

## TECHNICAL SPECIFICATION FOR THE LT GI PINS

### 1. SCOPE:

The specification covers design, manufacture, testing at manufacturer's works before dispatch, supply and delivery of G.I. Pins for L.T. Pin Insulators as per Fig. 2 of IS-7935/1975 (the latest issue) suitable for LT Pin Insulators which conform to type (i) Fig.1) of IS-1445 1977 (the latest issue)

### 2. Standards:-

**LT GI Pins:** The profile of the threads shall be such that the pins suit the insulators described in clause (1) The pins shall be a single piece obtained preferably by the process of forging. They shall not be made by joining, welding, shrink fitting or any other process from more than one piece of material. The pins shall be manufactured by the process of double forging. They shall be good finish, free from flaws or other defect. The finish of the collar shall be such that sharp angle between the collar and the shank is avoided. All the pins, nuts and washers (except those of stainless steel) shall be hot dip galvanized. The threads of nuts shall be cut after galvanizing and shall be well oiled or greased. The thickness of the nuts shall be as per IS-1363-1976. The 3 mm thick spring washer, shall have tolerance as per IS-3063, 1972.

The materials shall be for use in moderately hot and humid tropical climate, conducive to rust and fungus growth.

### 3. Design and type:-

#### **LT GI Pins:**

RATING	Stalk length	Shank length	Reference to the relative standards
415 /240V	135 mm	125 mm	Fig. 2 of ISS 7935/1975
The minimum failing load as per amendment No.2 Feb 1983 of ISS 7935 should be 2 KN			

### 4. TECHNICAL REQUIREMENTS:

The pins shall be single piece obtained preferably by the process of forging. They shall not be made by Joining, Welding, shrink-fitting or any other pieces from more than one piece of material. They shall be of good finish, free from flaws and other defects. The finish of the collar shall be such that a sharp angle between the collar and the shank is avoided. All ferrous pins, nuts and washers, except those made of stainless steel, shall be hot dip galvanized. The threads of the nuts shall be cut after galvanizing and tapped holes shall be well oiled or greased and the profile of the threads shall be such that the pins suit the insulator. The nuts and spring washers shall be as per Indian standards.

### 5. 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 the Type Tests certificates of identical materials for each type with dimensional drawings shall accompany the tender.

**LT GI Pins:** The pins shall comply with the tests as detailed in clause (4) of IS-7935-1975. The pins shall have a minimum failing load of 2 KN. The dimensions of the pins shall be as shown in the sketch. The hardware shall successfully pass the galvanization test prescribed in IS-2633-1972 (the latest issue).

The tests shall be carried out before dispatch and the test certificates should be furnished for approval. A copy of the type test certificates shall accompany the tender.

**6. Packing:** For packing of fittings double gunny bags shall be employed. The gross weight of the packing shall not normally exceed 50 kgs. All nuts shall be hand tightened over the bolts and screwed up to the farthest point

**7. Guaranteed Technical Particulars:** The technical particulars as specified in the IS shall be guaranteed and a statement of guaranteed particulars shall be furnished along with the tender (enclosed Annexure)

#### **8) SAMPLES:-**

Two samples of **LT.G.I. Pins** shall be submitted along with the tender.

**9) Embossing:-** The material shall be engraved with your trade mark.

**10.** All bids submitted will also include the following information:

- i. Copies of original documents defining the constitution or legal status, place of registration and principle place of business of the company or firm or partnership, etc.,
- ii. The bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity and experience (both technical and commercial) for the manufacture and supply of the required equipment within the specified time of completion after meeting all their current commitments.
- iii. The bidder should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the purchaser or his representative for inspection..
- iv. Reports on financial standing of the Bidder such as profit and loss statement, balance sheets and auditor's report for the past three years, bankers certificates etc.

**GUARANTEED TECHNICAL PARTICULARS OF L.T. G.I. PINS**

1. Name of the firm :
2. Confirm to (Standard) : IS 7935 – 1975
3. Type of Steel head :  
(Large or small)
4. Minimum failing load :
5. Length of threaded portion in the shank:
6. Whether galvanization and Zinc of grade :  
Zn 98 confirming to the relevant standards
7. Shank length :
8. Weight of the Pin :
9. Tolerance in dimension:
10. Other particulars if any: