

**DATA SHEET FOR GRP LIGHTING POLES**

1. GENERAL	
▪ Name of Vendor	Satyam Composites Pvt. Ltd.
▪ Address	Survey No.38, Por – Ramangamdi Road, Village: Ramangamdi, Dist: Vadodara – 391 243, Gujarat, India.
2. STANDARDS APPLICABLE	
▪ ANSI C 136.20 1990	Glass Reinforced Plastics (GRP) Lighting Pole.
▪ IS 875(PART 3)-1987	Code Of Practice For Design Loads For Building & Structures – WIND LOAD.
▪ IS 6746	Polyester Resin System.
▪ ASTM D 149	Dielectric Strength
▪ ASTM D 256	Impact Strength
▪ ASTM D 790	Flexural Strength
▪ ASTM D 638	Tensile Strength
▪ ASTM D 2584	Glass Content
▪ ASTM D 695	Compressive Strength
▪ ASTM D 177	Thermal Conductivity
▪ ASTM D 696	Co-efficient of Linear expansion
▪ ASTM D 635	Fire Test
3. TECHNICAL DETAILS FOR FRP/GRP POLES	
▪ Pole Process	Manufactured by Centrifugal Casting Process
▪ Resin System	ISO resin system.
▪ Poles Sizes	2 to 12 Mtrs
▪ Pole Thickness	6 mm to 10 mm as per pole height
▪ Tolerance in Length	+/- 25mm.
▪ Tolerance in Thickness	+/-0.5mm.
▪ Glass Content ASTM D2584-11	45-55%
▪ Specific Gravity	1.5 TO 1.95 gm/cm ³
▪ Tensile Strength ASTM D 638	250±50 MPA
▪ Flexural Strength ASTM D 790	250±50 MPA
▪ Compressive Strength ASTM D 695	250±50 MPA
▪ Impact Strength ASTM D 256-10	≥180 KJ/M ²
▪ Water Absorption ASTM D 570	≤ 0.5%
▪ Surface Colour Shade	Polyurethane Paint of Shade- As per Requirement
▪ Accessories(Optional)	FRP single Arm, FRP Double Arm, FRP Internal Junction Box, FRP External Junction Box, MS Base Bracket, J Arm with FRP coating
▪ Hardware	SS Hardware
▪ Wind Load	Our Poles are tested and will withstand high wind load up to 180KM/HR with maximum deflection of 10%.
4. TECHNICAL DETAILS – FOUNDATION (BASE BRACKETS)	
▪ Specification:	MS Base Bracket (12 mm Thk.) with suitable size with four holes suitable for anchor fasteners.

FOR SATYAM COMPOSITES PVT. LTD.

AUTHORISED SIGNATORY

