



Bharat Heavy Electricals Limited
Product Engineering / Fossil Boilers
Handling System

Annexure - I to Specification No. MHS-HEQ/077 - Rev. 02
(For Pneumatically Operated Furnace Maintenance Platform - 2 wall coverage.)

PROJECT : **Vijayawada 1x800MW**
CUSTOMER NO. : **1817**
REFERENCE DRAWING No. : **1-99-512-40870**

- 1.0** Supplier to supply Furnace maintenance platforms as per specification no. **MHS-HEQ/077 - Rev. 02**
- 2.0** Top of ceiling girder elevation : **99.944 M.**
- 3.0** Access door elevation : **16.613 M.**

4.0 SCOPE OF SUPPLY

4.1.0 PLATFORMS

- 4.1.1** Platform with 45° LH chamfer at one end and other with flat end for a length of **8.500M.** - 1 Set.
- 4.1.2** Platform with 45° RH chamfer at one end and other with flat end for a length of **8.500M.** - 1 Set.
- 4.1.3** Platform with both sides flat with length of **16.000 M.** - 1 Set.
- 4.1.3** Platform wall roller assy & bracket complete with connecting fasteners. The rollers shall be designed suitably to move on the spiral water walls.
- 4.1.4** Complete guard rails with connecting fasteners.
- 4.1.5** Connecting block and tubes with connecting fasteners.
- 4.1.6** Each module shall be capable of mounting STIRRUP arrangements such that any module can be used for traversing between any two cable openings.

4.2.0 STIRRUPS

- 4.2.1** Suitable Hot galvanised stirrups & stirrup retainer complete with fasteners.

4.3.0 HOIST (ROPE CLIMBING MACHINE)

- 4.3.1** Hoist for safe working load of 800 Kgs.
- 4.3.2** Pneumatically operated rope climbing machine with top limit switch.
- 4.3.3** Common single power control for both hoists.
- 4.3.4** Air Supply hoses and corresponding fittings.

4.4.0 SAFETY DEVICES

- 4.4.1** Safety braking system
- 4.4.2** Anti tilting device
- 4.4.3** Mercury level switches
- 4.4.4** Over speed safety device
- 4.4.5** Top limit switches
- 4.4.6** Overload/Under load safety device assembly

Prepared & Checked:

Approved:

Date : 24/07/2017

(Noorul Fazil)

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Page No.:1/2



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4.5.0 WIRE ROPE

- 4.5.1 Suitable length and quantity of steel wire rope with suitable size and construction of 6 X 36 for pneumatically operated hoist. Supplier to specify the size of the rope offered. Minimum length of wire rope shall be 100 M.
- 4.5.2 Secondary wire rope with cable weight.
- 4.5.3 Rope shall be of galvanised steel wire.
- 4.5.4 Rope shall have tensile strength of 240 Kg/Sq.mm. minimum.
- 4.5.5 Rope end fittings, 'D' shackles, thimbles, rope clamps and other required items.

4.6.0 PNEUMATIC SUPPLY

- 4.6.1 The supply pressure shall be 4-6 bar (g).

4.7.0 CONTROL SYSTEM: Centralised control box shall be provided for easy operation.

- 5.0 Vendor shall furnish other mechanical, electrical and control accessories required for safety, easy maintenance and easy operation.

5.0 DOCUMENTS NEEDED

- 5.1 Refer clause no 13.0 of specification.

5.2 O & M MANUALS

- 5.2.1 Operation and Maintenance manuals both as soft copy (CD) and hard copies (in A4-size) should be submitted to BHEL/Tiruchirappalli prior to despatch of the equipment. - No of copies: 4. Clause no 13.5.1 of specification MHS-HEQ-77/02.

5.3.0 Operation and maintenance manual should contain the following:

- 5.3.1 Data sheet for the equipment & its bought out items.
- 5.3.2 Brief description of equipment under supply.
- 5.3.3 Operation, and Trouble shooting
- 5.3.4 Maintenance and service instructions including lubrication schedule wherever required.
- 5.3.5 Recommended spare parts for 3 years for trouble free operation.
- 5.3.6 Assembly drawing with parts list.
- 5.3.7 The manual shall pertain to the model or type supplied for the particular contract.

6.0 GUARANTEE : The offered system shall be guaranteed for 18 months from the date of commissioning or 24 months from the date of supply.

7.0 All the points in specification & annexure - I to the specification should be strictly adhered to.

8.0 Offers without the required documents along with the offer shall not be considered.

Prepared & Checked:

(Noorul Fazil)

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Page No.:2/2
