



# PASCHIM GUJARAT VIJ COMPANY LIMITED

REGD. & CORPORATE OFFICE:- OFF NANA MAVVA MAIN ROAD, LAXMINAGAR, RAJKOT-360004

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## TENDER NOTICE No: PGVCL/RJT/3 Phase MMM /369

### SPECIFICATIONS OF METAL METER BOX FOR THREE PHASE CT OPERATED METERS.

#### 01) DESIGN:

The Metal Meter Boxes are required to house Three Phase CT operated Energy Meters. The M.M. Box shall be made from fresh 1.2mm thick Mild **Steel Sheet confirming to relevant IS** and treated to resist corrosion and provided with Godrej type locking arrangement.

The size of Metal Meter Box is 650mm (H) X 350mm (W) 200mm (D). The glass window of box shall be designed properly and provided with 4mm thick toughened glass. Two nos. of electro Galvanized M.S. Bolts are to be welded for earthing purpose. Cable entry and exit holes suitable for 4 core PVC cable shall be provided. The box shall be designed as per the drawing attached herewith detailed requirements as below.

#### 02) REQUIREMENTS:-

- a) The box shall be water proof and vermin proof Box shall be so designed that there is no gap between two joints. Gap/holes if any should be fiddled up by metallic laps properly.
- b) The box shall be tamper proof i.e. all joints, pivot, pins, hinges etc. shall be of such type that this box can not be tampered. Joints should be properly over lapped by minimum 10mm and properly welded.
- c) Glass window of 100mm X 150mm shall be designed properly and fitted with 4mm thick toughened glass of size 110mm X 160mm. This glass is to be fitted with wrap around good quality rubber ring having depth of 3 mm in one piece without joint. The glass fixing arrangement shall be tamper proof with frame on all four sides made from 1.2mm thick M.S Sheet on inner side of door and properly tightened with bolts and nuts on all four sides so that glass should not remain loose in the frame.
- d) The door of box shall open from right to left by approx 90° and shall be provided with male and female type hinges as per the drawing. The door is to be bent 90° on all four sides by 10mm so as to overlap the box by min.10mm.
- e) The box shall be designed from a single folded sheet to minimize welded joints. For fabricating the box maximum 4 nos .of piece should be used i.e. one piece for top, back and bottom, second and third pieces for sides of box and forth for door.
- f) Rubber lining of size 12 mm (W) X 3 mm thick shall be fixed with full solutions on all three sides of box instead of all around the door frame so as to make box weather proof.
- g) For providing ventilation, box shall have 7 nos. of louvers as shown in the drawing. These louvers shall be covered with perforated 0.8 mm thick M.S. sheet framed from inside on all four sides.



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- h) The box shall be provided with Godrej type locking arrangement as shown in drawing. The locking handle and locking "L" shape patti shall be designed suitably from 3 mm thick M.S. Flat having 20mm width. In closed locked position the holes should match each other for providing Brass sealing bolt of 6mm diameter having 20 mm length. M.S. locking rod of 6 mm diameter with protrudes of minimum 10 mm at top and bottom should be provided to prevent opening of the door in the locked condition. A locking patti of size 20 mm; width and 1.2 mm thick of suitable length is to be provided at center for locking purpose, so that box gets locked from top, bottom and center in locked condition. This locking arrangement shall be provided with cover of suitable size.
- i) 12.5mm X 15 mm size slotted angles made from 1.2 mm; thick M.S. sheet should be welded height wise; i.e. 630 mm leaving 10 mm distance from top and bottom sheet and 15 mm distance from back; side sheet to facilitate easy mounting and welding. 3 nos. of slotted channels of 15 mm (W); X 5 mm (Depth) X 1.2 mm (Thick) should be provided for fixing of meter. The top; channels shall have one nut of 3/16" size welded at center with 1" bolt. The size of slots shall be 12mm X 6mm. The distance between two slots should not be more than 8 to 9mm.
- j) Cable entry and exit holes of 50 mm diameter shall be provided as per drawing with knockout type rubber grommets suitable for 4 core PVC cable for protection of cable and sealing of holes of box.

**03) PROVISION OF HOLES ON THE BACK OF MMB:-**

04 nos of holes should be provided on the back of MMB for fixing on the wall with 60 mm x 6 mm heavy duty "JUSTI" nail. Also 02 mm thick and 30 mm diameter MS Washer should be welded on each hole inside the box for adequate fixing.

**04) EARTHING:-**

2 nos. electro galvanized M.S .bolt should be welded for earthing the box on both sides and contact area of side of box must be properly treated for good contact. The earthing bolt shall be of size 0.5" die X 1.5" long with 2 nos.of nuts and 2 nos.of washers (2 mm thick). Earthing sign embossing must be provided near the earthing bolt.

**05) Identification shall be embossed on right hand side "of the side of box" PGVCL/ Manufacture short name A/T No. with Year.**

**06) INTER CHANGEABILITY:-**

All similar materials and removable parts shall be uniform and inter changeable with each other.

**07) PAINTING:-**

All steel work of box shall be given a primary coat of zinc chromate primer as per IS:2074/1979 and second coat of grey paint and third coat of air drying sprayed enamel grey paint before dispatch. The anti corrosive primer and enamel grey paint shall confirm to relevant ISS.



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- 08) FULL THREADED BOLTS AND NUTS (TO BE PROVIDED IN A POLYTHENE BAG):-**
- i) Brass sealing bolt of 6mm diameter X 20mm long having 3mm diameter. Hole at the end with nut for sealing purpose - 1 no.
  - ii) Electro Galvanized full threaded M.S. Bolts and Nuts.
    - a) 3/16"X1" long (RH) : 3 nos.(for meter fixing).
    - b) 3/16"X3/4"long (RH):6 nos. (For fixing channels)
- 09) DESPATCH:-**  
The Metal Meter Box shall be dispatched in such a manner that no damage occurs during transport where they may be handled roughly.
- 10) TENDER SAMPLES:-**  
A tender sample as per specifications and Drawing attached with this tender will have to be submitted before opening of the tender to Deputy Engineer, Regional Store Office, Dudhasagar Road, PGVCL, Rajkot .
- 11) Locking Arrangement:-**  
For locking hook arrangement to the Box should be in such a way that hook should be welded to the angle surface from inside the frame.

**NOTE: - Tolerance in overall dimensions + 2%, No negative tolerance.**

Signature of Tenderer:		Company's Round Seal:
Date:	Place:	

