

TECHNICAL SPECIFICATION FOR THE G.I. EARTH PIPES 40 mm DIA

1. SCOPE: The specification provides for the manufacture, testing at manufacturer's works before dispatch, supply and delivery of G.I. Earth Pipes.

2. GENERAL REQUIREMENTS:

GI Earth Pipes Galvanized Iron Pipes of medium class Diameter 40 mm (inner dia) and 3.2 mm (Medium Gauge – No Minus Tolerance allowed) wall thickness Hot Dip GI Pipe (As per IS-1239, m Part-1, 1990 & REC Construction Standard-J-2) of reputed make and 1.83 meters(6 feet) in single length with one end having cone for driving point end other end provided with GI Flange of dia 125 mm and 10 mm thick. The GI Flange should be welded to the pipe on bottom side of the flange ensuring full welding and smooth finishing and tack welding at not less than 6 points around top side of flange adequate enough to hold the flange and pipe together even under stress conditions is to be done and well finished. 2 x 12 Nos Holes of size 12 mm dia are to be drilled before galvanizing on the periphery commencing 500 mm away from the flange end and along the pipe length at 150 mm in between centre to centre spacing around the pipe in perpendicular planes towards bottom end of the pipe. The flange shall contain 4 Nos. holes of size suitable to hold 16 mm. G.I. Bolts 4 Nos. with nuts of size 16 mm x 75 mm with 4 Nos. each spring washers and flat washers for each bolt shall be provided on the flange and the material should also conform to the attached drawing.

The galvanization tests are to be conducted as per IS:2633/72 & IS:6745/72 & its latest amendments.

Tolerance + /- 5 % is applicable for all dimensions except to thickness 3.2 mm of the pipe for which no minus tolerance is allowed.

4. TESTS AND TEST CERTIFICATES: All the tests shall be carried out, 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 IS shall accompany the tender.

5. MARKING: The G.I. Earth Pipes shall be legibly and indelibly marked as mentioned.

- a. Name of manufacturer
- b. EPDCL Purchase Order Number & Date
- c. "APEPDCL" marked to be provided

6. INSPECTION:

6.1 All routine tests and inspection for acceptance tests shall be made at the place of manufacturer unless otherwise specially agreed upon by the manufacturer and purchaser at the time of purchase. The manufacturer shall afford the inspector representing the purchaser all reasonable facilities without charge to satisfy him that the material is being furnished in accordance with this specification.

6.2 The purchaser has the right to have the tests carried out at suppliers cost by an independent agency wherever there is a dispute regarding the quality of supply.

7. SAMPLES: One sample of the G.I. Earth pipe along with test particulars shall accompany the tender. Tenders for which samples are not received are liable for rejection.

8. Performance security clause:

The successful bidder shall furnish 10% of contract value towards performance security which includes 5% delivery performance. In case there are delivery delays, from the available amount up to 5% shall be recovered for not adhering to the scheduled deliveries as per the purchase order obligations and the supplier should recoup the amount so deducted by DD or

BG again up to extent of 10% till warranty period is applicable as part of performance guarantee .

9. All bids submitted will also include the following information:

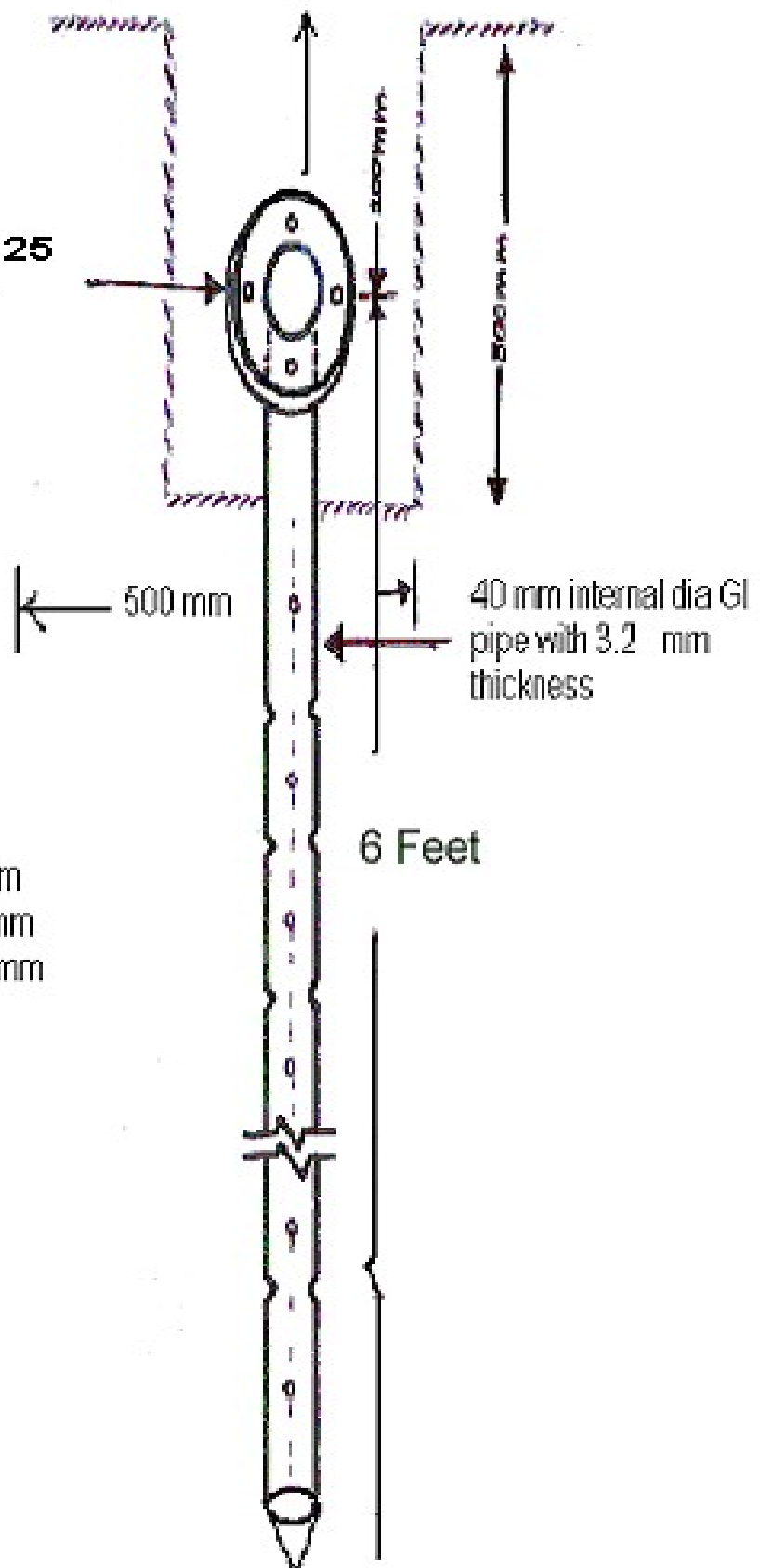
i. Copies of original documents defining the constitution or legal status, place of registration and principle place of business of the company or firm or partnership, etc.,

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.

**GI Flange Dia 125
mm with 10 mm
thickness**



Inner dia = 40 mm
Outer dia = 46.4 mm
Thickness = 3.2 mm