



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 : **Krishnapatnam 1x800MW**
CUSTOMER NO. : **1816**
REFERENCE DRAWING No. : **1-99-512-40855**

- 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)

(Arulprabhu R)

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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'shakes, 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:

Approved:

Date : 24/07/2017

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(Arulprabhu R)

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