

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

**1. SCOPE:** The specification provides for the manufacture testing before dispatch, supply and delivery of LT Double Feeder Distribution Boxes with Fuse base and throw out switch (knife type).

**2. STANDARDS:-**

The LT Double 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 Double Feeder Distribution Boxes of the following size length 2' 10" breadth 1' - 2" height 2'. Frame fabricated with M.S. Angle 25x25x3mm and covered with CR sheet of size 1.6mm on top and back duly welded inverted "V" top shall be provided for the box. Bottom and two sides shall be covered by welded mesh of size 10 gauge with provision of 4 Nos. 1 1/2" dia holes on a sheet of appropriate size for cable entry at the bottom and 4 Nos. 1 1/2" dia holes on either side for take off arrangement for 2 Nos. out going feeders. All the holes are to be covered with suitable PVC bushes. Twin doors with weld mesh of size 10 gauge are to be provided for the box front with 6 nos. (3 nos. for each door) 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. The Distribution Box doors shall be closed by "U" clamp for folding and locking of the both doors. The "U" clamp shall have 4 mm dia meter holes through which it is possible to seal the box with MS bolt of 4 mm dia meter of suitable length with nut / locking facility. Two Nos. wooden planks of size 1'-8"x 9" and 1" thickness made out of best seasoned wood without any joint shall be fitted inside the box with G.I. Bolts & Nuts etc. The wooden planks shall be fully covered with asbestos sheet of 4mm thick and they are to be fixed on 4 Nos.

M.S. Angle bars of size 25x25x3 mm (i.e., 2 Nos. M.S. Angle bars for each Board) neatly welded to the frame inside the box to hold the boards. 6 Nos 300A 500V porcelain fuse units of best quality conforming to relevant IS specifications with isolating mechanism of porcelain size 215 mm length & 70 mm width with extension strip of 32 mm X 5 mm copper along with 2 nos. fixing bolts (3/8" X 2 "& nuts with washers). All copper parts made out of 32 x 5 mm copper strip with tin coated and all screws and bolts and nuts are GI with extension strip shall be fixed on the wooden planks arranged in two circuits connected with aluminum bus bars i.e 3Ø shall be with aluminum flat of size 1"x1/4", 2 Nos. M.S. Angle pieces in full length (i.e., 2'x10") of size 50x50x6mm shall be welded at the back of the box with suitable holes to M.S. Angles, to facilitate fixing of the whole box to the D.P. Structure. 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 & Nickson, Berger paints, Nerolac etc. to function satisfactorily even on sea side having heavy pollution. 12 Nos. 120 sq.mm size aluminum alloy crimping lugs shall be supplied with each box. 1 No insulated handle to be provided with each box.

**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.