

## FORMAT B.1

## Format for Technical Pre-Bid Queries

Tender No TPSODL/OT/2024-25/002

Package Name Rate Contract for Supply of Collapsible FRP Ladder at PAN TPSODL

Bidder : M/s -----

Note : The said format to be used only for Technical Pre-Bid Query. Any Commercial Query has to be strictly in Format B2 Format for Commercial Pre-Bid Query and sent separately

Format to be used for query regarding Technical Pre-Qualification Requirement, Safety Pre-Qualification Requirement, Technical Set of Document

Pre-Bid Query has to be sent in editable Excel file format only

Pre-Bid Query has to be sent through e-mail in TPSODL E-Tender System

Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
1	2	3	4	5
1	Clause no. 2, Page number 26	<p>APPLICABLE STANDARDS</p> <p>The equipment covered by this specification shall unless otherwise stated, be designed, manufactured and tested in accordance with the latest editions of the following Indian, International standards and shall conform to the regulations of the local authorities:</p> <p>Compliance to Covered</p> <p>IS-12709: Glass fiber reinforced plastics (grp) pipes, joints and fittings for use for potable water supply</p> <p>IEC 60060: High-voltage test techniques - Part 1: General definitions and test requirements</p> <p>IEC60855: Live working - Insulating foam-filled tubes and solid rods - Part 1: Tubes and rods of a circular cross-section</p> <p>IS : 10192-1982 : Synthetic resin bonded glass fiber (SRBGF) sheets for electrical purposes</p> <p>IS: 1998 : Methods of test for thermosetting synthetic resin bonded laminated sheets</p> <p>IS: 13410 Glass reinforced polyester sheet molding compounds (SMC).</p>	<p>The standards which are mentioned in the bid documents are type tests for FRP sections, Kindly suggest applicable IS,EN,ANSI standard for the Ladder safety.</p>	<p><b>Mentioned all standards are applicable for FRP material. You may also adopt following standards for FRP telescopic ladder.</b></p> <p><b>EN-131-6, ASTM D635, ANSI14.5</b></p>
2	Clause no. 3, Page number 26	<p>Wind velocity: 300 km/hr, 200 km/hr and 160 km/hr. environmentally, some of the regions, where the work will take place includes coastal areas, subject to high relative humidity, which can give rise to condensation. Onshore winds will frequently be salt laden. On occasions, the combination of salt and condensation may create pollution conditions for outdoor insulators. Some places are in heavily industrial polluted areas. Therefore, Outdoor material and equipment shall be designed and protected for use in exposed, heavily polluted, salty, corrosive and humid coastal atmosphere</p> <p>The design of equipment and accessories shall be suitable to withstand seismic forces corresponding to an acceleration of 0.1 g</p>	<p>Can you please suggest the applicable standard for the wind velocity?</p>	<p>Mentioned Climatic condition is meant for TPSODL jurisdiction area. Kindly refer to relevant Indian standard for applicable wind velocity calculation for FRP telescopic ladder</p>
3	Clause no. 4, Page number 27	<p>4. Step distance : 13 inches, 5. Diameter of Top FRP, 6. Distance between FRP pole, 16. Capacity/Load test</p>	<p>The specifications are not matching with any of the IS, EN, ANSI ladder standards as the only applicable standard of telescopic ladder is EN131, which has declared that telescopic ladders are not fit for use. Link: <a href="https://ladderassociation.org.uk/wp-content/uploads/2023/04/Phase-2-Step-In-Telescopic-Ladder-Surveillance-Survey-Report-Version-1-Revision-0-April-2023.pdf">https://ladderassociation.org.uk/wp-content/uploads/2023/04/Phase-2-Step-In-Telescopic-Ladder-Surveillance-Survey-Report-Version-1-Revision-0-April-2023.pdf</a></p>	<p>Attached pdf through link is not acceptable as it is not withdrawn by the EN itself. Specification to be complied.</p> <p>Mentioned dimension is already tested by user. So specification to be complied for the dimension.</p> <p>Details of ladder design can be finalized at the time of evaluation by sample verification provided by your end.</p>
4	Clause no. 5a, type test, Page number 27, 28	<p>The following tests shall constitute the type tests and shall be carried out as per relevant IS</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Visual Examination</li> <li><input type="checkbox"/> Dimensional Check</li> <li><input type="checkbox"/> Impact Strength</li> <li><input type="checkbox"/> Tensile Strength</li> <li><input type="checkbox"/> Comparative Tracking</li> <li><input type="checkbox"/> Specific Gravity</li> <li><input type="checkbox"/> Water absorption</li> <li><input type="checkbox"/> Compressive Strength</li> <li><input type="checkbox"/> Insulation Resistance</li> <li><input type="checkbox"/> Flammability</li> <li><input type="checkbox"/> Glass content, percent by mass.</li> <li><input type="checkbox"/> Dielectric Strength</li> </ul>	<p>Can you please suggest the applicable IS Standards?</p>	<p>Followings are the type test conducted as following standards</p> <ol style="list-style-type: none"> <li>1. Visual dimension test: As per TPSODL specification</li> <li>2. tensile test: ASTM D-638</li> <li>3. Water gravity test: IS 12709</li> <li>4. insulation resistance test: IS 1998</li> <li>5. Flammability test: IS 6746, ASTM D635</li> <li>6. Glass content test: IS 10661</li> <li>7. Di-electric test: ANSI A14.5</li> <li>8. Load test: ANSI 14.5</li> </ol>
5	Clause no. 5b, type test, Page number 28	<p>Routine &amp; acceptance tests:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Visual Inspection</li> <li><input type="checkbox"/> Dimensional check</li> <li><input type="checkbox"/> Load test</li> <li><input type="checkbox"/> Specific Gravity test</li> <li><input type="checkbox"/> Water absorption test</li> <li><input type="checkbox"/> Cross Breaking strength</li> <li><input type="checkbox"/> Compressive Strength</li> <li><input type="checkbox"/> Insulation Resistance</li> <li><input type="checkbox"/> Flammability</li> </ul>	<p>Are these tests shall be conducted on each and every ladder? Or are they routine type test or lot test?</p>	<p>Routine test / acceptance test shall be conducted on a sample over a lot. That can be decided at the time of inspection call raise.</p>
6	Clause no. 8, Page 30	<p>Bidder shall have adequate in-house testing facilities for carrying out all routine tests &amp; acceptance tests as per relevant International / Indian standards.</p>	<p>Can you please specify the ladder testing facility, which equipments shall be there for all tests?</p>	<p>Routine/acceptance test are listed. Accordingly manufacturer should arrange the equipment required as per the test.</p>