

## **TECHNICAL SPECIFICATION FOR THE LT DISTRIBUTION BOXES SINGLE FEEDER (IRON)**

**1. SCOPE:** The specification provides for the manufacture testing before dispatch, supply and delivery of LT Distribution Boxes Single feeder with Fuse base and throw out switch (knife type) suitable for 16,25,40 KVA Distribution Transformers.

**2. STANDARDS:-**

The LT Single feeder Distribution Box unit shall conform in all respect to the IS:2062 with latest amendments from time to time.

**3. CLIMATE CONDITIONS:** The climatic conditions under which the equipment shall operate satisfactorily are as indicated in Clause 23.1 of General and Financial terms and conditions for supply of materials.

**4. CONSTRUCTION:**

LT Distribution Boxes Single feeder with Fuse base and throw out switch (knife type) suitable for 16,25,40 KVA Distribution Transformers of the following Size

Length 450 mm. breadth 350 mm. height 550 mm. Frame fabricated with CR sheet of size 1.6 mm with Single door with weld mesh of size 10 gauge are to be provided for the box front with 3 nos. hinges The hinges shall be fitted / welded with the Distribution Box body base and covers rigidly, thereby making the Distribution Box doors are pilfer resistant. 4 nos. 32 mm dia of holes on either side for entry / take of arrangement for 1 no. incoming & 1 no. outgoing feeders. All the holes are to be covered with suitable PVC bushes. The Distribution Box door shall be provided with proper locking facility. 1 No. wooden plank of size 225 x 450 mm and of the thickness 25 mm made out of best seasoned wood without any joint shall be fitted inside the box with G.I. Bolts & Nuts etc. The wooden plank shall be fully covered with asbestos sheet of 4 mm thick and they are to be fixed on 2 Nos. M.S. Angle bars of size 25x25x3 mm neatly welded to the frame inside the box to hold the board. 3 nos. 100A, 500V knife type porcelain fuse units of best quality conforming to relevant IS specifications with isolating mechanism of porcelain size 210 mm length & 70 mm width with extension strip of 25 mm X 3 mm copper along with 2 nos. fixing bolts (3/8"x 1 1/2" & nuts with washers) shall be fixed on the asbestos sheet. All copper parts made out of 25 x 3 mm copper strip with tin coated and all screws and bolts and nuts are GI. Aluminum flat of size of 25 x 4 mm shall be fixed for neutral connection. 2 nos. MS Angle of size 50 x 50 x 6 mm shall be welded at the back of the box with suitable holes.

All iron parts of the box should be painted with two coats of red oxide paint of best quality and one coat smoke grey paint of reputed make like M/s. Jonson & Nicklson, Berger Paints, Nerolac etc. to function satisfactorily even on sea side having heavy pollution. 8 Nos. 70 sq.mm size aluminum alloy crimping lugs shall be supplied with each box. 1 No insulated handle to be provided with each box for operating Knife type mechanism.

**5. GUARANTEED TECHNICAL PARTICULARS:** The guaranteed technical particulars along with relevant IS Specification of the materials under reference shall be given by the bidder.

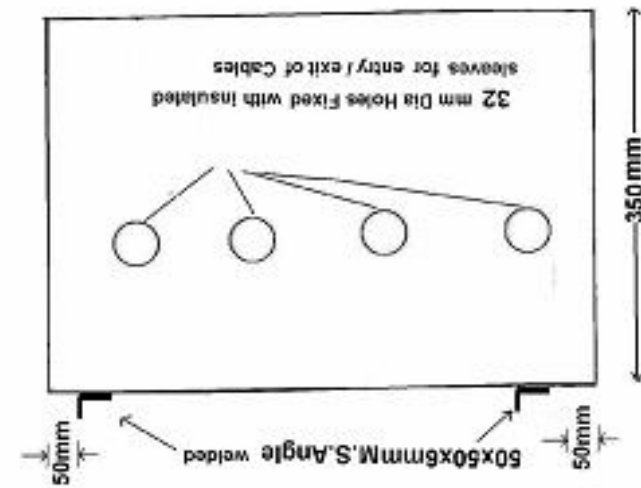
**6. DRAWINGS :**

Before manufacture of the material, drawings shall be got approved by this office. The Tenderer also required to produce clearly visible two sets of drawings along with the tender.

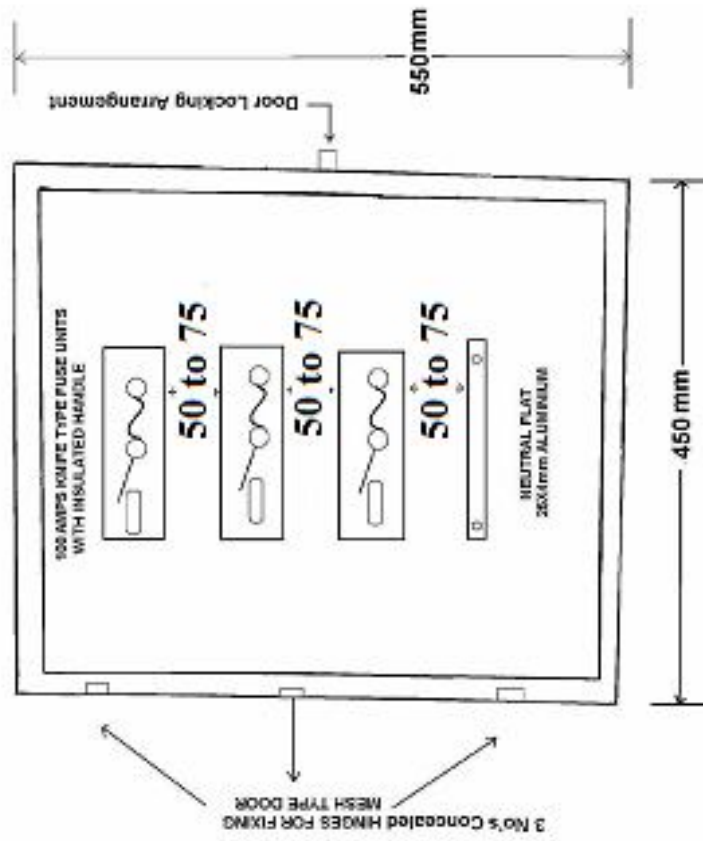
**7. SAMPLES:**

One number non returnable distribution box as per specification has to supply along with the tender.

L.T.DISTRIBUTION BOX MADE WITH M.S.SHEET  
FOR 16/25/40 KVA 3Φ DTR,



SIDE VIEW



FRONT VIEW

<b>A.P.EPDCL</b>
For Bid Purpose Only
LT Distribution Box with M.S.Sheet for 16/25/40 KVA DTR,