



**GUJARAT ENERGY TRANSMISSION
CORPORATION LTD.**

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**TECHNICAL SPECIFICATIONS
OF
G.I. EARTHING STRIP
FOR
SUB-STATION & LINE**

GETCO/E/TS – GIF022/
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General Technical Specifications of G.I. Earthing Strips.

1.1 SCOPE:

This section of the specification covers the supply of Galvanizes Iron Earthing Strips for the Switchyard of 400/220/132/66 KV Sub-Stations.

1.2 STANDARDS:

The galvanizing and Testing of materials shall confirm to the latest edition of the following standards except otherwise specified in the specification.

1.	Recommended practice for hot dip galvanized of Iron Earthing Strips	IS: 2629(1966)
2.	Methods of testing weight, thickness & uniformity of coating on hot dip galvanized articles	IS: 2633(1972)
3.	Specification for hot dip galvanized coating on fastness	IS: 5358(1969)
4.	Specification for Electroplating	IS:3203
5.	Specification for hot dip Zinc coating on structural & other allied products	IS: 4759(1968)

1.3 MATERIALS:

1.3.1. Supplier has to purchase raw materials (MS Flat) as per relevant IS at his own cost.

1.3.2. The zinc required for galvanizing shall be quality Zn-98 & shall confirm to IS: 209- 1966 and its latest amendments.

1.3.3 The Supplier shall make his own arrangement for procurement before the commissioning of work, sufficient quantity of electrolytic zinc of proper quality for galvanizing. The Supplier shall however, not link the delivery period with the supply of zinc. The GETCO is at liberty to have sample of zinc used and to test in any laboratory at his own cost and reject the particular supply, is found below standard.

1.3.4 All raw materials required for galvanizing etc. and for complete execution of work shall be stocked in adequate quantities by the Supplier to ensure that the progress of work is not hampered.

1.4 GALVANIZING:

1.4.1 Fully galvanized Iron strips shall be used in switchyard. Galvanized Iron strips shall confirm to IS: 2629 (1966). The zinc deposition should not be

less than 610 grams/meter square of the galvanized surface area of the MS Earthing strips.

1.4.2 All galvanized materials shall withstand test as per IS: 2633 (1972). The weight of zinc coating shall determined as per the method stipulated in IS: 2633(1964).

1.4.3 The standard length of Galvanized Iron Earthing Strip shall be minimum 7 Mtrs and not exceeding 10 Mtrs.

1.5 INSPECTION:

1.5.1 The Purchaser reserves the right to inspect the material at the time of tests. All tests shall then be performed in the presence of Inspecting Authority appointed by the Purchaser and the Supplier. The Bidder shall have to give intimation of place and date and time of each test to enable the later to be present to witness the test. All the test results must be recorded in presence of the inspecting authority and no materials shall be despatched, without having been passed by Purchaser's duly appointed Inspector and specific despatch instructions in writing from Chief Engineer (Project).

1.5.2 ACCEPTANCE TESTS:

- 1) Visual examination test.
- 2) Dimensional verification.
- 3) Galvanizing/Electroplating test.

1.6 QUALITY ASSURANCE PLAN:

1.6.1 The bidder shall invariably furnish following information along with his offer, failing which his offer shall be rejected.

- i) Statement giving list of raw materials, proposed to be used against this Specification, names of sub suppliers for the raw materials, list of standards according to which the raw materials are tested, list of tests normally carried out on raw materials in presence of Bidder's representative as routine and / or acceptance during processing and on finished goods, copies of test certificates.
- ii) List of processing and testing facilities available.
- iii) List of areas where stage inspections are normally carried out for quality control and details of such tests and inspections.
- iv) List of testing equipment available with the Bidder for testing. In the case if the Bidder does not possess all the Routine and Acceptance testing facilities the tender will be rejected.
- v) The Purchaser reserves the right for factory inspection to verify the facts quoted in the offer. If any of the facts are found to be misleading or incorrect the offer of that Bidder will be out rightly rejected and he may be black listed.