

Domain :	bhel.abcprocure.com	
Parent department:	BHEL Trichy	
Unit name	: BHEL Trichy	
Purchase group	: FB Sub-Dely(Mech).	RFQ/NIT/Enquiry Officer : SRIKESH NAYAR
Event ID	: 46151	RFQ/NIT/Enquiry no. : 1802000459
Enquiry Date	: 29/07/2020 05:30:00	
Tender Description	: QUICK ERECT SCAFFOLD ASSEMBLY (STEEL) AS PER SPECIFICATION MHS-HEQ-075/REV 03 TOWARDS PANKI TPS EXTN 660 MW PROJECT	
Terms & Conditions	: <i>Offers from only Indigenous Suppliers are invited in this Tender</i> 01) The Tender will be operated on TWO PART BID basis and you are requested to submit Techno-commercial bid and Price bids in E-procurement site.(Vendors who are not having DSC, shall obtain the same & quote accordingly). For details related to bidding through e-procurement site (abcprocure) please visit URL -https://bhel.abcprocure.com. Refer the following documents in the site -minimum system requirement & Bidder manual. 02) Vendors to note that their offer shall be in line with our enclosed specification requirement only, duly attached with enquiry. Any deviation may lead to rejection of the offer. 03)Please give point wise confirmation to our specification and fill all the columns in the checklist i. MHS-HEQ-075 Rev. 03 ii. Annexure - I to specification MHS-HEQ-075/03 iii. Annexure - II to specification MHS-HEQ-075/03 iv. Annexure-III (Drg: 0-99-501-40363/00) Filled in specification & vendor Quality plan has to be furnished along with offer. Incomplete offer will lead to rejection, please be noted. 04) Please fill up the PQR(Annexure-1) and applicable commercial terms and conditions (Annexure-A) and submit the same along with the techno-commercial bid for evaluation. Pls. note that, offers not meeting the PQR criterias, will not be considered for further evaluation. 05) The tender will be considered as a single package basis for evaluation and ordering including Training and supervision charges. 06) Delivery term: FOR Panki project site basis (Uttar Pradesh state) Packing & forwarding and Freight to your account. Transit Insurance is on BHEL scope. Ex-Works Contracts will not be entertained. 07) The materials are required for Panki TPS Extn 1X 660 MW project site basis (in Uttar Pradesh state) 08) Please take note of loading factors for commercial deviations indicated	

in the Annexure - A. Offer will be evaluated on total cost to BHEL (including training and supervision charges) and after all loadings as applicable..

09) Vendor are requested to quote the Training and supervision charges at site with a validity period of 2 years after commissioning of the boiler or 48 months from the date of supply. The above charges shall be paid only after site/end - user certification on installation/dismantling as per specification MHS-HEQ-075. Vendor to specify the applicable validity period for the training and supervision charges.

10) Packing shall be as per 10.3 of our technical specification.

11) Vendor has to sign and submit the attached Third Party Non -Disclosure agreement along with their Techno-Commercial bid. Deviation may lead to rejection of your offer.

12) Bid should be free from correction, overwriting, using corrective fluid. etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature (s) of person (s) signing the bid.

13) The bidder has to keep track of any changes by viewing the addendum / Corrigendum's issued by the Purchaser on time-to- time basis in the E-Procurement platform. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.

14) Before uploading scanned documents, the bidders shall sign on all the statements, documents, certificates uploaded by him, owning responsibility for their correctness / authenticity.

15) Disclaimer Clause : The Organization (Bharat Heavy Electricals Ltd.) nor the service provider (ABC procure.) is responsible for any failure of submission of bids due to failure of internet or other connectivity problems or reasons thereof.

16. "BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all the Guidelines for Reverse Auction – 2020 techno-commercially qualified bidders.

Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."

Note for MSE vendors.

1. Udyam Registration is a new process of MSME Registration launched by the Ministry of Micro, Small and Medium Enterprises on July 1, 2020
2. All existing enterprises registered under EM–Part-II or UAM or any other registration issued by any authority under the Ministry of MSME are required to register again on the Udyam Registration portal (<https://udyamregistration.gov.in>). Such enterprises are required to apply and obtain Udyam Registration on or after 1st July 2020.
3. On registration, an enterprise is assigned with a permanent identity number, known as "Udyam Registration Number". An e-certificate, namely,

“Udyam Registration Certificate” will be issued on completion of the registration process.

4. The MSE status of existing enterprises registered prior to 30th June 2020 shall be valid only till 31st March 2021. (i.e.) Udyam Registration Certificate is mandatory for all MSME enterprises from 1st April 2021.

Enclosures:

01) Annexure1 (Pre - Qualification Criteria).

02) Annexure A (Commercial terms & conditions and Loading Factors)

03) Third party non-disclosure agreement.

04) BHEL Technical specifications & drgs.:

i) Specification MHS-HEQ-075 / Rev.03

ii) Annexure -I to specification MHS-HEQ-075/03

iii) Annexure -II to specification MHS-HEQ-075/03

iv) Annexure-III (Drg: 0-9-501-40363/00)

05) PBG Format.

07) Annexure C for MSE conditions

08) Make in India declaration format

09) CA certificate format

Product / service / work keywords	:	Scaffolding System,			
No. of Bid Parts	:	Multiple	Envelope	:	Techno-commercial bid , Price bid
Type of contract	:	Goods	Project duration / delivery or completion period	:	03 months from document approval
Download document	:	Before login	RFQ floated under the policy	:	PP-PURCHASE POLICY
Estimated Category	:	L	Delivery/Location At	:	FOR Panki project Site
Delivery Date	:	01/02/2021 05:30:00	Inspection by Agency	:	BHEL TPIA/BHEL/NTPC/Customer
Inspection Location	:	At vendor works , before dispatch	Min. bid required	:	01

Bid submission configuration

Bid evaluation	:	Grand Total Package	Bidding access	:	Open Tender
Base currency	:	INR	Bidding type	:	NCB/Indigenous

Key configuration

Pre-bid meeting	:	Don't allow
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Dates configuration

Document downloading start date	:	29/07/2020 18:00:00	Document downloading end date	:	13/08/2020 14:00:00
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Bid submission start date : 29/07/2020 18:00:00 Bid submission end date : 13/08/2020 14:00:00

Bid opening date : 13/08/2020 14:01:00

Document / EMD / Security fee detail

Document fees : Not required EMD : Not required

Bidding forms

Price bid

Price bid

Item description	Quantity	Unit
QUICK ERECT SCAFFOLD ASSEMBLY AS PER SPECIFICATION MHS-HEQ-075/REV.03 WITH DRG 0-99-501-40363/00	1.00	NO

Disclaimer clause: The calculation shown here is for information purpose only. Suppliers should not treat the same as final. BHEL will release order on L1 supplier finalised as per tender terms and conditions and procedure.

Information for Online Participation

Bidder who wish to participate in this tender needs to procure Digital Certificate as per Information Technology Act-2000 using that they can digitally sign their electronic bids. Bidders can procure the same from any or the CCA approved certifying agencies, or they may contact e-Procurement Technologies Ltd. at below mentioned address and they will assist them in procuring the same. Bidders who already have a valid digital Certificate need not to procure the same. In case bidders need any clarification regarding online participation, they can contact,

e-Procurement Technologies Ltd.

Corporate Office:

Address : A-201/208, Wall Street - 2, Opp. Orient Club,
Nr. Gujarat College, Ellis Bridge,
Ahmedabad - 380006, Gujarat(INDIA)

Digital Certificate Contacts

Contact Person : Mr. Himalay Vaishnav
Cell : +91-9099090830
Phone Nos. : +91-9099090830
Fax No :
e-Mail : info@abcProcure.com

Support Team Contacts

Contact Person : BHEL Support Team Ahmedabad
Cell : +91-9265562819
Phone Nos. : +91-79-68136849/72/50/09/48
Fax No :
e-Mail : Bhel.Support@abcProcure.com

Bidder who wish to participate in e-Tender need to fill data in predefined forms of Price bid available in respective tender only. After filling data in predefined forms bidders need to click on final submission link to submit their encrypted bid. Bidder need to submit Document Fees, EMD & Reference Documents in hard copy if such instruction are given by tendering authority. As Per the new Inter-operability guidelines released by Controller of Certifying Authorities(CCA), the Secured Socket Layer(SSL) certificate for a e-procurement application is generated on a new algorithm, SHA2.

Also, the Digital Certificates that will be applicable for these platforms have to be SHA2 algorithm complaint. For the same, the users have to ensure that they have Windows XP(SP3)/Windows Vista/Windows7 installed in their respective PC/Laptop. In case of Windows XP Service pack - 3, if you get any issue you can install the SSL patch, which is available at our download section of our e-Tender/e-Auction Portal and also at our corporate website www.abcprocure.com just below the label of "Knowledge section".

Fraud Prevention

Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.

Preference to Make in India

For this procurement, Public Procurement (Preference to Make in India), order 2017 dated 15.06.2017 & 28.05.2018 and subsequent orders issued by the respective Nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable. Default margin of purchase preference shall be 20% to local suppliers with default minimum local content of 50%.

Technical Pre-Qualification Requirement for Quick Erect Scaffold- STEEL:

Bidder should have designed, manufactured, tested and supplied quick erect scaffolding(QES) for a boiler capacity of **210 MW** or bigger units which should have been successfully put in use for at least once in a power plant.

For the above, the Bidder has to submit any of the following supporting documents meeting above mentioned pre-qualifying requirement:

- i) Bidder shall submit a certificate issued by at least **two end users** of the QES equipment along with copy of related Purchase Order (meeting the minimum pre-qualifying requirement) for the satisfactory service and use of the system, each used at least once before the date of the certificate.

OR

- ii) Minimum three customer's/third party inspection reports along with purchase order copy meeting the minimum pre-qualifying requirement.

OR

- iii) Minimum three purchase orders (placed with minimum gap of 6 months from previous purchase order) from same purchaser meeting the minimum pre-qualifying requirement.

Alternatively, in the absence of above credentials, Bidder shall submit minimum one reference of having supplied the scaffolding system for application involving construction of access platforms at a height not less than 40m along with end user certificate for satisfactory installation and safe working on such system. Also, Bidder shall demonstrate the construction of scaffolding arrangement simulating the boiler furnace application i.e. supporting from furnace hopper (hopper geometry as per the BHEL drawing). Besides, Bidder shall also carry out scaffolding load test as per the applicable standards and approved procedure by BHEL, which shall be witnessed and certified by BHEL / BHEL approved agencies.

Instructions to Bidder

- A. Bidder should submit design documents to substantiate technical parameters specified in PQR, if the same is not mentioned in performance certificate/inspection report/ purchase order.
- B. All the above PQR satisfying document submissions should be enlisted and submitted as Annexure-D. (the format given below).
- C. Bidder may also qualify based on the credentials of principal with whom the Bidder is having valid collaboration/licensing agreement to meet the package specific pre-qualifying requirements.
- D. In case the documents submitted for meeting PQR are in language other than English, notarized English translation shall also be submitted.
- E. BHEL reserves the right to assess the capabilities and capacity of the bidder/collaborators to perform the contract, as per BHEL evaluation procedure.
- F. Final acceptance of the bidder is subject to BHEL and end customer's approval to consider in this tender.

Format for submission of credentials as ANNEXURE-D

Sl.No.	Description of Project	Brief Scope of work	P.O. Ref. No. & Date	Purchase order value (Rs).	Date of completion as per P.O.	Performance Certificate enclosed (Y/N)	Remark



An ISO 9001
Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirappalli-620 014, Tamil Nadu, India
Dept: MATERIALS MANAGEMENT/BOI

Annexure – A - Terms and Conditions
ACCEPTANCE OF TECHNO - COMMERCIAL TERMS & CONDITIONS BY THE
BIDDERS

Description of the Equipment:		Quick Erect Scaffold assembly (Steel) for Panki- 660 MW-1 project
Enquiry No:		Enq No 1802000459/14 dt. 29.07.2020
Sl. No.	Terms and conditions	Vendor's confirmation
1 (a)	<u>Technical:</u> Supply shall be as per BHEL's Technical Specifications (MHS-HEQ-075/REV.03 with Annexure-I, II & III (Drg: 0-99-501-40363/Rev.00) attached with the enquiry, without deviation. Pl note that document approval (Drawings/Technical documents and QP) by BHEL and Customer/NTPC is applicable.	
1 (b)	Inspection by BHEL Approved Third Party Inspection Agencies/BHEL/Customer/Any IBR approved TPI agency at vendor works before dispatch is applicable. Shipment shall be made only after obtaining despatch clearance from BHEL/MDCC from Customer.	
1 (C)	Confirmation & submission of all PQR documents as per annexure -1 (Technical pre-qualification requirements) Note: Vendors not meeting PQR will be rejected.	
1 (d)	Offer will be considered as package basis for evaluation & ordering, as indicated in the tender. Evaluation will be on total cost to BHEL, after all loadings as applicable.	
1 (e)	Pl note that your offer consideration is subject to Techno- Commercial Suitability & customer approval before Price bid opening.	
2	<u>Firm Price:</u> The quoted / finalised rates shall be Firm till execution of the supplies. Offer with Price Variation Clause (PVC) will not be considered.	
3	The tender will be operated in two part bid system. One-part consisting of Technical bid with Commercial terms & conditions and other part is Price Bid. Based on the above and other conditions, as well as technical capability, vendors will be short-listed. The Techno-commercial bid will be opened on the due date and based on the suitability of techno-commercial bid, the price Bid of the techno-commercial suitable qualified vendors will be considered and opened (through Reverse auction) on a suitable date with due intimation to vendors.	
4	<u>Delivery term:</u> The quote shall be on FOR Panki project site basis (Uttar Pradesh State). Packing & forwarding and Freight to yours account. Transit Insurance is on BHEL scope <u>Ex-Works Contracts will not be entertained.</u>	

5	<u>Payment terms :</u> “100% direct EFT payment after 60 days from the date of dispatch against site acknowledgement and against 10% PBG valid for the Guarantee period.” Note: PBG format is attached with the Enquiry. No deviation is permitted & the deviated offers are liable for rejection. PBG shall be submitted for 10% of the PO value and the validity of the PBG shall have a validity period till the Guarantee period & the claim period shall have three months extra.	
6 (a)	<u>Liquidated damages:</u> Delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in the time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional LD at the rate of 0.5% of the order value per week of the delay or part thereof subject to a maximum of 10% of the total order value. In case of PO placements, required documents have to be submitted for approval within 15 days from the date of PO & reply for any further clarification has to be within 7 days. Any delay beyond the above specified period will be considered during LD calculation.	
6 (b)	<u>Loading Criteria on LD term for arriving the L1 rate:</u> Any deviation on BHEL LD clause, loading (Offered Value) will be applied to the extent to which it is not agreed by the bidder. *Acceptance of LD on undelivered portion will be loaded at the rate of 10% (max).	
7 (a)	<u>Guarantee / Warranty Period:</u> The offered system shall be guaranteed for 24 months from the date on which the equipment / system is put into use (by the end user) or 48 months from the date of supply whichever is earlier against defective design, defective material usage, defective workmanship, defective packaging and forwarding	
7 (b)	<u>Loading Criteria:</u> <u>Guarantee / Warranty Period:</u> No Deviation is permitted. If still vendor offered any deviation on the Guarantee / warranty period, it may lead to rejection of offer.	
8	<u>Risk purchase:</u> If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHEL will be entitled to terminate the contract and to Purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the delivery period mentioned in the Purchase Order.	
9	<u>Delivery Period:</u> 03 months from document approval	
10	LR date will be considered for LD calculation..	

11	<u>Validity:</u> 120 days minimum from techno commercial bid opening (Part-1). Any Deviation with respect to validity your offer is liable for rejection. Ensure your quoted rates will have 120 days minimum validity from techno commercial bid opening. The delay in responding to BHEL technical clarification beyond four days will be subsequently added to the validity period, Revised Price Bids will not be encouraged.	
12	<u>Inspection and testing requirements:</u> Inspection and testing requirements are to be carried out as per the specification and BHEL/Customer approved Drawing (All documents shall be submitted within 15 days from the date of PO for our approval), Technical spec & QP and all test certificates are to be submitted in complete set. Inspection notice period: For TPI inspector visit to vendor works, a minimum of 3 working days' notice period for indigenous vendors and 30 working days' notice period for import vendors is required well in advance from the proposed date of inspection	
13	<u>Repair & replacements:</u> Within the guarantee period vendor has to replace / rectify the defective/ damaged items on free of cost within a reasonable time of reporting from our end.	
14	Documents are to be submitted along with technical bid (Part-1) 01. Covering letter 02. Unpriced offer. 03. Filed technical specification 04. Filed BHEL Terms and condition sheet (Annexure-A) 05. Catalogue's 06. PQR (Special Conditions annexure -1) 07. List of Spare parts 08. Third party non-disclosure agreement Documents are to be submitted along with Price bid (Part-2) 01. Priced offer Note: All the pages of documents are to be signed and stamped by authorized signatory of the company.	
15	<u>MSE Applicability as per Annexure C. The vendors shall furnish valid certificates (Latest audited CA certificate & UAM) as per annexure C, for availing the benefits of MSE with deemed validity in the offer itself.</u> Note: As per Gazette Notification no. S.O. 2119(E) dated 26.06.2020 issued by Ministry of MSME regarding change in definition of Micro, Small & Medium Enterprises (MSMEs) applicable w.e.f. 01.07.2020, you are hereby requested to obtain 'UDYAM Registration' and submit the same. <u>Note for MSE vendors.</u> 1. Udyam Registration is a new process of MSME Registration launched by the Ministry of Micro, Small and Medium Enterprises on July 1, 2020 2. All existing enterprises registered under EM-Part-II or UAM or any other registration issued by any authority under the Ministry of MSME are required to register again on the Udyam Registration portal	

	(https://udyamregistration.gov.in). Such enterprises are required to apply and obtain Udyam Registration on or after 1st July 2020. 3. On registration, an enterprise is assigned with a permanent identity number, known as “Udyam Registration Number”. An e-certificate, namely, “Udyam Registration Certificate” will be issued on completion of the registration process. 4. The MSE status of existing enterprises registered prior to 30th June 2020 shall be valid only till 31st March 2021. (i.e.) Udyam Registration Certificate is mandatory for all MSME enterprises from 1st April 2021.	
16	<u>Make in India:</u> For this procurement, Public Procurement (Preference to Make in India), order 2017 dated 15.06.2017, 28.05.2018 & 04.06.2020 issued by DPIIT and subsequent orders issued by the respective Nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable. Default margin of purchase preference shall be 20% to local suppliers with default minimum local content of 50%. “For this procurement, the local content to categorize a supplier as Class I local supplier/ Class II local Supplier/ Non- Local supplier and purchase preference to Class I local supplier, as defined in Public Procurement (Preference to make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, The same shall be applicable even if issued after issue of This NIT, but before opening of part-II bids against his NIT” For more details, pls. refer the Public Procurement (Preference to Make in India), order 2017 dated 15.06.2017 & 28.05.2018 and subsequent orders issued by the respective Nodal ministry.	
16 a	<u>Important Information for Suppliers:</u>	
	Kindly indicate the GST No of your Firm	
	Kindly Indicate the HSN Code for the Enquiry item.	
	Please indicate the applicable GST % (IGST, SGST, CGST)	
	Kindly Note the BHEL Trichy Unit GST NO : 33AAACB4146P2ZL	
	Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration number which should clearly have mentioned in the offer. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer.	
	<u>In Case of Order Placement:</u>	

16 b	Supplier shall mention their GSTN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.	
	All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).	
	A declaration to the effect that all invoice particulars are/were uploaded in the GSTN network/ portal & all tax liability as per GST rules and regulations have been and will be discharged, shall be mentioned in the invoice. If not mentioned in the invoice, a separate declaration shall be submitted as per the requirement of BHEL.	
	All dispatch and quality documents like Mill Test Certificate, LR copy, Guarantee/Warranty certificate, work completion certificate, any other document mentioned in PO, shall be sent along with the vehicle/consignment. For all consignments received within the calendar month, input credit will be availed within that month in line with monthly returns filing cycle. In case of any discrepancy in the document or non-submission of documents mentioned in the PO, then BHEL will not be able to accept or account the material, in such case availing of tax credit will be deferred to next month or so	
	In case of discrepancy in the data uploaded by supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note (details to be uploaded in GSTN portal) for the shortages or rejections in the suppliers, within the calendar month notified by BHEL	
	For any such delay in availing of tax credit for reasons attributable to supplier (as mentioned above), interest (calculated @ SBI Base Rate + 6%) along with penalty if any will be deducted for the delayed period i.e. from the month of receipt till the month tax credit is availed, from the running bills.	
	Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contractors. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number. For this, Debit note will be issued by BHEL indicating the respective supply invoice number. Debit note will be available on our B2B portal.	
17	BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all the Guidelines for Reverse Auction – 2020 techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.”	

Note:	BHEL may negotiate the L1 rate, if not meeting our budget/estimated cost. BHEL may re-float the tender opened, if L1 price is not the acceptable price to BHEL. Any deviation in specified commercial terms- Annexure B, will lead to rejection of offer. Any other Techno –Commercial Terms indicated by the vendor in their offer elsewhere will be ignored. BHEL will proceed with tender evaluation as per Annexure A only.	
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Vendor's Seal and Signature

BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI-620 014

Fuel Systems/PE(FB)

Title Sheet

**Quick Erect Scaffolding
System
(Material: Steel)**

Specification Number: MHS-HEQ-075

Revision No. : 03

03	03-04-2018	Revisit on specification. Clauses revised: 3.2,3.7, 3.8,3.9,4.0,5.0,6.0,6.10 - 6.12, 7.6, 7.7, 7.8, 11.0, 14.1	NFM/MCHS
02	06-02-2016	Specification updated for steel scaffolding. In cl.3.3.1, material was steel/aluminium.	DVK/MTP
01	27-04-2006	In Cl.No. 6.10.1, the floor space Elevation 2.5 to 3.5M was 3 to 4 M. In Cl.No.7.8.1, No of copies of manuals: 3 Sets + 3 CD –ROMS were 26Sets + 5CD-ROMs.	SSR/JVVA
Revision No.	Revision Date	Revision statement	Checked& Approved

	Name	Signature	Date
Prepared	S.Selvaraju	-Sd-	30-06-03
Checked	S.V.Sivaramulu	-Sd-	30-06-03
Reviewed	C.Palanisamy	-Sd-	30-06-03
Approved	A.Rajamohan	-Sd-	01-07-03



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

Table of Contents

Tender documents in addition to this specification	3
1.0 Intent:	4
2.0 Scope:	4
3.0 Requirements of the system.....	4
3.2 Codes & standards	4
3.3 Material of construction	5
4.0 Safety	6
5.0 Load Transfer	6
6.0 Scaffolding system:	7
6.10 Handrails and guardrails.....	7
6.11 Floors	8
6.12 Tools and tackles	8
7.0 General requirements.....	9
7.6 Supervision & Training:.....	9
7.7 Drawing and Documents:	10
7.8 Operation & Maintenance (O & M) Manual	11
7.8.1 Format of manuals	12
8.0 Quality	12
8.1 General requirements.....	12
8.2 Quality plan	12
8.3 Quality assurance- general requirements	13
8.4 Site checks/tests.....	13
9.0 Inspection	14
10.0 Protection, preservation, packaging and transportation	15
10.1 Protection	15
10.2 Preservation	15
10.3 Packaging and transportation.....	15
11.0 Guarantee / Warranty.....	15
12.0 Deviations.....	15
13.0 Exclusions	16



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

14.0	Documents to be submitted by vendor.....	16
14.1	Documents to be submitted along with the offer:	16
14.1.5	Design Calculation:.....	16
14.2	Documents to be furnished after award of contract	16
15.0	General	17

Tender documents in addition to this specification

Annexure – I ----- Specific Project Requirements

Annexure – II ----- Check list (To be filled in by the Vendor)

Annexure – III ----- BHEL Drawing (Furnace Arrangement for Quick Erect Scaffold)



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

1.0 Intent:

The quick erect scaffolding system is intended for carrying out maintenance work inside a boiler furnace which comprises water walls, Burners, Soot blowers, Super heaters, Re-heaters etc. during shut down period. As the name implies, the scaffolding shall be safely erected and dismantled in the shortest possible time with less manpower and with minimum supervision.

The scaffolding system shall be sufficient enough to cover all the water wall areas, in a single set up, including inclined area of the boiler above rear wall and furnace bottom (Bottom hopper).

The system shall be preferably of modular and interchangeable construction and easily and quickly assembled inside the furnace.

2.0 Scope:

This specification covers design, manufacture, inspection and supply of quick erect scaffolding system. The specification is for ensuring a safe and trouble free quick erect scaffolding system used during shutdowns and overhauls, for inspection and maintenance of furnace internals of steam generator like Water walls, Burners, Super heaters etc.,

3.0 Requirements of the system

3.1 Quick erect scaffolding system shall be of fast erecting with suitable connecting/coupling arrangement.

3.2 Codes & standards

All equipment parts, systems and works covered under this specification shall comply with all currently applicable statutory regulations and safety codes of the Republic of India as well as of the Company/Country where they will be installed. The offered system shall conform to national / international standards and the same are listed below:

IS:2750		Specification for steel scaffoldings.
IS:4014 (PART 2)		Code of practice for steel tubular scaffolding (Part- II safety regulations for scaffolding)
IS:4014 (PART 1)		Code of practice for steel tubular scaffolding (Part-I definitions and materials)
IS:3696 (PART 2)		Scaffolds and ladders – Code of safety.
IS:806		Code of practise for use of steel tubes in general building construction.
BS EN 12811		Temporary works equipment. Scaffolds. Performance requirements and general design



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

ANSI/ASSE A10.8 American national standard construction & demolition operations.

3.3 Material of construction

3.3.1 The material of construction of various components shall be Steel of proven design for Scaffolding application. It is suggested that the selected material shall also be light in weight to hasten the erection of scaffold in the shortest possible time. For general requirements of materials, refer to cl.8.1 of this specification.

3.3.2 All materials used for construction of different components shall individually conform to latest revisions of National / International Standards and it shall be specified in the offer.

3.3.3 All the components of the scaffolding system shall have *appropriate colour code* for easy identification. The colour code shall be specified in the offer and will have Purchaser's approval. For special painting requirements, refer to Annexure-I to this specification.

3.4 The quick erect scaffolding system shall provide flexibility in erection of vertical posts & horizontal / diagonal connecting members.

3.5 Vertical posts & horizontal / diagonal connecting members shall have equal spacing for easy erection. Connections of the above shall be with suitable quick connect hardware arrangement. Vertical posts / horizontal / diagonal members shall have equal and standard lengths for easy interchangeability & modular assembly and disassembly.

3.6 The vertical posts and horizontal members shall be so designed to fill the space of furnace configuration.

3.7 Vendor shall offer a system which is erectable and can be dismantled at the quickest possible time. Vendor shall indicate, in the offer, the man-hours required and also manpower (skilled and unskilled) needed to carry out erection and dismantling of the system. Vendor shall also provide the total erection /assembly time of the full scaffold. **The total time required for erection shall not exceed 4 days (96 hours) and dismantling 2 days (48 hours), considering the work force deployed for 24 hrs in 3 shifts a day.** In support of the above, vendor shall furnish erection & dismantling schedule.

3.8 Quick erect scaffolding system shall meet the shape & configuration of the Furnace arrangement to have easy access to all parts of furnace including rear water wall arch. (Ref. Annexure-III). The corner design of the scaffolding shall conform to the cut corner requirement of the boiler (in burner region) and wherever there are no cut corners, the scaffolding should meet the shape & configuration as shown in Annexure-III.



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

3.9 The requirement of the system, as spelt above, is minimal and indicative only. Vendor shall offer the most appropriate system for the intended specification and duty condition. The offered system shall be clearly illustrated with sketches and elaborate details.

3.10 All the required materials shall be introduced into the furnace for assembly through the access door opening (Refer Annexure-I) and or furnace bottom opening and all components shall be sized accordingly.

3.11 Vendor shall include the required number of Initial Spares in the base offer itself. *Initial spares mean the spares required during first erection/commissioning of the system to replace the items that are either damaged or lost during transit/storage. Hence, vendor shall quote for the initial spares along with the base offer. The list of initial spares shall be clearly furnished in the offer.*

The spares required for long term usage shall be quoted separately.

4.0 Safety

4.1 The general requirements for scaffold should be as per ANSI A10.8-2011/Section 4.

4.2 The locking arrangement for the scaffolding shall not call for any welding.

4.3 Quick erect scaffolding system shall be arranged in such a manner to remove /erect individually without affecting other boiler components.

4.4 Safety accessories like safety belt, safety helmet, safety shoes, gloves etc. shall also form part of the offer.

4.5 Scaffolds, as per ANSI A10.8-2011 / Section 4.8, shall be capable of supporting, without failure, their own weight and at-least four times the maximum **intended load** of 6000 Kg.

Also, Scaffolding shall be designed to withstand a **Uniformly distributed load**, not less than 150 kg/sq.m. Intended load and uniformly distributed load are not cumulative but the requirement which is most restrictive shall govern the design of scaffold deck. In line with this, Scaffolding, which includes work platforms, bracings, and supporting members, shall be designed for a minimum safety factor of '4' which is applied to the design load.

4.6 Vendor shall indicate the overall permissible load and Load per square metre at any given instant on the scaffolding system offered.

5.0 Load Transfer

Vendor shall clearly spell out in his offer the load that is likely to be transferred to the furnace walls. This load shall include the dead weight of the scaffolding including the platforms and the safe working load that can be loaded on to the platform. With respect to the Load transfer, the following details shall be furnished in the offer.

- The no of support points



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

- The location of support points
- The load per vertical post at the support points
- The load transfer points shall be clearly marked up in the drawing
- No load shall be transferred onto the Windbox / burner.
- Vendor shall indicate the type of supports proposed with an aid of sketch/drawing. (load transfer through all supports shall be at the fins zone only and not on the tubes)

6.0 Scaffolding system:

The Scaffolding system shall be provided with:

- 6.1 Close access to inspection / maintenance of boiler tubes / water wall, burner & other components including boiler furnace roof.
- 6.2 Stair case with a width of minimum 600mm and not more than 45⁰ inclinations. Staircase shall be provided with hand rails.
- 6.3 System shall have upper / mid guard rail without any special components.
- 6.4 Access to Panel and Platen super heater and rear wall upper arch portion to be envisaged.
- 6.5 The scaffolding shall also have access to horizontal pass up to the level where transverse tube pitching in the direction of gas flow path is equal to and greater than 750 mm.
- 6.6 Arrangement for stable floor.
- 6.7 Suitable arrangement for supporting at furnace bottom without additional attachment with boiler tubes.
- 6.8 In total, the assembly shall have amongst other things – vertical posts, horizontal members, vertical /horizontal / diagonal bracings, trusses and other fastening arrangements etc.
- 6.9 Load per square metre (not less than 150 kg/sq.m) on the scaffolding system shall be furnished by vendor. Vendor shall indicate the overall permissible load at any given instant on the scaffolding system offered. (Refer clause 4.5 also).

6.10 Handrails and guardrails

- 6.10.1 Handrails / guardrails shall be with a height between 900 mm to 1000mm.
- 6.10.2 Handrails / guardrails and components shall be of sufficient strength to withstand a 90kg force applied at any point, in any outward or downward direction, except upwards, without failure.
- 6.10.3 Handrails / guardrails system shall not be required on the furnace wall side when the space between platform/scaffold and furnace walls is less than 200 mm. However, toe boards as per 6.11.5 shall be envisaged everywhere to prevent accidental rolling down of tools.



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

6.11 Floors

6.11.1 Floors are to be provided peripherally at all elevations except at the levels specified in clause 6.11.3 where full planking is required. The elevation levels shall be determined by the vendor. However, the space between two floors shall be preferably 2.5 m below the top of wind box and shall not exceed 3.5 m there after (above wind box). Nowhere the space between the working floors be less than 1.8 m.

6.11.2 However, to provide access to all the areas within the floor space, suitable ladders shall be provided which can be safely fixed on to the floors. Minimum 6 nos. of such ladders shall be provided.

6.11.3 Full platforms/floors (not just peripheral) shall be provided at just below the access door near upper rear arch and below the access door opening in the furnace hopper. The full floor elevation details shall be furnished by the vendor.

6.11.4 Floors shall be provided with guard rails, mid rails and toe boards installed on all open sides and ends. Mid-rails shall be of dismountable type. All rails and posts shall be suitable for easy assembly & disassembly.

6.11.5 Toe boards/guards shall extend to a minimum of 150mm above the working surface.

6.11.6 Vendor to specify the type of flooring offered. The flooring material offered shall be of non-flammable/ non-combustible material.

6.11.7 The width of the floor and gap between the furnace wall and floor shall be clearly specified by the vendor and the same shall be clearly shown in the drawing. Floor width (peripheral) shall be minimum 700mm.

6.11.8 The number of floors offered with “elevation” details shall be clearly mentioned in the drawing.

6.11.9 The floor elevations and no. of floors shall be decided in such a way that access is available to all parts (especially burner area) of the water walls. (For burner level elevations refer to Annexure-III).

6.12 Tools and tackles

6.12.1 The Vendor shall supply with the main equipment one complete set of special tools and tackles required for erection, assembly, dismantling and proper maintenance of the equipment and system. These special tools will also include special material handling equipment, jigs and fixtures if applicable. The list of such tools and tackles shall be submitted by the vendor along with the offer.

6.12.2 The price of each tool/tackle shall be deemed to have been included in the total bid price. These tools and tackles shall be packed and sent to site. All the tools and tackles shall be of reputed make acceptable to the Purchaser.



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

6.13 Any other items though not specifically mentioned in this specification but needed to complete the equipment and system [unless specifically mentioned under exclusions shall form part of the offer].

6.14 Vendor shall specify the storage space requirement of the system components and shall furnish suggested storage layout with special instructions, if any, for proper storage of the material.

6.15 Vendor may also submit necessary documents for justifying the design aspects of the scaffold offered both for stability and safety.

7.0 General requirements

7.1 All materials, components used in the design, construction and installation of scaffolds shall meet the requirements of its specified application in accordance with good engineering practice. All material shall be supplied as per vendor's bill of quantity document and if any shortage of material found later or during installation of the scaffolding system at site, Vendor is responsible for the same and shall agree to supply the additional material at free of cost.

7.2 The material of construction and its duty class shall be clearly spelt out in the offer and the same shall conform to specified National / International Standards. All materials used for the construction of the equipment shall be new and shall be in accordance with the requirements of this specification. Materials utilised for various components shall be those which have established themselves for use in such applications for at least a period in excess of 2 years.

7.3 All fasteners used, if applicable, shall be of Metric threads only. (No British / American threads in the inch system is permitted)

7.4 Vendor shall follow International colour Code wherever applicable for various components, assembly and sub-assembly for easy identification of components of the system.

7.5 All assemblies /sub-assemblies and individual components shall bear proper identification numbers. The methodology followed shall be clearly spelt out in the base offer.

7.6 Supervision & Training:

7.6.1 The Vendor shall extend all possible assistance and co-operation to the purchaser regarding the development of expertise in the area of assembly, disassembly, identification, storage & retrieval and safety aspects of the system offered.

7.6.2 Vendor shall also impart the necessary training - training of personnel for the required days at the vendor's engineering/manufacturing facility - training at the job site for the required period by the vendor's representative.

7.6.3 Vendor shall undertake guarantee to demonstrate clause 3.7 (manpower & man days) during the installation (both erection and dismantling) of scaffold in any one of the shutdown



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

period as and when demanded by the end user within 2 years after commissioning of the boilers or 48 months after completion of supply.

7.6.4 The cost applicable for clauses 7.6.2 & 7.6.3 shall be indicated separately in the offer as supervision and training charges. The above charges shall be paid only after site/ end-user certification on installation / dismantling as per clause 3.7 and training as described above.

7.7 Drawing and Documents:

7.7.1 All documents/text information shall be in MSWord 2000 or above version.

7.7.2 All drawings shall be made in AutoCAD- Release 2016 or above version.

7.7.3 All vendor documents & BHEL filled in datasheets that form the part of offer shall be duly filled, signed with vendor seal before submission. However, care should be taken to ensure legibility.

7.7.4 The vendor drawings shall include – scaffold general arrangement inside boiler, floor elevations with floor numbers, space between floors, plan view for each floor, access door elevation and size, space between furnace wall & floor end.

7.7.5 All drawings submitted by the Vendor including those submitted at the time of bid shall be in sufficient detail indicating the type, size, arrangement, weight of each component for packing and shipment, the external connection, fixing arrangement required, the dimensions required for installation and interconnections with other equipment and materials, clearance and spaces required between various portions of equipment and any other information specifically requested in the drawing schedules.

7.7.6 Each drawing submitted by the Vendor (including those of sub-vendors) shall bear a title block at the right hand bottom corner with clear mention of the name of the Purchaser, the system designation, the specifications title, the specification number, the name of the Project, drawing number and revisions. If standard catalogue pages are submitted the applicable items shall be indicated therein. All titles, notes, markings and writings on the drawing shall be in English. All the dimensions should be in metric units. If standard BHEL title block is furnished, the same shall be incorporated in vendor's drawings.

7.7.7 The Vendor shall also furnish a "Master Drawing List" which shall be a comprehensive list of all drawings/documents/calculations envisaged to be furnished by him during the detailed engineering to the Purchaser. Such list should clearly indicate the purpose of submission of these drawings i.e., "FOR APPROVAL" or "FOR INFORMATION ONLY". Similarly, all the drawings/documents submitted by the Vendor during detailed engineering stage shall be stamped "FOR APPROVAL" or "FOR INFORMATION" prior to submission.

7.7.8 The furnishing of detailed engineering data and drawings by the Vendor shall be in accordance with the time schedule for the project. The review of these documents / data / drawings by the Purchaser will cover only general conformance of the



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

data/drawings/documents to the specifications and contract, interfaces with the equipment provided by others. The review by the Purchaser should not be construed to be a thorough review of all dimensions, quantities and details of the equipment, materials, any devices or items indicated or the accuracy of the information submitted. The review and/or approval by the Purchaser shall not relieve the Vendor of any of his responsibilities and liabilities under this contract.

7.7.9 After the approval of the drawings, further work by the vendor shall be in strict accordance with these approved drawings and no deviation shall be permitted without the written approval of the purchaser.

7.7.10 The Vendor shall submit adequate points of drawing/data/document for Purchaser's review and or approval. When changes are required, drawings shall be resubmitted promptly, with revisions clearly marked, for final review. Any delays arising out of the failure of the Vendor to submit/rectify and resubmit in time shall not be accepted as a reason for delay in the contract schedule.

7.8 Operation & Maintenance (O & M) Manual

Typical O&M manual for the type of system offered shall be submitted along with the offer. Manuals generally shall contain the following:

- Brief description
- Assembly drawings with part list, dimensional drawings and other applicable drawings.
- Manuals should pertain only to the type or model supplied for this contract.
- Drawing and catalogues.
- Sequence of erection.
- Erection instructions.
- Critical checks and permissible deviation/tolerances.
- List of tool, tackles.
- Bill of Materials.
- Procedure for erection and dismantling.
- Procedure/checklist for commissioning of the system.
- Procedure for initial checking after erection.
- Maximum permissible load and load per square metre at any given instant on the scaffolding system.



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

7.8.1 Format of manuals

- a) Manuals should be both in printed form and in electronic media with a text font size of 12.
- b) The size of manuals should be in correct A4 size with drawings in either A4 or A3 size. Large size drawings (greater than A3 size) should be reduced to A3 size and inserted.
- c) Drawings shall be of printed or laser printed only.
- d) Spiral or comb bound copies should be totally avoided.
- e) If manuals are supplied in folders, the folder shall have 3 hole punching system.
- f) No of copies of manuals: 3 Sets + 3 CD –ROMS
- g) O & M manuals, should be submitted to BHEL / Tiruchirappalli prior to despatch of the equipment.

8.0 Quality

8.1 General requirements

8.1.1 All materials used for equipment construction including plates, pipes, forgings, fittings etc., shall be of tested quality as per relevant codes/standards. All material shall be chosen from the fresh lots and shall be free from defects like scales, seam, lamination, pitting etc., Detail of results of the tests conducted to determine the mechanical properties, chemical analysis and the details of heat treatment procedure shall be recorded on certificates. Tests shall be carried out as per applicable material standards and or agreed details.

8.1.2 All plates of thickness more than 21mm shall be ultrasonically tested.

8.1.3 All bar-stock forgings above 21mm diameter shall be ultrasonically tested.

8.1.4 All welding shall be carried out as per welding procedures drawn and qualified in accordance with the requirements of ASME Section IX/BS: 4870 and as per AWS D1.1 for structures & non pressure parts. Only qualified welders shall be deployed on the job.

8.1.5 All back-gauged welds shall be MPI / DPT before seal weld.

8.1.6 All heat treatment shall be carried out as per applicable code.

8.1.7 All codes standards or specifications with latest editions shall be referred.

8.2 Quality plan

Vendor shall submit along with the offer the quality plan for Purchase's review / comments / approval to ensure that the equipment and services, under the scope of contract whether manufactured or performed, within the Vendor's works or at his sub-vendor's premises or at the Purchaser's site or at any other place of work are in accordance with the specifications, the Vendor shall adopt suitable quality assurance programme to control such activities at all points, as necessary. Such programmes shall be outlined by the Vendor and shall be finally accepted by the Purchaser/authorised representative after discussions before



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

the award of the contract. The offer which is not complying with this requirement will not be considered for evaluation.

8.3 Quality assurance- general requirements

8.3.1 All materials, components and equipment covered under this specification shall be procured, manufactured, erected, commissioned and tested at all the stages, as per a comprehensive Quality Assurance Programme which shall be submitted along with the offer. It is the vendor's responsibility to draw up and implement such programme duly approved by the Purchaser. The detailed Quality Plans for manufacturing should be drawn up by the Vendor and will be submitted to Purchaser for approval. Schedule of finalisation of such quality plans will be finalised before award of contract.

8.3.2 Manufacturing Quality Plan will detail out for all the components and equipment, various tests/inspection, to be carried out as per the requirements of this specification and standards mentioned therein and quality practices and procedures followed by the Vendor, the relevant reference documents and standards, acceptance norms, inspection documents raised, etc. during all stages of materials procurement, manufacture, assembly and final testing.

8.3.3 The Vendor shall also furnish copies of the reference documents/plant standards/acceptance norms/tests and inspection procedure, etc., as referred in Quality Plans along with Quality Plans. These Quality Plans and reference documents/standards, etc. will be subject to Purchaser's approval without which manufacture shall not proceed.

8.3.4 These approved documents shall form a part of the contract. In these approved Quality Plans, Purchaser shall identify customer hold points (CHP), i.e., test/checks which shall be carried out in presence of the Purchaser's engineer or his authorised representative and beyond which the work will not proceed without consent of Purchaser/Authorised representative in writing. All deviations to this specification, approved quality plans and applicable standards must be documented and referred to Purchaser along with technical justification for approval and dispositioning.

8.3.5 No material shall be despatched from the manufacturer's works before the same is accepted subsequent to pre-despatch final inspection including verification of records of all previous tests/inspections by Purchaser's engineer / Authorised representative.

8.4 Site checks/tests

The Vendor shall prepare and submit detailed field quality plans in the format setting out the quality practice and procedures to be adopted for assuring quality for each equipment of material at this specification from the receipt of material at site, during storage & erection. These procedures shall necessarily include all checks/tests conducted at site for preservation, assembly, alignment, positioning of the equipment etc. The Vendor shall also furnish detailed quality procedure proposed by him for storage & preservation to the Purchaser.



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

9.0 Inspection

9.1 The complete System has to be offered for inspection by Purchaser / end-user and the vendor shall give 30 days advance notice for arranging the inspection after the system is fully ready. After inspection the equipment can be despatched only after obtaining the MDCC (Material Despatch Clearance Certificate). No material shall be despatched without MDCC.

9.2 The word “ inspector” shall mean the Purchaser and / or his authorised representative and or an outside inspection agency acting on behalf of the Purchaser to inspect and examine the materials and workmanship of the works during its manufacture or erection.

9.3 The Purchaser or his duly authorised representative and / or an outside inspection agency acting on behalf of the Purchaser shall inspect the materials and workmanship of the works during its manufacture or erection and its part of the works, if any, being manufactured or assembled at other premises or works. In case of inspection at other premises/ works, the Vendor shall obtain from the sub- vendor permission to inspect as if the works were manufactured or assembled at the Vendor’s own premises or works.

9.4 The Vendor shall give the Purchaser / inspector fifteen (15) days written notice of any material being ready for testing. Such tests shall be to the Vendor’s account except for the expenses of the inspectors. The Inspector, unless the witnessing of the tests is virtually waived, will attend such tests within fifteen (15) days of the date on which the equipment is noticed as being ready for test/inspection, failing which the vendor may proceed with test which shall be deemed to have been made in the inspector’s presence and he shall forthwith forward to the inspector duly certified test reports in two (2) copies.

9.5 Scaffolds shall be inspected and tested as per approved quality plan. The certificates and documents generated during inspection of above shall be furnished.

9.6 The Inspector shall within fifteen (15) days from the date of inspection as defined herein give notice in writing to the Vendor of any objection to any drawings and / or any equipment and workmanship which is in his opinion not in accordance with the contract. The Vendor shall give due consideration to such objections and shall either carry out the necessary modifications as called for by the Purchaser/Inspector or inform in writing to the Purchaser / inspector giving reasons therein that no modifications are necessary to comply with the contract.

9.7 The inspection by Inspector and issue of inspection certificate thereon shall in no way limit the liabilities and responsibilities of the vendor in respect of the agreed quality assurance programme forming a part of the contract.

9.8 All inspection measuring and test equipment used by vendor shall be calibrated periodically depending on its use and criticality of the test / measurement to be done. The contractor shall maintain all the relevant records of periodic calibration and instrument



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

identification and shall produce the same for inspection by Purchaser. Wherever asked specifically the vendor shall re-calibrate the measuring / test equipment in the presence of Purchaser/ Inspector.

10.0 Protection, preservation, packaging and transportation

10.1 Protection

All coated surfaces shall be protected against abrasion, impact, discoloration and any other damages. All exposed threaded portions shall be suitably protected with non-metallic protection device. The ends of all piping and conduit equipment connections shall be properly sealed with suitable devices to protect them from damage. The parts which are likely to get oxidized or corroded, due to exposure to weather, should also be properly treated and protected in a suitable manner. All primers/paints/coatings shall take into account the hot humid, corrosive & alkaline, over ground environment.

10.2 Preservation

All exposed metallic surfaces subject to corrosion shall be protected by shop application of suitable coatings. All surfaces shall be thoroughly cleaned of all mill scales, oxides and other coatings and prepared in the shop. The surfaces that are to be finish-painted after installation or require corrosion protection until installation, shall be shop painted with at least two coats of primer. *For special painting requirements refer to Annexure-I to this specification.*

10.3 Packaging and transportation

10.3.1 All the equipment shall be suitably protected, coated, covered or boxed and crated to prevent damage or deterioration during transit, handling and storage at Site till the time of erection.

10.3.2 The over dimensional consignment (ODC) w.r.t Indian road / rail conditions shall be mutually discussed and finalised during the execution of contract.

11.0 Guarantee / Warranty

The offered system shall be guaranteed for 24 months from the date on which the equipment / system is put into use (by the end user) or 48 months from the date of supply whichever is earlier against defective design, defective material usage, defective workmanship, defective packaging and forwarding.

12.0 Deviations

Deviations to specification, if any, shall be clearly spelt out in the offer stage itself. During contract/ inspection/ final erection stages, the Purchaser reserves the right to entertain or deny such deviation.



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

13.0 Exclusions

Any exclusion from scope of supply shall be clearly spelt out in the offer. Exclusion of major / critical items shall make the offer liable for rejection.

14.0 Documents to be submitted by vendor

14.1 Documents to be submitted along with the offer:

14.1.1 Product literature / catalogue and drawings in support of the offer shall be submitted in three copies along with the quotation to evaluate the offer.

14.1.2 Sectional arrangement drawing with plan, elevation, and end view along with major dimensions and weight particulars.

14.1.3 Filled in check list. (Annexure-II to this specification)

14.1.4 Weight and quantity of individual components as per the scope of supply shall be indicated in the drawing as bill of quantity / material. Also total weight of scaffold per boiler to be furnished.

14.1.5 Design Calculation:

Vendor shall submit the design calculation to satisfy the specification clause:4.5. Also, the permissible load on any scaffold vertical should be always greater than actual maximum load on that vertical due to the sum of scaffold self-weight and intended / distributed loads.

14.1.6 The quality plan for the product under supply shall be furnished along with the offer. (This will be amended in consultation with the ultimate customer/end user, if required).

14.1.7 List of Special tools and tackles.

14.1.8 List of initial spares.

14.1.9 A certificate for the components from Safety Steward/ Authority/ Body of the country of make shall be provided.

14.1.10 Document for justifying the design aspects of the offered system both from stability and safety aspects.

14.1.12 List of Deviations or no deviation declaration.

14.1.13 List of Exclusions.

14.1.14 Typical O&M manual of the offered system similar to the earlier job executed by the vendor. (Preferably that applicable for the certificate provider)

14.1.15 Erection & dismantling schedule as per clause 3.7 of this document.

14.2 Documents to be furnished after award of contract

14.2.1 Complete arrangement drawings giving particulars like:

- a) Bill of Quantity (of all individual components)
- b) Weight details of all components individually
- c) Identification marks / Numbers



Specification for Quick Erect Scaffolding System

MHS-HEQ-075

Revision No.:03

14.2.4 Packaging procedure detailing the list of components shall be despatched individually with identification and with preservation and storage.

14.2.5 Test certificates shall be furnished before despatch of components.

14.2.6 Material test certificate for all the major components.

14.2.7 Quality control / Inspection documents generated during the stages of inspection, performance inspection and final inspection in line with the final approved quality plan.

14.2.8 Guarantee certificate shall be furnished by the vendor.

14.2.9 O & M manual.

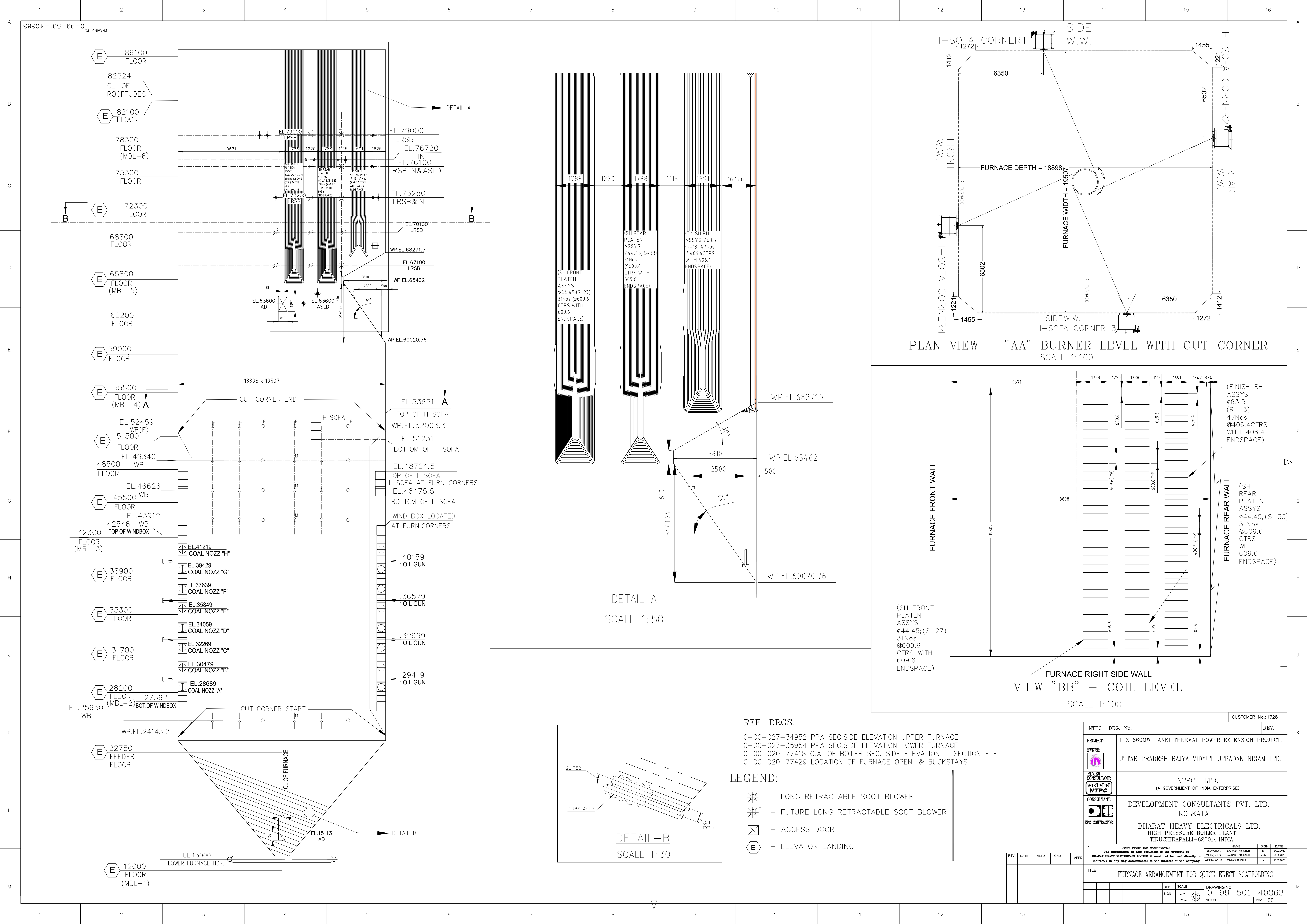
15.0 General

15.1 The language used in offer, O & M manual, Labels, drawings etc. shall be in “English only.”

15.2 For Equipment and other special requirements pertaining to the contract, refer **Annexure-I** to this specification.

15.3 **Annexure -II** is the Check list to be filled in completely by the vendor and submitted **along with the offer**. Offer with incomplete Check list is liable for rejection.

15.4 **Annexure – III (Drawing)**, Furnace arrangement for Quick Erect Scaffold, contains all details of the requirements like furnace width, depth, height, location of access / manhole doors, goose neck / furnace bottom position, elevation of burners etc.





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

- 1 Name of Project : Panki TPS (1X660 MW)**
- 2 Customer No. : 1728**
- 3 Quantity : 1 No.**
- 4 Material of construction : STEEL**
- 5 Reference Drawing No. : 0-99-501-40363 Rev 00
(Furnace arrangement for Quick Erect Scaffold)**
- 6 Man Hole (Access Door)
Opening Size in mm : 610x762mm**

	Name	Signature	Date
Prepared & Checked	Saurabh Kr Singh		23.06.2020
Approved	Srinivas Arugula		23.06.2020

Annexure-II to Specification No.:MHS-HEQ-075/Rev.03

CHECK LIST OF VENDOR'S OFFER-QES/Panki 1X660MW

<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:		

Annexure-II to Specification No.:MHS-HEQ-075/Rev.03

CHECK LIST OF VENDOR'S OFFER-QES/Panki 1X660MW

S.No.	Description	Spec.Clause No.	As per specification	Compliance / confirmation / particulars(to be filled up by vendor)	Remarks
8.4.1			Skilled		
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 intial 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			

Annexure-II to Specification No.:MHS-HEQ-075/Rev.03

CHECK LIST OF VENDOR'S OFFER-QES/Panki 1X660MW

S.No.	Description	Spec.Clause No.	As per specification	Compliance / confirmation / particulars(to be filled up by vendor)	Remarks
14.1	No.of support points		Vendor to specify		
14.2	Location of support points		Vendor to furnish		
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		

Annexure-II to Specification No.:MHS-HEQ-075/Rev.03

CHECK LIST OF VENDOR'S OFFER-QES/Panki 1X660MW

S.No.	Description	Spec.Clause No.	As per specification	Compliance / confirmation / particulars(to be filled up by vendor)	Remarks
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		
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		

Annexure-II to Specification No.:MHS-HEQ-075/Rev.03

CHECK LIST OF VENDOR'S OFFER-QES/Panki 1X660MW

S.No.	Description	Spec.Clause No.	As per specification	Compliance / confirmation / particulars(to be filled up by vendor)	Remarks
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		
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		

Annexure-II to Specification No.:MHS-HEQ-075/Rev.03

CHECK LIST OF VENDOR'S OFFER-QES/Panki 1X660MW

S.No.	Description	Spec.Clause No.	As per specification	Compliance / confirmation / particulars(to be filled up by vendor)	Remarks
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.		

Annexure C

Clause: Special Provisions for Micro and small Enterprises (MSE):

1. In case MSE vendor participating in the tender quotes within the price band of L1+15%, they will be allowed to supply the complete package requirement subject to acceptance of L1 price by MSE vendor.
2. In case of more than one such MSE, the counter offering will be to the lowest quoted MSE vendor subject to fulfilment of Point No.1
3. MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (Five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with CA certificate (Format enclosed) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.
4. Declaration of UAM number by MSE bidders is mandatory. Failing which, such bidders will not be able to enjoy the benefits as per Public Procurement Policy for MSEs Order, 2012.
5. Payment for MSE Indigenous vendors will be as per MSMED Act 2006

Certificate by Chartered Accountant on letter head

This is to Certify that M/S
(hereinafter referred to as 'company') having its registered office at
is registered under MSMED Act 2006, (Entrepreneur
Memorandum No (Part-II) dtd:.....,
Category: (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the
latest audited financial year as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost
excluding land and building and the items specified by the Ministry of Small Scale Industries vide its
notification No.S.O.1722(E) dated October 5, 2006 :
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and
furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED
Act, 2006:
Rs.....Lacs

(Strike off whichever is not applicable)

The above investment of Rs.....Lacs is within permissible limit of
Rs.....Lacs forMicro / Small (Strike off which is not applicable)
Category under MSMED Act 2006.

Or

The company has been graduated from its original category (Micro/ Small) (Strike off which is not
applicable) and the date of graduation of such enterprise from its original category is
(dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such
enterprise from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published
in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:



(Signature)

Name -

Membership number -

Seal of Chartered Accountant

BANK GUARANTEE FOR PERFORMANCE SECURITY

(Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s))

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

IFSC AND MICR CODE

Dear Sirs,

1. In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) (VENDOR CODE) with its registered office at _____² hereinafter referred to as the ' Vendor / Contractor / Supplier ', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³ valued at Rs.....⁴ (Rupees -----)/FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to% (... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

2. we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs -----⁶ (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

3. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

4. We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

5. The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

6. We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

7. We.....BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

8. The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier's liabilities.

9. This Guarantee shall remain in force upto and including.....⁷ and shall be extended from time to time for such period as may be desired by Employer.

10. This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

11. Unless a demand or claim under this guarantee is made on us in writing on or before the⁸we shall be discharged from all liabilities under this guarantee thereafter.

12. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirappalli.

13. We..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

a) The liability of the Bank under this Guarantee shall not exceed.....⁶

- b) This Guarantee shall be valid up to⁷
- c) Unless the Bank is served a written claim or demand on or before (minimum 3 to 6 months from the expiry date)⁸ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

14. We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

BANK EMAIL ID:

BANK PHONE NO:

AUTHORISED SIGNATORIES CELL PHONE NO:

BANK FAX NO:

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ CONTRACT VALUE

⁵ PROJECT/SUPPLY DETAILS

⁶ BG AMOUNT IN FIGURES AND WORDS

⁷ VALIDITY DATE

⁸ DATE OF EXPIRY OF CLAIM PERIOD

 BHEL - TRICHY	THIRD PARTY NON-DISCLOSURE AGREEMENT		Doc.No. : ISMS-04/TP/011	
			Ver. No: 3.0	Rev. No: 00
			Date : 27 - 10 - 14	

THIRD PARTY NON-DISCLOSURE AGREEMENT

I, _____, on behalf of the _____ (Name of Company), acknowledge that the information received or generated, directly or indirectly, while working with BHEL, Trichy on contract is confidential and that the nature of the business of the BHEL, Trichy is such that the following conditions are reasonable, and therefore:

I warrant and agree as follows:

I, or any other personnel employed or engaged by our company, agree not to disclose, directly or indirectly, any information related to the BHEL, Trichy Without restricting the generality of the foregoing, it is agreed that we will not disclose such information consisting but not necessarily limited to:

- Technical information: Methods, drawings, processes, formulae, compositions, systems, techniques, inventions, computer programs/data/configuration and research projects.
- Business information: Customer lists, project schedules, pricing data, estimates, financial or marketing data,

On conclusion of contract, I, or any other personnel employed or engaged by our company shall return to BHEL, Trichy all documents and property of BHEL, Trichy, including: drawings, blueprints, reports, manuals, computer programs/data/configuration, and all other materials and all copies thereof relating in any way to BHEL, Trichy 's business, or in any way obtained by me during the course of contract. I further agree that I, or any others employed or engaged by our company shall not retain copies, notes or abstracts of the foregoing.

This obligation of confidence shall continue after the conclusion of the contract also.

I acknowledge that the aforesaid restrictions are necessary and fundamental to the business of the BHEL, Trichy and are reasonable given the nature of the business carried on by the BHEL, Trichy I agree that this agreement shall be governed by and construed in accordance with the laws of country.

I enter into this agreement totally voluntarily, with full knowledge of its meaning, and without duress.

Dated at _____, this ____ day of _____, 20__.

Name

Company

Signature

/ On Bidder's office letter pad /

Self-Declaration

Enquiry No.	<u>1802000459/14</u>
Enquiry Date	<u>29.06.2020</u>

In line with Government public procurement order Number P-45021/2/2017-B.E-II dated 15.06.2017, and further modified order dt. 28.05.2018 & order 04.06.2020 issued by DPIIT

I / We hereby declare that I / We are a "Local Supplier" meeting the requirement of minimum local content (**.....%**) defined in the above government notification for the goods against above mentioned enquiry Number.

Details of location at which local value addition will be made is as follows:

Door No.	
Street / Address 1	
Street / Address 2	
District	
State	
Country	
PIN Code	

We also understand that the false declarations will be considered as breach of Integrity and liable for action.

For Company Name:

Seal:

Signature:

Date:

Place:

(Please fill all the yellow color field)