

# **TECHNICAL SPECIFICATION FOR THE 11 KV POST TYPE INSULATORS**

## **SCOPE:**

The specification covers design, manufacture, testing at manufacturer's works before despatch, supply and delivery of a) 11 kV Post Type Insulators and given in the "Schedule of Requirements" attached.

## **STANDARDS:**

The Post Insulators shall conform to IS 2544 -1973 and IS – 5350 part– III – 1971 (Latest issue). The tenderers shall go through the above IS thoroughly before making his offer.

## **TYPE AND DIMENSIONS:**

The dimensions and construction of the 11 KV Post Insulators shall be as per designation PA75 of table 5 of IS 5350 Part – III/1971 and comparing to IS 2544 / 1973 (latest issue)

## **TESTS AND TEST CERTIFICATES:**

The tests shall be carried out as per the IS before dispatch and the test certificates shall be furnished for approval. Copies of **type test certificates** showing the results of type tests conducted on identical materials as per the IS (for each type) with **dimensional drawings** shall invariably accompany the tender.

### **TESTS TO BE CONDUCTED:**

- a. H.V. Power Frequency withstand tests (dry) & (Wet).
- b. H.V. Power Frequency flashover tests (dry) & (wet).
- c. H.V. Impulse withstand test.
- d. H.V. 50% impulse Flashover test.
- e. H.V. Visible discharge.
- f. Visual Examination and verification of Dimensions.
- g. Temperature Cycle test.
- h. Porosity.
- i. Galvanizing.
- j. Mechanical withstand tests for
  - i) Bending Load.
  - ii) Tensile Load
  - iii) Torsion Load.
  - iv) Compression Load.

## **GUARANTEED TECHNICAL PARTICULARS:**

The technical particulars as specified in the IS shall be guaranteed and a statement of guaranteed particulars shall be furnished as per Annexure along with the tenderer.

**PACKING:** This shall be done in wooden crates suitable for rough handling.

## **SAMPLES:**

Two samples of 11 KV Post type Insulators shall be submitted along with the tender

**Embossing:-** The samples shall be engraved with your trade mark.

**ANNEXURE**  
**GUARANTEED TECHNICAL PARTICULARS OF 11 KV POST TYPE INSULATORS**

Sl. No.	Characteristic	
1	Maker's Name and Company.	
2	Type of insulators	
3	Highest system voltage.	
4	Size of insulators	
	i) Diameter	
	ii) Height.	
5	PCD of top and bottom metal fittings.	
6	Total creepage distance.	
7	Dry withstand voltage.	
8	Wet withstand voltage	
9	Impulse withstand voltage.	
10	Visible discharge voltage.	
11	Puncture voltage	
12	Cantilever failing load (upright)	
13	Tensile failing load.	
14	Torsional failing load.	
15	Compression failing load.	
16	Weight of unit (approx)	
17	Standard testing specification IS-2544/1973.	
18	Reference Drawing. _____	