



**Annexure-I to Specification No.
MHS-HEQ-075/Rev.03**

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|---|--|--|
| 1 | Name of Project | : Krishnapatnam 1x800MW |
| 2 | Customer No. | : 1816 |
| 3 | Quantity | : 1 Set |
| 4 | Material of construction | : Steel |
| 5 | Reference Drawing No. | : 0-99-501-40334/ 01
(Furnace arrangement for Quick Erect Scaffold) |
| 6 | Man Hole (Access Door)
Opening Size in mm | : 610x762mm |
| 7 | Special Painting Requirement | : NIL |

	Name	Signature	Date
Prepared & Checked	Saurabh & Fazil		09-04-2018
Approved	MCHS Gangadhar		09-04-2018

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CHECK LIST OF VENDOR'S OFFER-QES/KRISHNAPATNAM 1x800MW

<i>This check list is to be filled up by the vendor and submitted along with the offer. This shall form part of ordering specification and shall be approved by the purchaser incorporating all the comments if any. Vendor to completely fill up the column under "vendor's compliance/confirmation/comments". Non applicability shall be clearly spelt out. Offer with incomplete data sheet/ check list is liable for rejection.</i>					
S.No.	Description	Spec.Clause No.	As per specification	Compliance / confirmation / particulars(to be filled up by vendor)	Remarks
1	Name of the equipment	1.0	Quick Erect scaffolding system		
2	Type of sytem offered		Vendor to specify		
3	Model of the system offered		Vendor to specify		
4	Type of jointing arrangement Provided	3.1	Vendor to specify		
5	Standards / Codes followed	3.2	Vendor to specify		
6	Materials of construction:	3.3.1	Steel		
6.1	Tubes				
6.2	Coupler / Jointing				
6.3	Fastners				
6.4	Stair ways				
6.5	Decking				
6.6	Others				
6.7	Others				
6.8	Others				
7	All components shall have appropriate colour code	3.3.4	Vendor to confirm		
8.0	Quick erect / Quick dismantle	3.7			
8.1			Total Man-hours required for erecting the complete system		
8.2			No. of manpower required for erection:		
8.2.1			Skilled		
8.2.2			Unskilled		
8.3			Total Man-hours required for dismantling the complete system		
8.4			No. of manpower required for dismantling:		
8.4.1			Skilled		

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8.4.2			Unskilled		
8.5			User certificate for the time taken for assembly and dismantling of a similar system shall be furnished along with the offer.		
8.6	Vendor's confirmation to demonstrate the mandays & man power requirement during the actual installation of QES at site.		Vendor to confirm		
9	Furnace configuration	3.8	The offered system shall meet the shape and configuration as shown in BHEL drawing.(Refer Annexure-I). Vendor's compliance.		
10	Provision to introduce all materials thro Access door opening	3.10	Opening size given in annexure -I		
11	Spares	3.11		—	
11.1	Initial spares		Shall be included in the base offer		
11.2	List of initial spares		Vendor to furnish the list of initial spares offered		
11.3	Long term spares		To be quoted separately		
12	Safety Accessories	4.3	Shall form part of the offer. Vendor to furnish the list of accessories supplied.		
13	Factor of safety	4.4	4 times the rated load		
13.1	Maximum intended load of 6 tons		Vendor to confirm for having taken this into the design		
14	Load transfer	5.0			
14.1	No.of support points		Vendor to specify		
14.2	Location of support points		Vendor to furnish		

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14.3	Load per vertical post at support point		Vendor to specify		
14.4	Load transfer points		To be marked up in the drawing		
14.5	Type of support at the furnace hopper		Explain with a drawing. Is the support calling for any welding? If yes, it is accommodated only at the fins and not on the water wall tubes.		
14.6	Maximum safe working load that can be loaded onto the platform		Vendor to specify		
15	Scaffolding System	6.0			
15.1	Staircase width	6.2	Min. 600mm		
15.2	Staircase inclination	6.2	Not more than 45 deg.		
15.3	Provision of upper / mid guardrail	6.3	Vendor to confirm		
15.4	Access to panel and platen superheater and upper rear arch areas	6.4	Vendor to confirm		
15.5	Permissible load on each floor	6.8	Vendor to specify. Shall not be less than 150 kg/sq.m		
15.6	Hand rails height	6.9	900 - 1000mm		
16	Floors	6.10			
16.1	Provision of floor	6.10.1	All floors/ All elevations peripherally only.		
		6.10.2	Full floor platforms shall be provided at just below the upper arch and below the access door opening in the furnace hopper		
16.2	Width of peripheral floor	6.10.6	Min. 700 mm		
16.3	Provision of dismountable midrails	6.10.3	Vendor's compliance		
16.4	Height of Toe boards	6.10.4	Min. 150 mm		
16.5	Materials of construction of floors	6.10.5	Vendor to specify		
16.6	Arrangement drawing of floor	6.10.7	Vendor to enclose		
16.7	No.of floors offered	6.10.7	Vendor to specify		

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16.8	Elevation details	6.10.7	Vendor to indicate in the drawing. Spacing between two successive floors shall be prefereably 2.5 m shall not exceed 3.5m		
16.9	Access to all parts	6.10.8	Vendor to confirm		
17	List of Tools & Tackles	6.11	List to be attached with the offer. If vendor states that special tools are required for the offered system, then the same has to be listed in detail		
18	Storage of scaffold	6.12	Storage volume required and the suggested storage layout		
19	Reference list	6.14	Vendor to submit		
19.1	User certificate	6.14	Vendor to submit		
20	Design justification document	6.15	Vendor to submit		
21	Fasteners with Metric threads	7.3	Vendor to confirm		
22	Applicable colour code	7.4	Vendor to specify		
23	Methodology followed for marking up identification number	7.5	Vendor to specify		
24	Training of purchaser's engineers	7.6	Vendor's compliance		
25	Drawing & documents	7.7	Vendor's compliance		
26	O & M manual	7.8	Vendor to furnish a typical O&M manual of the offered system. Vendor's compliance		
27	Quality plan	8.2	Vendor's compliance		
27.1	Site checks / tests	8.4	Field quality plan - vendor's compliance		
27.2	Inspection	9.0	Vendor's compliance		
28	Packaging and Transportation	10.3	Vendor's compliance		
29	Painting	Annexure-I	Vendor's compliance		
30	Guarantee / Warranty	11.0	Vendor's compliance		

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31	Deviations	12.0	Shall be spelt out in the offer. If there are no deviations, the same shall be confirmed by the vendor		
32	Exclusions	13.0	Shall be spelt out in the offer. If there are no deviations, the same shall be confirmed by the vendor		
33	Documents along with offer	14.1	Vendor to furnish all the documents along with the offer		
33.1	Product literature / catalogue				
33.2	Drawing --- covering:		Specify vendor drawing No.		
33.2.1	General Arrangement		Vendor's compliance		
33.2.2	Sectional arrangement		Vendor's compliance		
33.2.3	Plan view		Vendor's compliance		
33.2.4	Elevation		Vendor's compliance		
33.2.5	Illustrated sketch of coupler / jointing arrangement		Vendor's compliance		
33.2.6	Marking up of load transfer points		Vendor's compliance		
33.2.7	Elevation details of all floor levels		Vendor's compliance		
33.2.8	Weight details		Vendor's compliance		
33.2.9	BOQ covering all components		Vendor's compliance		
33.7	Reference list		Vendor's compliance		
33.8	User certificate		Vendor's compliance		
33.9	Typical O&M manual		Vendor's compliance		
33.3	Deviations		Vendor's compliance		
33.4	Exclusions		Vendor's compliance		
33.5	Quality plan		Vendor's compliance		
33.6	List of special tools & tackles		Vendor's compliance		
34	Documents after placement of Purchase Order	14.2	Vendor's confirmation to furnish all the documents enlisted in Cl.14.2 of specification.		

