

**FORMAT B.1****Format for Technical Pre-Bid Queries****Tender No** TPSODL/OT/ 2024-25/002**Package Name** Rate Contract for Telescopic FRP Ladder**Bidder :****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 seperately

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

**Pre-Bid Query has to be sent in editable Excel file fomatl 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	Page No 2 / S. No. 5	Dia. Of Top FRP - FRP Sections Top to Bottom 47/53/60/65/71/77/83 mm	You have specified only 7 No. Of Sections. This ladder will have 12-13 Sections. Kindly specify the other sizes also.	specification to be complied
2	Page No 1 / Point No. 2	Applicable Standard		
3		IS-12709: Glass fiber reinforced plastics (grp) pipes, joints and fittings for use for potable water supply	Not Applicable : This standard is used for Drinking Water Pressure Pipes used for Transportation of Drinking Water	"Mentioned all standards are applicable for FRP material. You may also adopt following standards for FRP telescopic ladder. EN-131-6, ASTM D635, ANSI14.5"
		IEC60855: Live working - Insulating foam-filled tubes and solid rods - Part 1: Tubes and rods of a circular cross-section	Not Applicable : As this standard is used for testing of Foam Filled Tubes. Ladder does Not have any foam filled tube.	
		IS : 10192–1982 : Synthetic resin bonded glass fiber (SRBGF) sheets for electrical purposes	Not Applicable : This standard is used to test FRP Sheets. Ladder is manufactured with FRP Sections by Pultrusion Process.	
		IS: 1998 : Methods of test for thermosetting synthetic resin bonded laminated sheets	Not Applicable : As Ladder sections are not manufactured by Laminated sheet.	
		IS: 13410 Glass reinforced polyester sheet molding compounds (SMC).	Not Applicable : As SMC Process is not used to manufactured sections used in Ladder.	
4	Page NO. 3 / Point No. 5 (a)	<b>Type Test</b> Visual Examination Dimensional Check Impact Strength Tensile Strength Comparative Tracking Specific Gravity Water absorption Compressive Strength Insulation Resistance Flammability Glass content, percent by mass. Dielectric Strength	Kindly specify Standards	Followings are the type test conducted as following standards 1. Visual dimension test: As per TPSODL specification 2. tensile test: ASTM D-638 3. Water gravity test: IS 12709 4. insulation resistance test: IS 1998 5. Flammability test: IS 6746, ASTM D635 6. Glass content test: IS 10661 7. Di-electric test: ANSI A14.5 8. Load test: ANSI 14.5
5	Page No. 3 / Point No. 5 (b)	Routine & acceptance tests: (1) Specific Gravity (2) Water Absorption Test (3) Cross Breaking Strength (4) Other Tests Mentioned	(1, 2 & 3) These Test can not be conducted in House. Needs machinery which are available in Testing Labs Only. Any SME Manufacturer can not afford these very costly machineries. (4) Kindly specify Standard.	specification to be complied
6	Page No 5 / Point No. 8	Minimum Testing Facility (1) Comparative Tracking (2) Specific Gravity (3) Water Absorption	These Test can not be conducted in House. Needs testing machinery which are available in Testing Labs Only. Any SME Manufacturer can not afford these very costly machineries.	specification to be complied