

# RIGID STEEL CONDUITS FOR SAFE AND DURABLE ELECTRICAL INSTALLATION

ISI MARKED HOT DIPPED  
GALVANIZE &  
BLACK STOVE ENAMELLED  
E.R.W. RIGID STEEL  
CONDUITS



Whichever is your  
project, your commitment is for



MARK CONDUCT PIPES

IS : 9537



PART - II

B.I.S.  
Certificate Marks  
Licence No. CM/L. 9256181  
Dt. 11-8-2000

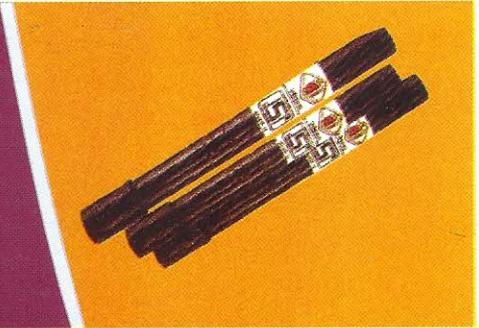


**BHARAT INDUSTRIES (REGD.)**, G.T. Road, Dinanagar (Punjab) was established in 1951. This firm has since been manufacturing steel tubes for furniture and electric purpose. In 1976, for the first time in India, we gave a direction in conduit pipe trade, by manufacturing of pipe in an automatic plant which was imported from Czechoslovakia and now manufactured as per IS-9537 Part II, 1981 with ISI marking on Hot Dipped Galvanize and Black stove enameled conduits Pipes.

**B.I. CONDUITS**, are manufactured on fully automated plant by high frequency induction welding system which ensures perfect welding and the minimum required inside Weld Beed to ease the wire pulling. Smooth wire pulling is further ensured when the pipes are chamfered at both the end. The Weld area is as strong as the pipe's steel itself, hence any kind of bending job can be carried out without chance of opening of the seam or being prone to cracks. Even though the raw material used is tested quality, in house testing is carried out in accordance to IS specification to ensure that the production of the pipe suits the application.

**B.I. CONDUITS PIPES'** Threading is done on an automatic threading machine having Lanco Chasers which maintains uniformity on the length of threading on major diameter as well as on minor diameter and the pitch of the threads. This uniformity facilities easy fitting of all conduit accessories. The threads are checked with Screw Thread Gauge which ensure the quality threading of the pipes.

**THE MEDIUM PROTECTION COATING**, of the pipe with black stove enamel is done by dipping process which ensures proper coating inside and outside of the pipes. The pipes are baked in an automatic electric oven controlled with digital thermostat system to achieve required temperature for requisite hardness of the paint and gloss finish on the conduit.



The **HEAVY PROTECTION** (optional) is done through Hot dip Galvanize process of the conduits. Hot Dip Galvanize process enables Zinc coating both inside and outside of the conduit. Zinc coating provides maximum protection against all sorts of corrosive and polluting substances. Uniformity of Zinc coating as per IS standards is tested at Factory-work Laboratory. In January 2010 BIS licence for ISI marking of Hot Dipped Galvanize conduit was acquired for all sizes upto 50mm.



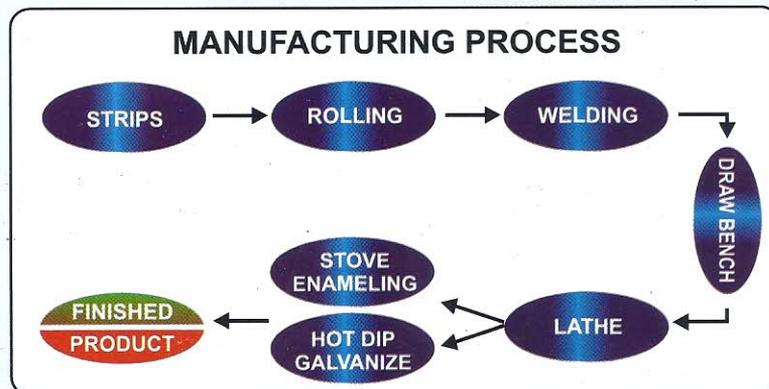
**B.I. CONDUITS**, have adequate mechanical strength to stand the tests which are required for conduits to pass as per specifications to go through Bend Test, Flattening Test, and Compression Test before being taken to the final process.

### SISTER CONCERNS:

To augment the production as well as to introduce new products considering the growing need of the market new production facilities were started as a sister concern of Bharat Industries (Regd.) namely Messers G.K. Steel Tube Private Limited and Messers Bharat Galvanizers & Engineers.

### LOCATION:

Location of factory and office at Dinanagar, District Gurdaspur, Punjab, India. Location well connected by road & rail network. Also nearest airport (Pathankot Airport) is hardly twenty kilometers away.



**DIAMETER, TOLERANCE AND THICKNESS OF CONDUIT MANUFACTURED  
AS PER IS 9537 (PART I & II), 1981**

| Normal Size of Conduit in MM | Outside Diameter in MM | Tolerance on Diameter in MM | Wall Thickness In MM |
|------------------------------|------------------------|-----------------------------|----------------------|
| 20                           | 20                     | 0.30                        | 1.4 - 1.8            |
| 25                           | 25                     | 0.40                        | 1.4 - 1.8            |
| 32                           | 32                     | 0.40                        | 1.4 - 1.8            |
| 40                           | 40                     | 0.40                        | 1.6 - 2.2            |
| 50                           | 50                     | 0.50                        | 1.6 - 2.2            |

**Specification of MS Rigid (Hot Dipped Galvanize and Enamelled) conduit also available of dimensions other than the one mentioned above.**

| Size in mm | Size in mm | Gauge | Approximate weight per 100 Feet (in Kgs.) | No. of Tubes of Standard Length of 10 Feet in a Bundle |
|------------|------------|-------|---|--|
| 19         | 3/4        | 18 G  | 14  | 33   |
| 19         | 3/4        | 16 G  | 19  | 25   |
| 19         | 3/4        | 14 G  | 24-25                                     | 20   |
| 25         | 1          | 18 G  | 19-20                                     | 25   |
| 25         | 1          | 16 G  | 25-26                                     | 20   |
| 25         | 1          | 14 G  | 31-32                                     | 16   |
| 32         | 1 1/4      | 18 G  | 25-26                                     | 16   |
| 32         | 1 1/4      | 16 G  | 31-32                                     | 16   |
| 32         | 1 1/4      | 14 G  | 38-39                                     | 12   |
| 38         | 1 1/2      | 18 G  | 31-32                                     | 12   |
| 38         | 1 1/2      | 16 G  | 38-39                                     | 12   |
| 38         | 1 1/2      | 14 G  | 46-47                                     | 10   |
| 50         | 2          | 16 G  | 55-56                                     | 8  |

**THE NAME OF LABORATORIES WHERE OUR PRODUCTS HAVE BEEN IS TESTED**  
**C.P.R.I. Bangalore (Karnataka) C.E.T.L., Kakkalur (Tamilnadu)**  
**Regional Testing Centre (Western Region), Mumbai Ministry of Industry, Govt. of India**

Manufactures:

**BHARAT INDUSTRIES (REGD.)**

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