																																																																																																															