


Clarification No-II dated 09/06/2026 to the Bidding Document for Package OPGW- 09 for OPGW works in Eastern Region and North - Eastern Region under 38th NCT associated with “(i) Scheme for installation of OPGW & associated communication systems on the existing ISTS lines in ER region and (ii) Installation of OPGW & associated communication systems on the existing lines of ISTS in NER region”. Spec No: CC/NT/W-OPGW/DOM/A06/26/06297.

Sl. No.	Ref. document	Provision in bidding document	Bidders Queries/Observation	POWERGRID Reply/Clarification
1.		General Query.	48F and 96F OPGW is required under this package. Quantity bifurcation is not provided in the Price Schedule. Please confirm the quantity of OPGW required along with transmission line details and its wind zone details.	<p>The quantities for 24/48/96F are clearly specified in the Price Schedule.</p> <p>Reference may be made to Appendix-A of the Volume-II Technical Specification (TS), where the voltage levels and line details are clearly specified.</p> <p>Further, the line details have already been provided in the Technical Specification (TS) under Appendix-A. The same may be considered as tentative parameters for Wind Zone. Line-wise Wind Zone details shall be furnished during the detailed engineering stage.</p>
2.	Page No. 9 &10 of Vol-II, Part-3, Section-2 Clause 2.1.3.2	OPGW Parameters to be considered for different line voltage and wind zones	<p>96F OPGW is also required. However, the design parameters of proposed 96F OPGW design may differ from the technical parameters given in table in clause 2.1.3.2 of Section-02 of Technical Specifications_part_1.</p> <p>Please confirm if this is acceptable subject to meeting the sag and tension criteria.</p>	<p>Standard OPGW designs shall be adopted as per Clause 2.1.3.2 of Section-02 of the Technical Specifications. However, in case of any constraints in adopting the standard design, the Contractor may propose customized design(s) during the detailed engineering stage to meet the sag and tension requirements.</p> <p>As per the requirement, the quantity of 96F OPGW is specified in the Price Schedule. The wind Zone details shall be shared during detailed engineering.</p>

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3.	Page no 45 of Volume-II Part 1 of 2	<p>TS OPGW-08 WR-II-Part 1 of 4, (Appendix- I, Apr 26, Revision-02)</p> <p>Fibre Optic Approach Cable Installation Manual  <b>APPROACH CABLE INSTALLATION AND HANDLING DOCUMENT</b></p> <p><u>Approach Cable Structure</u></p>  <p><b>Dimensions and Properties</b></p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>24 G652D</th> <th>48 G652D</th> </tr> </thead> <tbody> <tr> <td rowspan="7">Physical</td> <td>Fibre Count</td> <td></td> <td></td> </tr> <tr> <td>No. of Fibre Per Tube</td> <td>4</td> <td>8</td> </tr> <tr> <td>Cable OD</td> <td colspan="2">11.5 mm</td> </tr> <tr> <td>Cross Sectional Area</td> <td colspan="2">100 mm<sup>2</sup></td> </tr> <tr> <td>Cable Weight</td> <td colspan="2">Approx. 130 kg/km</td> </tr> <tr> <td>Operation Temperature Range</td> <td colspan="2">-30° C to + 70° C</td> </tr> <tr> <td>Installation Temperature Range</td> <td colspan="2">-30° C to + 70° C</td> </tr> <tr> <td>Transport and Storage Temperature Range</td> <td colspan="2">-30° C to + 70° C</td> </tr> <tr> <td rowspan="4">Mechanical</td> <td>Max. Tensile Load</td> <td colspan="2">4.5 kN</td> </tr> <tr> <td>Crush Resistance</td> <td colspan="2">3000 N/10 Cm</td> </tr> <tr> <td>Minimal Installation Bending Radius</td> <td colspan="2">20 X OD</td> </tr> <tr> <td>Minimal Operation Bending Radius</td> <td colspan="2">10 X OD</td> </tr> </tbody> </table>			24 G652D	48 G652D	Physical	Fibre Count			No. of Fibre Per Tube	4	8	Cable OD	11.5 mm		Cross Sectional Area	100 mm <sup>2</sup>		Cable Weight	Approx. 130 kg/km		Operation Temperature Range	-30° C to + 70° C		Installation Temperature Range	-30° C to + 70° C		Transport and Storage Temperature Range	-30° C to + 70° C		Mechanical	Max. Tensile Load	4.5 kN		Crush Resistance	3000 N/10 Cm		Minimal Installation Bending Radius	20 X OD		Minimal Operation Bending Radius	10 X OD		<p>There are some contradiction - As per Clause-"Approach Cable Structure", 4 loose tube &amp; 2 fillers are shown in the diagram, i.e. 12 fibers in a loose tube, while in "Technical Characteristics" matrix for 48F is mentioned with 8 fibers in a loose tube.</p> <p>As, OPGW shall be with 12 fiber in a loose tube, hence for the fiber grouping &amp; splicing point of view, we recommends for 12 fiber in a loose tube.</p> <p>We request you to please confirm fiber per loose tube.</p>	Please refer Amendment No-II for Appendix-I of Technical Specification.
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4.	Volume-II, TS Part 1 of 2	General Query	96F Approach Cable specification is missing in the Tender document. We request you to provide the same.	Please refer Amendment No-II for Appendix-I of Technical Specification.																																										

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			OR Please confirm to proceed with 12 fibers in a tube, 8 tubes & mechanical parameter as mentioned in this clause i.e "Dimension & Properties" (Cable diameter & weight shall be offered accordingly).	
5.	Volume-II-TS		1.Kinldy specify the voltage level for the given tender BoQ.  2.Kinldy specify the Wind Zone for the given tender BoQ.	1) Please refer to Appendix-A of the Volume-II Technical Specification (TS), where the voltage levels and line details are clearly specified.  2) The line details have already been provided in the Technical Specification (TS) under Appendix-A. The same may be considered as tentative parameters for Wind Zone. Line-wise Wind Zone details shall be furnished during the detailed engineering stage.
6.	Volume-II-TS		Kindly provide Sag-Tension criteria for OPGW cable for 132 kV, 220 kV, 400 kV and 765 kV lines, including span, wind pressure, sag, and tension parameters.	Please refer to Appendix-A of the Volume-II Technical Specification (TS), where the voltage levels and line details are clearly specified.  Further, the span, wind pressure, sag, and tension parameters shall be shared/finalized during the detailed engineering stage.