

TECHNICAL SPECIFICATION FOR THE LT METAL PARTS

1. SCOPE:

The specification covers design, manufacture, testing at manufacturer's works before despatch, supply and delivery of LT Metal Parts as per the "Schedule of Requirements" attached.

2. Standards: The straps and bolts shall be of mild steel. The hardware shall conform in all respects, to the Indian Standard IS –7935(the latest issue). The tenderer should go through the above IS carefully before making his offer. The materials shall be for use in moderately hot and humid tropical climate, conducive to rust and fungus growth.

All parts shall be hot dip galvanized. Small fittings like spring washers, nuts, etc., may be electro galvanized. Thread of nuts and tapped holes, when cut after galvanizing, shall be well oiled or greased. For galvanizing, Zinc conforming to Grade Zn 98 of IS:209(latest issue) shall be used as per IS:2629(latest issue). The nuts shall be made of material conforming to class 4.8 of IS:1367(latest issue) with regard to its mechanical properties.

3. General Requirements:

The insulator fittings shall be of good finish free from flaws and other defects. The edges on the outside of fittings such as the holes, shall be rounded.

TYPE AND DIMENSION:

The hardware shall be of type (1) as per Fig.(3) of IS-7935 (the latest issue) suitable for shackle insulators type (1) as per fig.(3) of IS 1445(the latest issue). The thickness of spring washers and nuts to be used with hardware of LT shackle insulators shall be as per IS – 3063 and IS-1363 (the latest issues respectively).

TESTS AND TEST CERTIFICATES:

The tests shall be carried out as per the relevant IS before dispatch and the Test Certificates shall be furnished for approval. Type Test Certificates showing the results of Type Tests on identical materials as per relevant I.S.S. shall be invariably accompany the tender.

4. Testing:-

a)Type Tests:- The following type test certificates showing the results of type tests done as per clause 5.3.1. of IS 2486 PartI-1971 (the latest issue) with the dimensional drawings shall invariably accompany the tender.

Tests to be conducted

1. Slip strength test
2. Mechanical tests
3. Verification of dimensions
4. Galvanizing test
5. Visual examination test.

b) The following tests shall be conducted on the fittings ordered in accordance with IS and Test Certificates shall be submitted in duplicate. The test samples shall be selected by the "EASTERN POWER DISTRIBUTION COMPANY OF A.P. LIMITED". Inspecting Officers in the event of inspection is done at the manufacturer's works.

b-i) Acceptance tests:-

As per Clause 5.3.2 of IS 2486 Part I-1971 (the latest issue) sampling should follow the procedure laid down in Appendix-A of IS 2486 – Part-I-1971 (the latest issue).

b-ii) Routine tests:-

As per clause 5.3.3 of IS 2486-Part I-1971 (the latest issue) on each and every fittings.

5) 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.

6) Guaranteed Technical particulars:- The technical particulars as specified in the IS shall be guaranteed and statements of guaranteed particulars shall be furnished along with tender in the form given in Annexure.

7) SAMPLES:-

Two samples of **LT Metal Parts for Shackle Insulators** shall be submitted along with the tender.

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

9. 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.