



**Tender Enquiry No. B/4066/2021/0204/V3 for the requirement of NRV with Aluminium Flap (1 ST)**

**LIST OF ENCLOSURES**

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3.	BUYER SPECIFIC TERMS & CONDITIONS OF THE TENDER (ANNEXURE-2)	03
4.	MSE CERTIFICATE	01
5.	GENERAL INSTRUCTIONS & STANDARD TERMS & CONDITIONS (GISTC) REV.06 FOR INDIGINOUS SUPPLIER	13
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<b><u>Technical Documents</u></b>		
	<b><u>Document</u></b>	<b><u>Number of pages</u></b>
1.	SPECIFICATION-ST47034 Rev-02 ST47025 Rev 02 ADDENDUM to ST47025 Rev-01	10
2.	BHEL STANDARD QP FORMAT	02
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PPX-BOI DEPARTMENT  
BHARAT HEAVY ELECTRICALS LIMITED  
HEEP: HARDWAR-249 403 (Uttarakhand)  
FAX: +91 1334 226084/226462  
TEL: +91 1334 28 1707/5773

Enquiry No.: B/4066/2021/0204/2  
Item : NRV with Aluminium Flap  
Project : 1x660 MW Sagardighi

### INSTRUCTION TO BIDDERS AND SPECIAL TERMS OF THE ENQUIRY

#### 1. SCOPE OF ENQUIRY

Sealed Bids are invited from bidders to supply, fabrication, pre-shipment testing at manufacturer's works, proper packing for transportation, delivery at plant site as per detailed specifications of NRV with Aluminium Flap for 1X660 MW Sagardighi project.

#### 2. PROJECT INFORMATION

1.Project Name	1x 660 MW Sagardighi STPP
Consignee Address	Deputy General Manager, (I/C-Projects), Sagardighi Thermal Power Projects, P.O.-Manigram, Dist. Murshidabad PIN-742237, WEST BENGAL, INDIA
Tax Structure	GST Applicable

#### 3. Brief Description of the requirement (For details refer price checklist)

Sl. No.	Project	Material Code & Item Description	Total Quantity	LOT Quantity	Date for Supply Completion
1	Sagardighi WBPDC, Unit-5 660MW	Material Code W90313137684 NRV with Aluminium Flap, NB 200 SPEC: ST 47034 & ST 47025 REV: 02 & its ADDENDUM <b>Note: 1 SET = 2 Nos.</b>	01 ST	01 No. (Lot-1)	<u>30.11.2022</u>

#### 4.0 PRE-QUALIFICATION REQUIREMENT (PQR):

Pre-Qualification requirement is mentioned in Annexure-A. Kindly ensure submission of documents in support of PQR (As applicable). Offer submitted by bidders will be scrutinized with respect to pre-qualification requirement first. Technical offer of the bidders not meeting Pre-qualification requirement will not be scrutinized.

**Important Note:** Bidders should ensure completeness and correctness of all supporting documents of PQR along with their offer. Not more than 30 days (After Opening of Techno-commercial offers) will be allowed to bidders for completing PQR documents. PQR review will be closed within 30 days of opening of techno-commercial Bids. Offers of Bidder / Bidders, who do not meet PQR i.e. do not complete the PQR documentation within 30 days of opening of techno-commercial bid, are likely to be ignored and no-further correspondence may be entertained thereafter.

#### 5.SUBMISSION OF OFFER

- Bidders are advised to study all the tender documents carefully. Any submission of tender by the bidder shall be deemed to have been done after careful study and examination of the tender documents and with full understanding of the implications thereof. The specifications and terms & conditions shall be deemed to have been accepted unless otherwise specifically commented upon in 'Deviation' sheets by the bidder in his offer. Non-compliance with any of the requirements and instructions in the Tender Enquiry may result in rejection of the tender.
- Name of vendor's dealing person with Contact No(s), Email ID and Address of correspondence shall be provided in the bid.
- Tenders are to be submitted in **Two Parts** and **Part-I** (Techno-Commercial Bid) will be opened first. The offers are to be submitted on or before the Due Date and time, as per NIC enquiry.

#### 1. MAKE IN INDIA



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“As per public procurement (Preference to Make in India) circular Dtd. 04.06.2020 & corporate circular AA: SSP : PPP:MI dated 24.07.2020 following is to be the part of all NIT i.e.

“For this procurement, the local content to categorize a supplier as a class I local supplier/class II local supplier/Non local supplier and purchase preference to class I local supplier, is as defined in Public Procurement (Reference 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 this NIT”.

Make in India declaration certificate is enclosed. Suppliers are proposed to submit signed & stamp copy of the same along with their offer.

## 2. Evaluation Criteria

Evaluation will be done on total landed cost of project basis i.e. considering total landed cost of complete requirement of both project up to site.

## 3. OFFER VALIDITY

The offer is to be submitted with a validity of 120 days from the date of opening of techno-commercial offers. BHEL will reserve the right to reject the offer, quoting validity less than 120 days.

## 4. PRE BID CLARIFICATION/ PRE BID MEETING

- Please note that as per BHEL’s Policy, we cannot allow Price impact for the requirement / scope of supply, which is a part of specifications of our tender enquiry. Hence please read all specification / documents thoroughly and submit your offer as per specifications of tender enquiry.
- In case of any confusion / non-clarity on any of the clause / requirement of specification, please clarify the same from BHEL before submission of offer. Pre-bid meeting can also be arranged on bidder’s request for clarification of techno-commercial scope.
- No deviation & request regarding non-clarity / contradictory conditions / ambiguity of specifications would be entertained after opening of techno-commercial offers. Further no price impact would be allowed for the requirement which is already part of the specifications of the tender enquiry, after opening of techno-commercial offers.
- The prices are to be quoted on firm basis. BHEL will reserve the right to reject the offer of the vendors not quoting the prices on Firm basis.
- Bidders shall submit their techno-commercial queries within 10 days of floating the NIT. Clarifications would be arranged within next one week. Bidders may also request for pre-bid meeting for techno-commercial clarification within one weeks of floating the NIT.

## 5. DEALING WITH BANNED SUPPLIERS/ CONTRACTORS IN BHEL

Offers of the bidders, who are on the banned/hold list, as also the offers of the bidders who engage the services of the banned/hold firms, shall be rejected. The list of banned/hold firms is available on BHEL website [www.bhel.com](http://www.bhel.com).

## 6. Offer shall be submitted in two parts- Part-1 & Part-2

### PART-I: PRE-QUALIFICATION REQUIREMENT (PQR)/ TECHNICAL/ COMMERCIAL BID (IN ONE ORIGINAL AND INK SIGNED ON EACH PAGE OF THE OFFER)

Comprising of following documents:

- a. Bidders are required to furnish requisite details in the formats specified in bidding documents for meeting the stipulated **Pre-Qualification Requirements (PQR)** along with all supporting documents like copies of End User Certificates, Purchase Orders and Contract Agreements etc.
- b. Complete Technical offer with relevant drawings/ documents /QP etc. (as per detailed specifications)
- c. Endorsed copy of this document (i.e. **Instruction to bidders special conditions of the NIT, General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)- As applicable for Indigenous or foreign bidder**) in original duly signed and stamped by the bidder.



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- d. Commercial Terms & Conditions
- e. Any Deviation with reference to NIT to be laid down on separate sheet.
- f. Un-Priced replicas of Price Bid without prices.
- g. **Supplier Registration Form:** Online Registration Portal is operational in BHEL. Bidders not registered at BHEL, Hardwar for this item, have to apply through Online Registration portal, <https://supplier.bhel.in/>. All credentials and/or documents duly signed and stamped related to registration has to be uploaded on the website and submit the application for registration. Application reference number of BHEL supplier registration portal shall be mentioned in bid documents.
- Note: Suppliers who are already registered at BHEL, Haridwar in the PMD for this item are exempted for submitting the Supplier registration form.

**PART-II: PRICE-BID:**

The price Bid (with prices) for the complete scope as specified in price schedule Annexure-I shall be submitted. The Part-I & Part-II bids shall be individually sealed and super scribed as indicated above and shall be enclosed further in the envelop duly sealed and super scribed as:

“TENDER FOR (ITEM NAME) AGAINST TENDER NO. ----- DUE ON -----CONTAINING PART-I & PART-II. Vendor’s full name and address should be clearly mentioned on the envelope.

**7. IMPORTANT NOTE:**

**INSTRUCTION TO BIDDERS & SPECIAL TERMS OF ENQUIRY are to be read and complied along with GISTC (for Indian Bidders as applicable). A signed & stamped copy of these documents as a token of acceptance is to be submitted along with the offer.** In the event of contradiction of terms and conditions mentioned, the order of preference shall be INSTRUCTION TO BIDDERS & SPECIAL TERMS OF ENQUIRY followed by GISTC (General Instructions and Standard Terms & Conditions against Tender Enquiry).

Deviations (if any) are to be listed separately in deviation sheet. Please note that in case, no- deviation sheet is received along with the offer, it will be considered that all terms and conditions mentioned in above documents are acceptable to the bidder and your offer will be processed accordingly.

**PART-I (as per clause 8 above) (Techno-Commercial bid with PQR)** will be opened on Due Date and time specified in the Enquiry, or extension thereof, in presence of bidders who may like to attend. Incomplete offers are liable to be rejected.

**Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements mentioned in our Enquiry as stipulated in clause 4 above (If applicable)**

All correspondence thereof, shall be addressed to the following persons:

<p><b>Mr. Manoj Kumar</b> <b>Designation: Manager (PPX-BOI)</b> 4<sup>th</sup> Floor, Main Administrative Building HEEP, BHEL Hardwar- 249403 Uttarakhand, India Email ID: manojy@bhel.in Tel: +91 1334 28 5773</p>	<p><b>Mr. ADESH</b> <b>Designation: Adnl Engineer (PPX-BOI)</b> 4<sup>th</sup> Floor, Main Administrative Building HEEP, BHEL Hardwar- 249403 Uttarakhand, India Email ID: adesh@bhel.in Tel: +91 1334 28 1707</p>
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**BHARAT HEAVY ELECTRICALS LIMITED, HARIDWAR**

STE-TL ENGINEERING DEPARTMENT

**PRE-QUALIFICATION REQUIREMENT  
NRV WITH ALUMINIUM FLAP**DOCUMENT NO.  
TL/NRV/PQR/20200002  
Rev:00 Dt:13.11.2021**Description:**

These valves are single plate (Material-aluminium) type valve and are installed in horizontal run of pipe after each vapour exhauster to prevent the backward flow of air+steam mixture in case of vapour exhauster is under maintenance.

**Mandatory requirement for Pre-Qualification:**

1. The vendor should have successfully designed, manufactured, tested & supplied of NRV with aluminum flap valves. Vendor should have supplied one (1) no. in at least one power or process plants in last seven (7) years from the date of issuance of enquiry with following technical details mentioned in table-1.

**Table-1**

<b>Valve Type</b>	Single Plate Check/NRV Valve
<b>Valve Size Range</b>	NB200 & above
<b>Body Type</b>	Wafer
<b>Valve Rating</b>	CL150 & above as per ASME B16.34 or equivalent
<b>Valve Body Material</b>	Cast Steel-A216Gr.B or higher grade
<b>Flow Medium</b>	Air+Steam Mixture

2. The vendor should furnish the following documents in line with criteria given in above **sl.no.1**.
  - a. Executed unpriced Purchase order (P.O.) should not be older than seven (7) years from the date of issuance of enquiry.
  - b. Dispatch document w.r.t above executed P. O. i.e. Approved valve GA drawing & data sheet, Delivery challan, Tax invoice, Inspection report & Lorry way bill for our review.
  - c. Those who have supplied above mentioned valve to BHEL-HARIDWAR to furnish only P.O. ref. for our review.

**Note: -**

1. BHEL reserves the right to verify the information submitted by vendor. Submission of false/incorrect information shall lead to rejection of offer.
2. BHEL reserves the right to ask for more pertinent information /documents / clarifications. Vendor shall provide this information to BHEL in a timely manner so that project schedule doesn't hamper.
3. All the documents furnished to BHEL shall be in Hindi/English language only. If the documents are not in Hindi/English, then they must be accompanied with duly certified Hindi/English translations of the same.

<b>Prepared By</b> SUNIL KR. SHARMA Dy. Engineer/TL <i>Sunil Sharma</i> 13.11.21	<b>Checked By</b> ANIL KUMAR Sr. Engineer/TL <i>Anil Kumar</i> 18/11/21	<b>Approved By</b> S.K SONKAR Sr. Manager/TL <i>Sankar</i> 18/11/2021
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**Buyer Specific Special Terms and conditions**  
**Item Name: NRV with Aluminium Flap, Projects: Sagardighi**

Sl. No.	Terms	Description	Your confirmation
1.	<b>Confirmation to General Instructions and standard terms &amp; conditions</b>	<p>Please confirm each clause of following documents: -</p> <ol style="list-style-type: none"> <li>1. General Instructions and standard terms &amp; conditions for bidding against tender enquiry (GISTC Version June'2021 Rev 06).</li> <li>2. Special terms &amp; conditions of tender enquiry (Annexure-2).</li> <li>3. Instructions to Bidders.</li> <li>4. PQR (Technical)</li> </ol> <p>Deviation to conditions mentioned in above documents, if any, shall be submitted along with offer in separate documents.</p> <p>Please note that in case, deviation sheet is not received along with the offer, it will be considered that all terms and conditions mentioned in above documents are acceptable to the bidder and your offer will be processed accordingly.</p>	
2.	<b>Evaluation criteria</b>	Evaluation will be done on the basis of total landed cost to BHEL, with cost involved for delivery up to BHEL Sagardighi Project site (considering material cost, taxes & duties, Freight etc.).	
3.	<b>Basis of quotation</b>	<p>Kindly Confirm that material prices have been quoted on Ex-Works with freight Pre-paid up to destination basis. The goods can be dispatched through any BHEL approved transporters having their branch at Haridwar. The names and addresses of transporters approved by IBA as well as BHEL are posted at our website <a href="http://www.hwr.bhel.com">www.hwr.bhel.com</a> .</p> <p>Pls. note that, if you dispatch the material by any BHEL un-approved transporter then you will be required to furnish the MRC (Material Receipt Certificate) from Project Site for processing of your invoice. No demurrage charges would be borne by BHEL.</p> <p><b>Please mention separately Packing and Forwarding, Freight charges in terms of % of basic prices (if any) and mention specifically that it is inclusive or not in the quoted price. In case the offer is silent regarding these charges, the same would be considered to be inclusive in the offer. Kindly confirm.</b></p> <p>Applicable GST etc. should be indicated separately and clearly in the quotation, else it will be considered that the offer is inclusive of same.</p> <p>Transit insurance would be arranged by BHEL. Please send your offer keeping this in view.</p>	
4.	<b>Evaluation currency</b>	The evaluation currency for this tender shall be INR.	
5.	<b>Engineering Document/ Document approval</b>	Drawings/Data sheets/Documents/ Quality Plan etc, as called for in the specifications shall be submitted for approval to BHEL for BHEL/customer approval within 30 days of purchase order. Any delay in delivery on account of late submission of drawings shall be to vendors account. BHEL will arrange the approval of the drawings/data sheets/ documents within 30 days of their receipt provided those are complete in all respect. Delays in approval shall be dealt on merit basis.	
6.	<b>Payment terms</b>	<b>100% payment after receipt of Material/Item at Site (i.e. Sagardighi Site)</b>	
7.	<b>Delivery</b>	Please quote your lot wise delivery completion period in line with delivery schedule mentioned in bid. In case it is not possible to meet the lot date, you may quote your best possible delivery completion period in number of	

		weeks/months from the date of Purchase Order.	
8.	<b>Manufacturing clearance from BHEL/End customer</b>	LOT WISE/UNIT WISE MANUFACTURING SHALL BE START ONLY AFTER LOT WISE/UNIT WISE MANUFACTURING CLEARANCE FROM BHEL/END CUSTOMER. PLEASE CONFIRM.	
9.	<b>Liquidated Damages</b>	Liquidated Damages (LD) for Late Deliveries shall be applicable @ 0.5% per week or part thereof on the value of respective delayed supplies subject to a maximum of 10% of the value of respective delayed supplies. Value of delayed supplies will mean the gross value to the vendor (Before LD) against such supplies excluding taxes and duties.	
		The date of LR (Lorry Receipt) would be treated as the date of delivery for penalty purposes	
		In case of any deviation to the above penalty clause, BHEL reserves the right to load the offers to the extent to which it is not agreed by vendors (at offered value).	
10.	<b>MDCC clause</b>	Please note that, material shall be dispatched only after issue of Material dispatch clearance certificate (MDCC) end customer. For issue of MDCC, vendors are required to submit all test certificates (TC) and inspection report of third party (IR) to BHEL. After review & acceptance of the quality document, BHEL will forward the same to end customer for issuance of MDCC. Material shall be dispatched within 7 days from the the date of issuance of MDCC.	
11.	<b>Packing Instructions</b>	1. Packing of Sagardighi material shall be indicated by vendor Box No. – BHEL/HWR/BOI/016-020. 2. Vendor to submit packing list (box-wise) for BHEL review before dispatch.	
12.	<b>Quality Requirements &amp; Inspection</b>	1. Please confirm acceptance for QAP No. QA/BI/QP/117 Rev 00 and submit endorsed copy of this QAP along with offer. 2. Please confirm that inspection shall be by BHEL Nominated inspection agency (TUV SUD) and end customer as per customer's approved quality plan. 3. Please note that BHEL will pay directly to BHEL's nominated TPI. 4. Inspection call shall be raised by the vendor at least 07 days in advance of readiness of material. If inspection is not attended by the inspection agency within 07 days of inspection call, delivery shall be re-scheduled accordingly.	
13.	<b>Customer Approval</b>	Part-2 / price bid will be opened only for customer approved vendor. Credential of un-approved vendor will be submitted to customer for vendor approval. if such vendor not approved by customer, their offer will be rejected.	
14.	<b>Guarantee</b>	Guarantee/ Warranty Period: 24 months from the date of commissioning or 36 months from dispatch, whichever is earlier. Guarantee certificate is to be provided along with shipping / dispatch documents. Please confirm.	
15.	<b>Technical Requirements</b>	Material specification as per Spec ST 47034 & ST47025 rev 02 & its ADDENDUM only.	
		Painting of the material shall be " Primer paint: Epoxy based Zinc rich primer paint 1 coat of 35 microns, Intermediate Paint: Epoxy TiO <sub>2</sub> Pigmented polyamide cured paint (1 coat 70 microns), Finish (Final) paint: Aliphatic Acrylic 2 pack polyurethane finish paint ,2 coats of total 75 microns), Total Paint DFT- 180 microns(Minimum), Paint shade shall be RAL-Grey 9002.	
		Comply PQR for NRV with Aluminium Flap, Doc No. TL/NRV/PQR/20200002 Rev: 00 dated 13.11.2021.	
		<b>Required quantity is defined as set (ST) and one ST is equal to 2 Nos. of NRV</b>	

		<b>with Aluminium Flap.</b>	
<b>16.</b>	<b>Arbitration :</b>	SETTLEMENT OF DISPUTES/ARBITRATION: In all cases of dispute the mater shall be referred for ARBITRATION by sole arbitrator to be appointed by the Unit Head of Bharat Heavy Electricals Ltd., at HARIDWAR. The award of the Arbitrator shall be final and binding on both the parties. The place of Arbitration shall be <b>Haridwar</b> . JURISDICTION: The courts of Haridwar, India, shall have exclusive jurisdiction.	
<b>17.</b>	<b>Risk Purchase:</b>	In case of abnormal delays (beyond the maximum late delivery period as per Penalty clause) in supplies /defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere /alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract.	
<b>18.</b>	<b>Additional Conditions for Assessment</b>	1. BHEL reserves the right to consider / Not-consider the offers based on the evaluation of documents submitted for the Pre-Qualification Criteria (PQR). 2. BHEL also reserves the right to have on-site assessment of the facilities at supplier's works during the bid evaluation.	
<b>19.</b>	<b>Offer Validity</b>	<b>Please confirm offer validity for 120 days from the date of Part-1 opening.</b>	



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Indian Bidders (Version June-2021, Rev: 06)

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### 1. GENERAL.

These general terms & conditions shall apply to all the Tender Enquiries, notice inviting tenders, request for quotations concerning the supply of goods and / or rendering of services to Bharat Heavy Electricals Ltd., HEEP, Haridwar (hereinafter referred to as BHEL or the Purchaser). In case of placement of order these conditions will become part of Purchase Order (P.O) until unless the deviations are specifically agreed by BHEL.

### 2. ORIGIN OF QUOTATION.

- a) The quotation should preferably be from the principal bidder. However tender specific authorized registered dealer/agent can also submit the bid on their behalf, failing which the quotation is liable to be ignored. BHEL prefers to deal directly with the principal manufacturers.
- b) An agent cannot quote on behalf of more than one principal in the same Tender Enquiry.

### 3. SUBMISSION OF TENDER.

- a) Bid / Quotation must be enclosed in sealed cover on which tender enquiry number and the due date MUST BE written and be invariably sent under REGISTERED POST / SPEED POST / COURIER / Dropped in the Tender Box: addressed as follows:

Quotation against Enquiry No. \_\_\_\_\_

Dated: \_\_\_\_\_

Due on: \_\_\_\_\_

To,

**THE HEAD OF MATERIALS MANAGEMENT,  
Heavy Electrical Equipment Plant,  
Bharat Heavy Electricals Limited,  
HARIDWAR-249403 (Uttarakhand), INDIA.**

- b) TENDER ROOM is located at: Room No. - 415, 4<sup>th</sup> Floor, Main Admin. Building, BHEL-HEEP, Haridwar.

**## Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.**



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Indian Bidders (Version June-2021, Rev: 06)

- c) In case of Three / Two Part Bid, technical bid containing technical offer, duly signed and un-priced copy of the Price Bid should be kept in one envelope. Price Bid containing only the price should be kept in a separate envelope. All envelopes indicating Part-1 or Part-2 or Part-3 as the case may be to be put in a bigger envelope. Please note that un-priced bid should be the exact replica of price bid but without prices.
- d) The bid / quotation must be posted before due date, keeping allowance for postal transit time. Quotations sent by any mode but not received in time will be ignored. Tender received through authorized E-mail is also acceptable. However, in time submission of tender in tender box shall be the responsibility of the bidder, sent through any mode. Documents submitted with the offer / bid shall be signed and stamped in each page by authorized representative of the bidder.
- e) Any additional documents submitted by supplier / bidder, during processing of registration application / tender or after placement of order shall not be accepted unless it is submitted with forwarding letter and duly signed and stamped.
- f) The bids of the bidders who are on the banned list and also the bids of the bidders, who engage the services of the banned firms, shall be rejected. The cutting / overwriting in the bid / offer must be duly attested by the signatories to the bid. The list of firms banned by BHEL is available on BHEL web site [www.bhel.com](http://www.bhel.com).
- g) Being PMD vendor, if you are not quoting against this tender enquiry, please send your regret letter positively for our reference with valid reasons for not participating in the tender enquiry. Repeated lack of response on the part of bidder may lead to deletion such PMD vendor from BHEL's approved vendor list.
- h) The bidders will submit Integrity Pact, duly signed by its authorized signatory, along with their bids wherever estimated tender value is Rs. 2 Crore or more.
- i) In case of open tender, technically qualified unregistered bidders may apply online for registration through <http://www.bhel.com/index.php/vender>.
- j) BHEL reserves the right to award tendered quantities among more than one bidder (after acceptance of L1 price by the other bidders). BHEL can also consider awarding of part of the tendered quantity to other than L-1 bidder at L1 counter offered rates, if the quantity offered by the L-1 bidder is less than the quantity tendered for.
- k) In case of e-Tendering (Online bidding through e-portal), offline bid submitted in hard copy or in any other form by the vendor / supplier will not be accepted and will be rejected out rightly. Only e-portal bid will be accepted.

#### 4. TENDER OPENING.

Tender opening is scheduled to start in the Tender Room at 2:00 PM, on the due date. Therefore, bid / quotations must reach this office / tender Box latest by 1:45 PM on due date. Only participating bidders are allowed to attend tender opening. **TENDERS RECEIVED AFTER THE SPECIFIED TIME OF THEIR 'SUBMISSION' WILL BE TREATED AS LATE TENDERS AND SHALL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES.** The bidders or their authorized representatives may be allowed to attend tender opening if duly authorized by their principals, through a tender specific letter on that particular day. General authorization letter is not acceptable.

***Note: - Foreign bidders willing to attend the bid opening has to provide the requisite documents to the concerned Purchase executives for arranging gate pass for them.***

#### 5. SPECIFICATION, DRAWINGS & STANDARD.

- a) Bidders must give their detailed specification in the quotation along with relevant technical literature / catalogue etc. against the tender enquiry.
- b) The Bid should be accompanied with relevant copies of catalogues, drawings or specification as per tender enquiry.

## Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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If these documents are not furnished, the offer is liable to be rejected.

- c) Wherever national / international (N/IN) standards are referred, the latest N/IN standards are to be followed. Mention year & date of standard revision that shall be followed for the supply.
- d) All Drawings and Standards are proprietary of BHEL. It must not be used in anyway detrimental to the interest of BHEL or without permission of BHEL.

### 6. PRICE SCHEDULE.

- a) Kindly quote your prices in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 status.
- b) Prices quoted should not be more than the prices quoted to any other BHEL units / offices / divisions. Vendor to submit copy of latest Purchase Order placed by any unit of BHEL for similar items in the technical bid. In case no order has been placed on such items, specific confirmation that no order has been placed on such items should be provided.
- c) Prices should be quoted on F.O.R. Destination basis. Transit insurance shall be arranged by BHEL and not to be included in the prices. The offers quoted on other than F.O.R destination basis may result in non-consideration of such bids.
- d) In case BHEL accepts the EX-Works prices, such offers will be loaded by 1.5% of EX-Works value towards freight or with actual freight charges as per BHEL freight rate contract whichever is higher.
- e) In case of Indigenous items covered by DGS & D Rate Contract, the bidders should submit latest valid copy of the rate contract along with bid / quotation
- f) Applicable **IGST / CGST / SGST** and any other statutory levy should be indicated separately and clearly in the bid / quotation.

- g) Bidders can dispatch goods through any Indian Bank Association approved transporters having their branch at HARIDWAR / destination. If material is dispatched through other than Indian Bank Association approved transporter, material to be delivered on door delivery BHEL Stores basis.
- h) In case of dispatch of material through any other unapproved transporter, payment shall be made only after receipt of material and any additional charges payable to the transporter shall be to the bidder's account.
- i) Any demurrage / godown rent payable to the transporter / or to godown's owner due to any delay attributed by the supplier shall be recovered from supplier's account.
- j) Currency of Evaluation shall be INR.

**NB: Financial evaluation of L1, L2 .....Status will be on the basis of Landed Cost to BHEL.**

### 7. REVERSE AUCTION.

**Wherever RA is declared in the special terms and conditions of tender enquiry, following shall be applicable and Bidders to confirm the same:**

"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on [www.bhel.com](http://www.bhel.com)) for this tender. RA shall be conducted among all the 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."

### 8. DELIVERY TERMS.

- a) Goods shall be delivered on 'FOR Destination' basis to the named destination unless otherwise called for in the tender enquiry.
- b) Loading on account of 3rd party inspection charges in case of Indian bidders shall be 0.20%.



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### 9. LIQUIDATED DAMAGES (LD) FOR LATE DELIVERY.

#### a) Where items of Purchase Order are independently usable.

Liquidated Damages (LD) for Late Deliveries shall be applicable @0.5% per week or part thereof on the value of respective delayed supplies subject to a maximum of 10% of the value of respective delayed supplies. Value of delayed supplies will mean the Gross Value payable to the vendor (Before LD) against such supplies excluding taxes and duties.

#### b) Where the total items are required for a main equipment and items are interdependent.

Liquidated Damages (LD) for Late Deliveries shall be applicable @0.5% per week or part thereof on total value of Purchase Order subject to maximum of 10% of the total value of Purchase Order. Purchase Order value for this purpose shall be the Total Gross Value payable to the vendor (Before LD) excluding taxes and duties.

#### c) Bidders are requested to quote the best delivery meeting the delivery requirements. BHEL reserves the right to reject the offers not meeting BHEL's delivery requirement.

#### d) Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone.

#### e) Bidder shall deliver the goods in the manner and schedule agreed under the terms and conditions of Purchase order.

#### f) **DELIVERY IN CASE OF REJECTION:** In case the material is rejected, then date of replacement will be considered as the actual date of delivery.

#### g) **DELIVERY AGAINST BANK DOCUMENTS:** In case payment terms quoted by bidder are documents through bank, and the delivery terms being "FOR Haridwar / FOR Transporter Go-down" then date of delivery will be date of intimation by transporter / bidder of delivery of material at Haridwar for the LD purpose.

#### h) Where the payments are through bank, the documents may be presented for negotiation to BHEL authorized / nominated bank.

i) Payment of Liquidated Damages (LD) shall not in any way relieve the vendor from any of its obligations & liabilities under the contract.

### 10. PAYMENT TERMS.

a) BHEL's standard payment term is Payment after receipt and acceptance of materials / items at HEEP, BHEL-Store or at desired destination unless otherwise specified in Special Terms attached to the tender enquiry.

b) BHEL reserves the right to accept or reject the offer of the bidder who quotes the payment term other than BHEL's standard payment term.

c) Loading on account of deviation in payment terms shall be done as per extant rules of BHEL-Haridwar.

d) 100% payment along with taxes, freight & insurance will be made after receipt and acceptance of material and within 75 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order. In case any discrepancy found in the documents, BHEL will notify the same to vendor within 7 days of receipt. Vendor has to clear all the discrepancies in one go within 7 days thereafter else the payment of vendor may get delayed.

e) For MSEs (covered under MSME Act) which are registered and periodically renewed with BHEL, the payment will be made within 45 days or as prescribed in the relevant act.

f) Adherence to the above time schedule of payment is contingent upon Vendor complying with GST Rules w.r.t availment of Input Tax Credit by BHEL.

g) In case GST credit is delayed / denied to BHEL, due to non / delayed receipt of goods and / or tax invoice or expiry of the timeline prescribed in GST Law for availing such ITC, or any other reason not attributable to BHEL, GST amount shall be recoverable from Vendor along with interest levied / leviable on BHEL.

h) The taxes and duties that are reimbursed would be the ones applicable as on the contractual Purchase order delivery date or the amount actually paid whichever is less.



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i) **The loading criteria for the different payment terms shall be as under;**

Payment Terms	Days of Loading
After Receipt & Acceptance of material within 75 days of supply.	<b>No Loading</b>
Against Delivery at BHEL-Stores Haridwar.	<b>45</b>
Against documents through bank (CAD):	<b>45</b>
Letter of Credit (LC)	<b>120</b>
Usance LC	No Loading if usance period is > 120 Days.
	Loading of days' difference i.e. difference between 120 days and usance period if the usance period is < 75 days.
Advance	Delivery Period + 120 Days - Advance Payment Days.

### 11. TAXES & DUTIES.

- a) The bidder to specify in their offer (part 1 bid) the category of their registration under GST like Registered, Unregistered and composite dealer.
- b) The provisional GST registration number of Bharat Heavy Electrical Ltd, Heavy Electricals Equipment Plant, Ranipur, Haridwar is "05AAACB4146P1ZL" with state Code as "05" and State Name as "Uttarakhand".
- c) Please quote our provisional GST registration number in all invoices raised for supply of goods and services under GST regime and also ensure filing of timely return and payment of tax and compliance of other applicable provisions on supplier under GST regime.
- d) No GST will be reimbursed to unregistered or composite dealer. In the event, any GST is quoted by composite dealer, the same shall be added to the cost of supply in evaluating the bid.
- e) Since, input credit of GST will be available to BHEL-Haridwar only after correct filing of return and payment of applicable GST by supplier, reimbursement of GST shall be made by

BHEL-Haridwar on matching of vendor inputs at GST portal, ensuring availability of input credit to BHEL Haridwar. Payment of GST will be made to vendor after matching of input credit and vendor to ensure submission of their invoices along with consent to accept payment of tax after such matching in all cases where bills are submitted directly to BHEL-Haridwar or through bank or under LC or through any other mode.

- f) In the event of any disallowance of input credit or applicability of interest or any other financial liability arises on BHEL-Haridwar due to any default of supplier under GST, such implication shall be to supplier's account.
- g) In the event of any change in the status of the vendor after the submission of the bid but before the supply, GST applicable at the time of supply or in the bid, based on the registration status of the vendor, whichever is lower shall be payable.
- h) Where ever applicable If PAN (Permanent Account Number) of the recipient is not available, income tax is deductible either at the normal rate or at the rate of 20 percent, whichever is higher as per Section 206AA of Indian Income Tax Act 1961.
- i) The bidder shall clearly indicate HSN (*Harmonised System Nomenclature*) / SAC (*Service Accounting Code*), its description and applicable rate of GST for each item in his techno-commercial bid.
- j) Statutory Variation in Taxes & duties as applicable at the time of supply shall be payable. However, in the event of no change in law but bidder quoting certain tax structure in bid document which is lower than the applicable one, such amount shall be the maximum amount of tax that can be claimed by bidder.
- k) **IMPORTED GOODS OFFERED BY INDIAN BIDDERS AGAINST DEALER INVOICE:** Wherever the material being offered is imported, the bidder must quote the prices inclusive of IGST. The rate and value of IGST as included in the price must be indicated separately. In case quantum of IGST is not mentioned by the bidder the same will not be considered for



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evaluation. However, bidder will have to pass on the benefit of IGST to BHEL at the time supply.

- l) In case of directly dispatchable items to Customer's Site, BHEL-Haridwar will inform the GST registration number of the respective customer which must be mentioned on the vendor's invoice. Vendor to ensure availability of such information from BHEL-Haridwar before dispatch of any material. However, while filing GSTN-1, BHEL Haridwar GSTN number to be quoted.

Note: - Vendors must ensure compliance of all the applicable rules and procedure as envisaged in the GST Regime. Any loss to BHEL-Haridwar due to fault / non-compliance by the vendor will be to the vendor's account.

### 12. BANK GUARANTEE.

In case the bank guarantees are required to be deposited towards security deposit/performance guarantee or for any other purpose as per the terms of this tender enquiry, such bank guarantees of the requisite value in the denominated currency of the purchase order should be from one of the Indian branch of BHEL consortium banks and the bank guarantee should be in the proforma as prescribed by BHEL. The proforma of bank guarantee and the list of consortium banks are displayed at BHEL website [www.bhelhwr.co.in](http://www.bhelhwr.co.in). However, in case the bank guarantee is not from BHEL consortium banks, then the bidder has to get the bank guarantee confirmed from one of the Indian branch of BHEL consortium banks and the bank charges for such confirmation will be borne by the bidder.

### 13. GUARANTEE / WARRANTY AND CORRESPONDING REPAIRS / REPLACEMENT OF GOODS.

Goods shall comply with the specifications for material, workmanship and performance. Unless otherwise specified, the warranty shall be for a period of 18 months from the date of receipt. If the delivery is found non-compliant during the warranty period, leading to rejection, the Seller shall arrange free replacement / repair of goods, within one month from the date of intimation or any mutually agreed period. The rejected goods shall be taken away by the Seller at his cost and

replaced on Delivered Duty Paid (DDP) (FOR - BHEL Stores / designated destination basis) within such period. In the event of the Seller's failure to comply, Purchaser may take action as appropriate, including Repair / Replenish rejected goods & disposal of rejections, at the risk & cost of the Seller. In case the defects attributable to Seller are detected during processing of the goods at BHEL or at our subcontractor's works, the Seller shall be responsible for free replacement / repair of the goods as required by BHEL.

- b) **RETURN OF REJECTED MATERIAL FOR REPLACEMENT:** The bidder shall have to pay 5% incidental charges while taking back supplied material if it is found rejected on receipt. The rejected material shall be sent back only after receipt of replacement / submission of BG / refund of amount paid.

### 14. QUALITY REQUIREMENT.

Your bid / quotation should have specific confirmation regarding meeting all our quality requirements such as. (i) Test Certificate (TC), (ii) Guarantee Certificate (GC) / Warranty Certificate (WC), (iii) Quality Plan (QP) (if applicable); and (iv) Pre-Dispatch Inspection at your works (if applicable).

### 15. VALIDITY.

The quotation should be valid for a minimum period of 90 days effective from the date of opening of tender, unless otherwise specified in the tender enquiry.

### 16. RIGHT OF ACCEPTANCE.

- a) **BHARAT HEAVY ELECTRICALS LIMITED HARIDWAR** reserves the right to reject any or all the bids / quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced quantity without any extra charges.
- b) Any discount / revised offer / bids submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of offer / bid submission (Part-1). Conditional discounts shall not be considered for evaluation of tenders.



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- c) Unsolicited discounts / revised offers / bids given after Part-1 bid opening shall not be accepted. No change in price will be permitted within the validity period asked for in the tender enquiry.
- d) In case of changes in scope and / or technical specification and / or commercial terms & conditions having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for then the latest price bid shall prevail. However, in both situations, original price bid will be necessarily opened.
- e) The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned after finalization of contract. EMD shall be forfeited in the event of bidder opting out after tender opening.
- f) BHEL reserves the right to short close the existing Purchase Order / Rate Contract / Work Order or any extension thereof at any stage.

### 17. TRANSIT INSURANCE.

- a) Transit Insurance will be covered by BHEL under its open Insurance Policy. Seller shall inform dispatch particulars (Purchase Order, RR /GR, Invoice value etc.) to "Finance department (Store bill Section), BHEL Ranipur, Haridwar (Uttarakhand-India) with value of consignment to the Purchaser within 07 days of dispatch for BHEL to arrange insurance coverage in its policy. Failure on the part of seller to inform dispatch particulars will make him liable to pay for any transit damages / losses suffered by the Purchaser.
- b) If Quoted Prices are inclusive of transit insurance, no weightage shall be given while evaluating the bids for Cost of Insurance, being in BHEL Scope.

### 18. RISK PURCHASE.

In case of abnormal delays (beyond the maximum late delivery period as per LD clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract or under General Law.

### 19. FORCE MAJEURE CLAUSE.

Notwithstanding any other thing contained anywhere else in the contract or PO (Purchase Order), In case the discharge of obligation under the contract by either party is impeded or made unreasonably onerous, neither party shall be considered in breach of the contract to the extent that performance of their respective obligation is prevented by an event of Force Majeure that arises after the effective date (PO date).

In the above clause, Force Majeure means an event beyond the control of the parties to the contract which prevents a party from complying with any obligation of the contract including but not limited to:

- Act of God (Such as but not limited to earthquake, drought, tidal waves, floods etc.).
- War (whether war be declared or not), Hostilities Invasion, Act of foreign enemy etc.
- Rebellion, revolution, insurrection, civil war etc.
- Contamination of Radio Activity from any nuclear fuel or from any other nuclear waste or any other hazardous materials.
- Riots, commotions, strike unless restricted to the employees of supplier.
- Acts of terrorism.



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- g) Other unforeseeable circumstances beyond the control of the parties and which the affected party cannot avoid even by using its best efforts.
- h) Cancellation of contract by customer.
- i) Change in law / government. Regulation making the performance impossible.
- j) Pandemic or Epidemic.

The party claiming to be affected by force majeure shall notify the other party in writing immediately without delay on the intervention and on the cessation of such circumstances.

Irrespective of any extension of time, if an event of force majeure occurs and its effect continues for more than 180 days the affected party shall have right to cancel the contract.

As soon as reasonably practicable following the date of commencement of a Force Majeure Event, and within a reasonable time following the date of termination of a Force Majeure Event, either Party invoking it shall submit to the other Party reasonable proof of the nature of the Force Majeure Event and of its effect upon the performance of the Party's obligations under this Agreement.

The party shall, and shall ensure that its Subcontractors shall, at all times take all reasonable steps within their respective powers and consistent with Good Operating Practices (but without incurring unreasonable additional costs) to:

- a) Prevent Force Majeure Events affecting the performance of the party's obligations under this Agreement.
- b) mitigate the effect of any Force Majeure Event and
- c) Comply with its obligations under this Agreement.

If the war like situation has developed in a country where a seller's works is located in this P.O. or there is political instability and Indian Embassy located in that country forbids or advises for not having any business dealing with the sellers located in such zone / region/ country, then BHEL reserves the right to cancel the order.

### **20. NON-DISCLOSURE AGREEMENT.**

All Drawing and Technical Documents relating to the product or it's manufacture submitted by one party to the other, prior or

subsequent to the formation of contract, shall remain property of the submitting party. Drawing, technical documents or other technical information received by one party, shall not without the consent of the other party, be used for any other purpose than that, for which they were provided. Such technical information shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others or to gain a commercial advantage. BHEL reserves the right to claim damages from the bidder, or take appropriate action as deemed fit against the bidder, for any infringement of the provisions contained herein as available under law or equity.

### **21.SETTLEMENT OF DISPUTES / ARBITRATION.**

In case of any dispute arising out of as in connection with this contract, the same shall be referred to arbitration under Arbitration & Conciliation Act 1996 of a sole arbitrator who shall be appointed by mutual consent of the parties. The seat & venue of arbitration shall be Haridwar.

The proceedings shall be conducted in English. The Governing law of contract shall be the substantive law of India.

### **22. WHARFAGE / DEMURRAGE RESPONSIBILITY.**

In the event of delay in receipt of documents by Manager (Stores-Shipping) BHEL-Haridwar and in case where dispatches are made through Unapproved Transporter the sole responsibility for wharfage / demurrage for such delay shall be that of supplier.

### **23. CONDITIONS FOR AVAILING MICRO & SMALL ENTERPRISES (MSE'S) BENEFITS.**

- a) "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 attested copy of a CA certificate



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(Format enclosed at annexure-1 where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two-part bid) or vendor has to give Udyog Adhar Memorandum (UAM). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents is found or the requisite documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above require document are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer. **UAM need not required to be notarized or attested.**

b) Any new supplier will be eligible for registration with BHEL as MSE supplier provided at least any one of the following documents are submitted along with application for registration: -

1. Udyog Adhar Memorandum (UAM).
2. Valid National Small Industries Commission (NSIC) Certificate.
3. Entrepreneurs Memorandum part II (EM II) certificate (valid based on deemed validity of 5 years) or
4. EM II certificate along with attested copy of CA Certificate (as per prescribed format at annexure-A) applicable for the relevant financial year (latest audited), where the deemed validity of EM II is over.
5. However, credentials of all MSE suppliers will be verified before advancing the intended benefits.
6. MSE bidders claiming SC/ST status will have to submit SC/ST certificate of the Proprietor from competent authority. Attested (notarized or attested by Gazetted officer) copy to be submitted along with the offer.
7. In case techno-commercial accepted bidders include MSE source and their prices (based on landed cost – considering quoted prices) are within the price band of 15% w.r.t. L-1 bidder, then BHEL can offer **25%** of quantity of respective item (rounded off to nearest number) to MSE bidders at L-1 price and in case, more than one MSE bidder is in 15 % band and the same is accepted by more than one MSE bidders then **25%** quantities of respective items will be considered for ordering on proportionate basis amongst MSE bidders.

8. There will be minimum of **3%** reservation for women owned MSEs within the above mentioned 25% reservation.
9. The reservation for MSEs owned by SC/ST will be **6.25%** { 25% out of target of 25% - refer para 4 of Public Procurement Policy for the Micro and Small Enterprises(MSEs)}.
10. The definition of MSEs owned by Women Entrepreneurs is clarified as under:
  - a) In case of proprietary MSE, proprietor shall be Woman.
  - b) In case of partnership MSE, the Woman partners shall be holding at least 51% of share in the unit.
  - c) In case of Private Limited companies, at least 51% share shall be held by Women promoters.
11. The definition of MSEs owned by SC/ST is clarified as under:
  - a) In case of proprietary MSE, proprietor(s) shall be SC/ST.
  - b) In case of partnership MSE, the SC/ST partners shall be holding at least 51% of shares in the unit.
  - c) In case of Private Limited companies, at least 51% share shall be held by SC/ST promoters.
12. While distributing the **25%** quantity amongst MSE bidders the decimal points in quantity shall be ignored for all the bidders except the L-1 amongst MSE bidders. Balance quantity after allocating the quantity to other MSE bidders ignoring the quantities in decimal, shall be given to L-1 (amongst MSE) bidder. However, if there are more than one MSE bidder at the same price level than preference for additional quantities due to ignoring off the decimal (as mentioned above) shall be given to the bidder offering favorable terms to BHEL and if the conditions offered are also same then preference will be given to the bidder having high SPR rating.
13. In case there are more than one MSE bidders (with different landed cost to BHEL) within 15% price band of lowest bidder and quantity to be offered is 1 no. only, then preference shall be given to the MSE bidder with lowest landed cost.
14. In case there are more than one MSE bidders (with same landed cost to BHEL) within 15% price band of lowest bidder and quantity to be offered is 1 no. only, then preference shall be given first, based on the favorable terms in the bid and in case terms are also same, the bidder with high SPR rating shall be given preference.
15. If L1 bidder is MSE bidder, entire quantity will be given to such MSE bidder only.



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16. Note: It may however be noted that MSE guidelines as on date (Date of Technical Bid Opening Part-1) shall prevail.

17. "As per the OM No. F.No. 1(2)(1)/2016-MA dtd. 09.02.2017 issued from the Office of Development Commissioner (Micro, Small & Medium Enterprises), "Traders and agents should not be allowed to avail the benefits extended under the PP Policy."

In view of this, it is clarified that benefits of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE Vendors who are manufacturers of offered items against the NIT. No MSE benefits shall be provided to Agents / Stockists / Dealers / Traders etc. for the items offered but not manufactured by themselves."

### 24. INFORMATION TO THE BIDDERS.

a) Purchase related information is available at our Business-to-Business (B2B) Portal available on our website <https://hwr.bhel.com>. The user ID & password can be obtained by sending a request to concerned purchase executives.

b) Intimate your change in mail address or communication address or changes, if any, by email to AGM (SDX/MM) giving your bidder Code.

c) Please resolve your rejections and unexecuted overdue purchase order immediately which are posted at our B2B Portal, which can be visited through our site <https://hwr.bhel.com>

d) Copy of this Tender Enquiry is being sent through the post.

e) The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

In case, the bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/guidelines.

f) Supplier must upload digitally signed e-Invoice on B2B portal for processing of Bills.

In other cases, inked signed hard copy of Invoice to be submitted for processing of Bills.

### 25. MAKE IN INDIA (GOVT-NOTIFICATION).

A. This tender enquiry shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 04.06.2020 of government of INDIA and subsequent circulars issued afterwards. Accordingly, the minimum local content, the margin of purchase preference and the procedure for preference to make in INDIA shall be adhered.

B. The margin of purchase preference shall be 20%.

- 'Class-I local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under this order.
- 'Class-II local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this order.
- 'Non- local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20%, as defined under this order.

C. Vendor to specifically confirm if they are Class-I or Class-II local supplier or not as per above mentioned notification. Accordingly, the 'Class-I local supplier' / 'Class-II local Supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier' / 'Class-II local Supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made.

D. In cases of Procurement for a Value in Excess of Rs. 10 Crores, the 'Class-I local supplier' / 'Class-II local Supplier' shall be required to provide a Certificate from the Statutory Auditor or Cost Auditor of the Company (in the case of companies) or from a practicing Cost Accountant or practicing Chartered Accountant (in respect of suppliers other than companies) giving the percentage of Local Content.



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### E. Requirement of Purchase Preference:

Purchase preference shall be given to 'Class-I local supplier' in procurements undertaken by procuring entities in the manner specified hereunder -

a. In the procurements of goods or works, which are covered by para 3(b) of mentioned Govt. circular and which are divisible in nature, the 'class-I local supplier' shall get purchase preference over 'Class-II supplier' as well as 'Non-local supplier', as per following procedure:

- i. Among All qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.
- ii. If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local supplier, then such balance quantity may also be ordered on the L1 bidder".

b. In the procurements of goods or works, which are covered by para 3(b) of mentioned Govt. circular and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'class-I local supplier' shall get purchase preference over 'Class-II supplier' as well as 'Non-local supplier', as per following procedure:

- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
- ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling

within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.

- iii. In case such lowest eligible 'Class-I local supplier', fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 prices, the contract may be awarded to the L1 bidder.

c. 'Class-II local supplier' will not get purchase preference in any procurement, undertaken by procuring entities.

F. For this procurement, the local content to categorize a supplier as a Class-I local supplier/ Class-II local supplier/ Non-local supplier and purchase preference to Class-I local supplier, is 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 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 this NIT.

G. Procurements where estimated value to be procured is less than Rs. 5 lakhs shall be exempted from GOI order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020.

H. For procurement of Goods & Services which are divisible in nature, following shall be operated for **MSE bidders** under Public procurement Policy for the Micro and Small Enterprises (MSEs) Amendment Order, 2019, Ref. No. AA: SSP: MSE: Amndt, dtd. 30.11.2018, Circular No. 44 of 2018-19;-

a. If L1 bid is not from "Class-I local Supplier" and price quoted by MSE bidder falls within the margin of Purchase preference (L1+15% for MSEs), then 25 % of total order quantity of respective item (rounded off to nearest number) shall be awarded to MSE bidder, subject to MSE bidder matching the L1 Price. Out of Remaining 75% quantity, distribution shall be operated as per below sub-clause (2) –

b. If "Class- I Local Supplier" (Next to L1, other than MSE) quoted price falling within the Margin of Purchase Preference, and "Class-I local supplier" matches the L1 price,



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Indian Bidders (Version June-2021, Rev: 06)

then 50% of remaining Quantity (after allocation of 25% to MSE) i.e. 37.5% shall be awarded to local supplier and 37.5% shall be awarded to foreign bidder.

*Note: L1 Price refers to lowest evaluated / landed cost to Company.*

For Further details, please refer GOI order no. P-45021 / 2 / 2017 - PP (BE-II) dated 04.06.2020.

### 26. RESTRICTIONS UNDER RULE 144(XI) OF THE GENERAL FINANCIAL RULES (GFRs), 2017

All provisions of Order No. F.No.6/18/2019-PPD of Department of Expenditure (DoE) shall be applicable for this tender enquiry (Order copy is available at <https://doe.gov.in/procurement-policy-divisions>). Accordingly, any bidder from a country which shares a land border with India (except the countries to which the Govt. of India has extended lines of credit or in which the Govt. of India is engaged in development projects for which list is available at <https://www.mea.gov.in/>) will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as specified in Annex I of the said Order of DoE.

Updated list of the countries to which lines of credit have been extended or in which development projects are undertaken are available on the Ministry of External affairs website (<https://www.mea.gov.in/>)

For the purpose of this order, definition of Bidder from a country which shares a land border with India shall be same as defined in the Annex III of the said order.

Registration with the competent authority as stipulated in the said order is responsibility of bidder. Bidder has to submit a certificate certifying following along with offer:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that bidder (.... Name of Bidder) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that bidder (.....Name of bidder) fulfils all requirements in this regard and is eligible to be considered"

If the bidder is from such country which shares a land border with India evidence of valid registration by the Competent Authority shall also be attached along with offer."

### 27. NOTE.

- a) Special conditions of enquiry, if enclosed by BHEL, will supersede the respective standard / general terms of enquiry.
- b) Any other Standard terms and Conditions of the bidder attached / referred against the tender enquiry will be treated as null and void ab initio.
- c) In order to protect the commercial interests of BHEL, it becomes necessary to take action against suppliers / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business / money / reputation, indulged in malpractices, cheating, bribery, fraud or any other misconducts or formation of cartel so as to influence the bidding process or influence the price etc. Guide- lines for Suspension of Business Dealings with Suppliers / Contractors shall prevail over which is available at BHEL website <http://www.bhel.com>
- d) The 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.
- e) "BHEL shall recover the amount of compensation paid to victim(s) by BHEL towards loss of life / permanent disability due to an accident which is attributable to the negligence of contractor, agency or firm or any of its employees as detailed below;
  1. **Victim:** Any person who suffers permanent disablement or dies in an accident as defined below.
  2. **Accident:** Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious

**## Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.**



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Indian Bidders (Version June-2021, Rev: 06)

occurrence caused during the manufacturing / operation and works incidental thereto at BHEL factories/ **offices and precincts** thereof , project execution , erection and commissioning, services, repairs and maintenance, trouble shooting, serving , overhaul, renovation and retrofitting , trial operation, performance guarantee testing undertaken by the company or during any works / during working at BHEL Units/ Offices/ townships and premises/ project sites.

### 3. Compensation in respect of each of the victims:

- (i) In the event of death or **permanent disability** resulting from **Loss of both limbs**: Rs. 10,00,000/- (Rs. Ten Lakh).
- (ii) In the event of **other permanent disability**: Rs. 7,00,000/- (Rs. Seven Lakh).

4. Permanent Disablement: A disablement that is classified as a permanent total disablement under the proviso to Section 2(l) of the Employees Compensation Act, 1923.”

f) The bidder shall be in compliance with applicable laws, rules and regulations throughout the terms of the contract for conducting its business generally and to perform its obligations under this contract.

APPLICATION : STEAM TURBINE  
ITEM : NRV WITH ALUMINIUM FLAP  
DOC. NO. : 41313795992  
MATERIAL CODE : W90313137684

REVISION-01

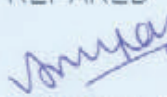
SCOPE:

NRV WITH ALUMINIUM FLAP DN200, PN16 TAG NO. MAW80AA031 & MAW80AA036.

FLOW THROUGH THE VALVE -  $0.7\text{m}^3/\text{sec}$ .  
MEDIUM - HOT AIR/WATER VAPOUR  
PRESSURE -  $1.1\text{kg}/\text{cm}^2$   
TEMPERATURE -  $100^\circ\text{C}$   
PD ALLOWED - 100 mmwc  
GENERAL REQUIREMENTS - ST47025/ST47034

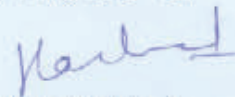
NOTE: ABOVE SCOPE REPLACES THE SCOPE GIVEN IN TABLE AT  
CLAUSE NO. 1 OF ST47034.

PREPARED BY

  
( ANUPAM )

PED, BHEL, HARDWAR

APPROVED BY

  
( S.K.GUPTA )

PED, BHEL, HARDWAR



**PRODUCT STANDARD**  
**STEAM TURBINE ENGINEERING**

ST 47034

PAGE 1 OF 3

SIGN & DATE

SUPERSEDES INVENTORY No.

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Own Experience

**TECHNICAL SPECIFICATION OF NON-RETURN VALVES FOR LUBE OIL AND FIRE RESISTANT FLUID VAPOUR EXHAUST LINE.**

**1.0 SCOPE**

This specification covers design, manufacturing assembly, testing and supply of Non-return valves as per sketch 1.0 to be installed in turbine lube oil and FRF vapour exhaust line with identification number as tabulated below:

SL. NO.	Identification Number.	Size No	Flow medium	Working Para-meters	End connection
1	MAV82AA001	125	Sorvo- -prime 46 of IOC	Pressure 2 kg/cm <sup>2</sup> abs. Temp. 70°C	To be fitted between flanges as per DIN 2633
2	MAV82AA002	125			
3	MAX82AA002	80	Fire resistant Fluid (Phosphoric ester)		
4	MAX82AA003	80			

**2.0 FUNCTION**

These valves are to be installed on main oil tank and FRF tank after each vapour exhausters to prevent back flow of vapours in case one vapour exhauster is under maintenance.

SIGN & DATE	AGREED:	NAME		SIGN. & DATE	
		TSX	B.M. BANSAL	DRAWN	
15/5/04		QAX	H.C. UPADHYA	WORKED	A. K. JAIN
		DEPT	NAME	CHECKED	K.C. SACHAN
			SIGN. & DATE	SUPERVISED	S.S. KULKARNI
INVENTORY NO. P-5515	REVISION: 02		Distribution	Qty.	Approved:
	Name	Sign	Date	ENG. DEV. MANAGER	
	S.K. Gupta	[Signature]	12.2.08	Prepared	Issued
	Reaffirmed Feb, 2008		STE	STE (TL) HARDWARE	26.3.84



**PRODUCT STANDARD**  
**STEAM TURBINE ENGINEERING**

ST 47034

PAGE 2 OF 3

SIGN & DATE

SIGN & DATE

SIGN & DATE

INVENTORY No. P-5515

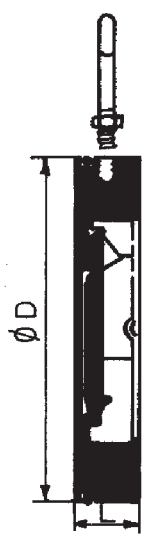
INVENTORY No. 15/10/04

INVENTORY No.

SUPERSEDES INVENTORY No.

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- 3.0 **RATING** : Nominal pressure rating = 16 kg/cm<sup>2</sup>
- 4.0 **MATERIAL** *flap of Aluminium* <sup>other</sup>  
Body of Carbonsteel, Material of <sup>other</sup>internals to be selected by supplier and to be informed to purchaser for their comments, if any. Also refer clause 4.0 of ST 47025.  
All gaskets shall be of VITON.
- 2.0 **END CONNECTIONS**  
Valves are to be fitted between flanges as per DIN 2633.
- 6.0 **SPECIAL FEATURE:**  
Maximum permissible pressure drop across the valve at sl.Nos. 1 & 2 with 0.11 m<sup>3</sup>/sec flow of air shall be 60 mmwc and across the valve at sl.Nos. 3 & 4 with 0.02 m<sup>3</sup>/sec flow of air shall be 20 mmwc.
- 7.0 For completion of this specification, read this specification alongwith general purchase specification of valves ST 47025.



SKETCH-1

NOM. DIA.	DIM. IN MM		WT. APPX. IN KG.
MM.	L	D	K.G.
80	24	134	1.80
100	27	154	2.50

Revision: 02





# उत्पाद मानक

## STEAM TURBINE ENGINEERING PRODUCT STANDARD

ST47025  
HW0690097

पृष्ठ 4 का 1  
Page 1 of 4

SUPERSEDES  
INVENTORY NO.

सामग्री सूची संकाय को  
संशोधित किया गया है

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स्वत्वाधिकार एवं गोपनीय

इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की संपत्ति है। इसका प्रयोग एवं आरक्षण इस से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।

हस्ताक्षर एवं दिनांक  
SIGN & DATE

26.7.04








सामग्री सूची संकाय INVENTORY  
NO.








P-5522









### GENERAL PURCHASE SPECIFICATION OF VALVES

- 1.0 SCOPE** :- This specification covers the general technical requirements for all valves to be used in turbine integral system handling hot condensate, superheated steam, air steam mixture, steam water mixture, oil & oil vapours, fire resistant fluid & its vapours. Separate specifications to indicate specific requirements e.g. design parameters, nominal size etc. have been prepared for each valve which shall be enclosed with this specification whenever any requirement arises.
- 2.0 RATING** :- Rating of the valves shall be selected by valve supplier for the working conditions as specified in separate specification / documents / drawings / enquiry of desired valve to which specification is enclosed. The rating shall be as per ANSI B16.34 or approved equivalent.
- 3.0 END CONNECTION**
- 3.1** Butt weld end connections of valves shall be suiting to pipe size as mentioned in enclosed specification of valve.
- 3.2** In case of flanged end valves, the supplier shall separately quote for the counter flanges, gaskets, O-ring & fastners of required pressure-temperature rating.
- 4.0 MATERIAL** :- All materials used in the construction of the valve body and other component shall be selected from the best available material for the purpose. The purchaser / owner reserves the right to review the material specification of valve components and to ask changes in selection of material. Any specific material for particular valve has been mentioned in the valve specification.
- 5.0 DRAINAGE OF VALVE BODY** :- Depending on the construction and placement of the valve in piping system, a drain tapping in the body may be required for valves used in oil, steam and water lines. This shall be checked and intimated by purchaser / owner after the receipt of offer or at the time of placement of order. The tapping shall be at the lowest point and on the center line, which shall be suitably plugged with a threaded plug & washer. The drain size for various valve sizes shall be as follows:-
- NB50 to 100 - 15 mm  
NB125 to 300 - 20 mm  
NB350 & above - 25 mm
- 6.0**
- Each valve shall be marked with an arrow on body showing direction of flow of medium, not applicable for gate valve which can be mounted with either of the sides.
  - Handwheel shall have the indication for opening & closing direction.

हस्ताक्षर एवं दिनांक SIGN & DATE		नाम NAME	दिनांक एवं हस्ताक्षर SIGNATURE & DATE
TSX	D.L. OBEROI	अनुवादक TRANSLATED BY	
QAX	S.S. CHAUHAN	निर्माणकर्ता WORKED BY	S.K. GUPTA
सहमत विभाग AGREED DEPTT.	नाम NAME	जांचकर्ता CHECKED BY	V.K. GUPTA
	दिनांक एवं हस्ताक्षर DATE & SIGNATURE	पर्यवेक्षणकर्ता SUPERVISED BY	V.K. GUPTA
	स्वीकृति APPROVED :		
REV.NO. 02		निर्माण PREPARED : STE	जारी ISSUED : STE (TL) HARDWAR
Di. 09/11/04			दिनांक DATE : 26.3.84

दिनांक एवं हस्ताक्षर SIGN & DATE		<b>उत्पाद मानक</b>  <b>STEAM TURBINE ENGINEERING</b>  <b>PRODUCT STANDARD</b>	<b>ST47025</b> HW0690097 पृष्ठ 4 का 2 Page 2 of 4								
सामग्री सूची संख्या को अधिकृत करता है SUPERSEDES INVENTORY NO.	<p>3. <b>GLAND SEALING</b> :- Valves working under vacuum are to be provided with gland sealing arrangement.</p> <p>7.0 <b>HYDRAULIC TEST</b> :- Hydraulic test shall be carried out on each valve. After the hydraulic test the internals shall be wiped, cleaned and dried. The body &amp; seat shall be tested hydraulically in accordance with ANSI B16.34. For steam &amp; air service valves, seat leakage shall additionally be tested by air as per ANSI B16.34. Purchaser/owner shall have the right to witness the test. However the test certificates mentioning about test pressure &amp; duration of test along with following informations shall be furnished to purchaser.</p> <ol style="list-style-type: none"> <li>1. Valve identification No.</li> <li>2. Type of valve &amp; description</li> <li>3. Valve size</li> <li>4. Name of manufacturer</li> <li>5. Project name</li> <li>6. Date of testing</li> </ol> <p>8.0 <b>CLEANING &amp; SURFACE PROTECTION</b> :- The surfaces shall be rubbed with a solvent (e.g white spirit) to clean &amp; prepare them for the application of the paints. Unmachined surface shall be blast cleaned to remove any rust. Stainless steel portion shall not be painted.</p> <ol style="list-style-type: none"> <li>1. Outer surface to be protected by painting with two coats of Red oxide Zinc chromate primer.</li> <li>2. Inside surface to be protected against rusting and corrosion.</li> </ol> <p>9.0 <b>IDENTIFICATION PLATE</b> :- Following information in English shall be engraved on a metal sheet properly fixed at a convenient location on the body or body cover.</p> <ol style="list-style-type: none"> <li>1. Identification No. as specified in enclosed valve specification.</li> <li>2. Valve type &amp; Description</li> <li>3. Valve size</li> <li>4. Pressure rating</li> <li>5. Manufacturer</li> <li>6. Year of manufacturing</li> <li>7. Project name</li> </ol>										
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<b>स्वत्वाधिकार एवं गोपनीय</b> इस प्रलेख में दी गई सूचना भारत भारती इलेक्ट्रिकल्स की संपत्ति है। इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में अधिकारक से हो न किया जाए।											
हस्ताक्षर एवं दिनांक SIGN & DATE 26.7.04											
सामग्री सूची संख्या INVENTORY NO. P-5522	REV. NO. 02		<table border="1"> <tr> <td>निर्माणकर्ता WORKED BY</td> <td>S.K.GUPTA</td> <td></td> <td>9/7/04</td> </tr> <tr> <td>जांचकर्ता CHECKED BY</td> <td>V.K.GUPTA</td> <td></td> <td>9/7/04</td> </tr> </table>	निर्माणकर्ता WORKED BY	S.K.GUPTA		9/7/04	जांचकर्ता CHECKED BY	V.K.GUPTA		9/7/04
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जांचकर्ता CHECKED BY	V.K.GUPTA		9/7/04								

दिनांक एवं हस्ताक्षर SIGN & DATE		<b>उत्पाद मानक</b>  <b>STEAM TURBINE ENGINEERING</b>  <b>PRODUCT STANDARD</b>	<b>ST47025</b> HW0690097 पृष्ठ 4 का 3 Page 3 of 4								
सामग्री सूची संख्या को अधिकृत करता है SUPERSEDES INVENTORY NO.	<p><b>10.0 STANDARD :-</b> Latest issue and amendments of all applicable international standard shall apply.</p> <p><b>11.0 PACKING :-</b> Valve ends, machined and unmachined surface, etc. shall be protected against rusting &amp; corrosion and valve shall be packed according to mode of transport and storage in top shade store gantry in tropical climatic conditions for a period of 8-12 months.</p> <p><b>12.0 GUARANTEE :-</b> The supplier shall guarantee trouble free operation of the equipment for a period of 2 years after installation and commissioning or a period of 3 years from the date of dispatch of equipment whichever is earlier.          If during erection/commissioning and operation at site, any defect in any component is detected, purchaser's / owner's site representative shall prepare the assessment report and a copy of the same shall be forwarded to the supplier. The supplier shall replace / rectify the concerned items free of charge. The supplier, if he so desires, may deputed his representative to site at his own cost otherwise the report of purchaser's / owner's site representative shall be binding on the supplier.</p> <p><b>13.0 SPARES :-</b> The offer of valves shall include the requirement of spares to be made available at the time of erection &amp; commissioning. A separate offer of spares to be required for 3 to 5 years of operation shall also be separately enclosed along with main offer.</p> <p><b>14.0 SPECIAL TOOLS &amp; TACKLES :-</b> Any special tools &amp; tackles, required for erection, commissioning and maintenance of valves shall be included in main offer per set of valves.</p> <p><b>15.0 QUALITY ASSURANCE, INSPECTION AND TESTING :-</b></p> <p><b>15.1</b> The manufacturer shall conduct all tests required to ensure all the component parts of the valve offered conform to the requirements of the specification and in compliance with requirements of applicable codes and standards.</p> <p><b>15.2</b> The bidder shall submit along with his offer quality plan in the prescribed BHEL's format.</p> <p><b>15.3</b> The particulars of the proposed shop tests and procedures for the tests shall be submitted to the BHEL / owner for approval along with quality plan.</p> <p><b>15.4</b> The equipment shall be dispatched only after inspection and clearance of material by BHEL / owner and approval of test certificates by BHEL / owner.</p> <p><b>15.5</b> The minimum tests/ checks to be carried out on the valve as envisaged by purchaser shall be as per the specification of desired valve to which this specification is enclosed. This is , however not intended to form a comprehensive testing programme as it is supplier's responsibility to prepare the detailed quality plan, which should also include tests, checks carried out by supplier as a part of their normal practice. This quality plan is subject to the approval of BHEL and owner. BHEL/owner reserves the right to ask for any more checks at the time of quality plan finalisation.</p>										
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जांचकर्ता CHECKED BY	V.K.GUPTA		9/7/04								

SIGN दिनांक एवं समय & DATE		<b>उत्पाद मानक</b>  <b>STEAM TURBINE ENGINEERING</b>  <b>PRODUCT STANDARD</b>	<b>ST47025</b> <b>HW0690097</b> <b>पृष्ठ 4 का 4</b> <b>Page 4 of 4</b>								
सामग्री सूची संख्या को अतिरिक्त क्रमांक SUPERSEDES INVENTORY NO.	<p><b>16.0 ACTUATORS :-</b> As mentioned in valve specification, separately enclosed with this specification, the actuators shall be supplied along with handwheel to facilitate manual operation of valve. Direction of rotation of handwheel for opening and closing of valve shall be indicated on handwheel.</p> <p><b>17.0 DOCUMENTS</b></p> <p><b>17.1 Documents required along with the offer / at the time of registration :-</b> The supplier shall submit 6 copies of following documents in English language along with the offer to enable purchaser for complete technical scrutiny of the offer.</p> <ol style="list-style-type: none"> <li>1. Cross sectional &amp; dimensional drawing of valve along with actuator ( if required ) in assembled condition giving items nos. description, material specification of all components, details of bypass valve ( if envisaged ), gland sealing arrangement, end connection details, clear space required for operation &amp; dismantling of valve &amp; actuator for maintenance for approval by the purchaser.</li> <li>2. Quality plan for approval by purchaser.</li> <li>3. List of commissioning spares, maintenance spares for 3 to 5 years of operation for reference.</li> <li>4. Any special requirements of lubricant for reference.</li> </ol> <p>The document submitted along with the offer at the time of registration and approved by purchaser / owner shall be the basis of the order and no changes shall be made with out permission of purchaser / owner.</p> <p>Scrutiny and approval of documents, submitted along with the offer, by purchaser / owner shall not release the supplier and his sub-vendors of their responsibility under the contract .</p> <p><b>17.2 Documents to be submitted after placement of the order :-</b></p> <ol style="list-style-type: none"> <li>1. 10 copies of finalised contract drawing within 8 weeks.</li> <li>2. 10 copies operation/ maintenance/ erection instructions for each station within 12 weeks.</li> <li>3. Instruction of conservation and deconservation within 12 weeks.</li> </ol> <p><b>18.0</b> Six copies of all actual test certificates and quality documents shall be furnished to purchaser/owner.</p> <p><b>19.0</b> If there are any deviation from this specification in offer, the same shall be clearly spelled out clausewise by supplier.</p> <p><b>20.0</b> Cross referred standards :- ANSI B16.34</p>										
<b>COPYRIGHT AND CONFIDENTIAL</b> <small>The information on this document is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.</small>											
<b>स्वत्वाधिकार एवं गोपनीय</b> <small>इस दस्तावेज में दी गई सूचना भारत भारती इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रयोग एवं अनुकरण अन्य से किसी भी तरह प्रयोग, जो कि कम्पनी के हित में हानिकारक हो न किया जाए ।</small>											
हस्ताक्षर एवं दिनांक SIGN & DATE  <b>26.7.04</b>											
सामग्री सूची संख्या INVENTORY NO. <b>P-5522</b>	REV. NO. 02		<table border="1"> <tr> <td>निर्माणकर्ता WORKED BY</td> <td>S.K.GUPTA</td> <td></td> <td>9/7/04</td> </tr> <tr> <td>जांचकर्ता CHECKED BY</td> <td>V.K.GUPTA</td> <td></td> <td>9/7/04</td> </tr> </table>	निर्माणकर्ता WORKED BY	S.K.GUPTA		9/7/04	जांचकर्ता CHECKED BY	V.K.GUPTA		9/7/04
निर्माणकर्ता WORKED BY	S.K.GUPTA		9/7/04								
जांचकर्ता CHECKED BY	V.K.GUPTA		9/7/04								

**ADDENDUM TO ST47025****APPLICATION : STEAM TURBINE****Date : 16.11.2011****ITEM : GENERAL SPECIFICATION OF VALVES****Rev : 01****ADDITIONAL SPECIFICATION :**

- a) Pressure retaining parts of valves shall be subjected to NDT as per Table-I.
- b) Bar stock / forging above 50mm diameter for valve trim shall be subjected to UT.
- c) Hardened / stellitted valve disc and seat are to be subjected to LPI and hardness check.
- d) Colour matching of valve disc / plug and seat shall be carried out to ensure contact.
- e) Hydraulic pressure test and seat leak test shall be carried out as per ANSI 16.34.
- f) Air seat leak test shall be carried out as per applicable standards / codes.
- g) Functional testing shall be carried out on each valve to check the following as per the approved valve data sheet :
  - (i) Smooth operation
  - (ii) Valve travel, closing and opening time
  - (iii) Current drawn by actuators
- h) Springs for safety valves shall be tested with suitable NDT and for spring rate.
- i) Safety and safety relief valves shall be tested for performance.

**TABLE-I**

Valve Size NB in mm	ANSI Class UPTO 300	ANSI Class ABOVE 300 UPTO 600	ANSI Class ABOVE 600 BELOW 900	ANSI Class 900 & ABOVE & BELOW 4500
Less than 50	Visual	Visual	Visual	MPI
50 & above but below 100	Visual	Visual	MPI	MPI & RT (on 10% of valves on 100% area)
100 & above but less than 300	Visual	MPI	MPI & RT (on 10% of valves on change of section & weld ends)	MPI & RT (on 100% area)
300 & above	MPI	MPI	MPI & RT (on change of section & weld ends)	MPI & RT (on 100% area)

- NOTE :**
1. For body and bonnet forgings UT with MPI may be adopted in place of RT.
  2. For austenitic steel MPI may be replaced by LPI.
  3. Outer surface of valve shall be painted as per following painting scheme

**Painting Scheme**

Paint (Coat)	Paint Type	No. of coat	DFT*
Primer Paint	: Epoxy base Zinc rich primer paint	1 Coat	35
Intermediate Paint	: Epoxy TiO <sub>2</sub> Pigmented Polyamide Cured Paint	1 Coat	70
Finish (Final) Paint	: Aliphatic Acrylic 2 Pack Polyurethane Finish paint	2 Coats	75
Total DFT		180	

DFT – Dry Film Thickness (final) in microns.

- Shade as per RAL – Grey 9002
- Identification Tag/Band of white 9010 color. Legend in Black letters.

This supersedes clause 8 (i) of ST47025.

4. Valve made of stainless steel shall not be painted.

5. Valve body material for the following temperature parameter shall be as follows :-

Upto 400°C - Carbon steel

401°C - 495°C - Alloy steel ( 15Mo3 or equivalent )

496°C - 550°C - Alloy steel ( 10CrMo910 or equivalent )

Above 550°C - Alloy steel ( X10CrMoVNb9-1 or equivalent )

6. Each type of Angle Drain valve (MAL valves) and Temperature control valve offered should have a minimum of two years of operational experience in similar application at the time of offer submission.

  
(S.K.Gupta)

QAX, BHEL, HARDWAR

PED, BHEL, HARDWAR

QUALITY PLAN

SL. NO	COMPONENT OPERATION	CHARACTERISTICS	CLASSIFICATION	TYPE OF CHECK	QUANTUM	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS			REMARKS		
								P	W	V			
BHEL		QA_BI_QP_117	00	DESCRIPTION								LEGENDS	
SPEC. NO.		AS PER PO	AS PER PO	NRV WITH ALUMINIUM FLAP								P-PERFORMED BY 1- BHEL REP	
DRG. NO.		APPROVED DRAWING AS PER PO	AS PER PO									W- WITNESSED BY 2- VENDOR	
												V- VERIFIED BY 3- SUBVENDOR	

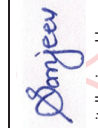
1	MATERIAL													
1.1	BODY, DISC	CHEMICAL COMPOSITION MECHANICAL PROPERTIES	MAJOR	CHEMICAL MECHANICAL	1 / HEAT	ORDERING SPEC. / BHEL APPD. DRG.	ORDERING SPEC. / BHEL APPD. DRG.	MILL TC	3/2	-	2/1			
		SURFACE DEFECTS	MAJOR	VISUAL	100%	MSS-SP-55	MSS-SP-55	TC	2	-	1			
		DIMENSIONS	MAJOR	MEASUREMENT	100%	BHEL APPD. DRG.	BHEL APPD. DRG.	TC	2	-	1			

2. IN PROCESS INSPECTION

2.1	MACHINING OF BODY, DISC	DIMENSIONS	MAJOR	MEASUREMENT	100%	BHEL APPD. DRG.	BHEL APPD. DRG.	IR	2	-	-			
		SURFACE DEFECTS	MAJOR	DPT	100%	ASTM E165 ASME B16.34	ASME B16.34	TC	2	-	1			
2.2	HARD FACING ON DISC & SEAT	HARDNESS	MAJOR	HARDNESS	10%	BHEL APPD. DRG.	BHEL APPD. DRG.		2	-	1			IF CALLED IN DRAWING

3 FINAL INSPECTION

3.1	ASSEMBLY OF VALVE	DIMENSIONS	MAJOR	MEASUREMENT	100%	BHEL APPD. DRG.	BHEL APPD. DRG.	TC	2	1				
3.2	FUNCTIONAL TEST	SMOOTH OPERATION OPENING & CLOSING	MAJOR	OPERATION	100%	SMOOTH OPERATION OF VALVE	SMOOTH OPERATION OF VALVE	TC	2	1*				* 10% (MIN. 2 NO.)
3.3	HYDRAULIC TEST	LEAKAGE	CRITICAL	HYDRAULIC	100%	ORDERING SPEC. / BHEL APPD. DRG	NO LEAKAGE	TC	2	1*				* 10% (MIN. 2 NO.)

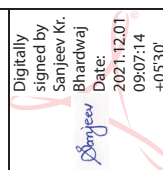
MANUFACTURER/ SUBCONTRACTOR	 Digitally signed by Sanjeev Kr. Bhardwaj Date: 2021.12.01 09:07:05 +0530'	FOR CUSTOMER USE	
		APPROVED BY	

LEGEND:  
 ! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.  
 M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER  
 INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER

**QUALITY PLAN**

SL. NO.	COMPONENT OPERATION	CHARACTERISTICS	CLASSIFICATION	TYPE OF CHECK	QUANTUM	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	LEGENDS		
									P	W	V
BHEL									P- PERFORMED BY	1- BHEL REP	
									W- WITNESSED BY	2- VENDOR	
									V- VERIFIED BY	3- SUBVENDOR	

3.4	SEAT LEAK TEST	LEAKAGE	CRITICAL	HYDRAULIC	100%	ORDERING SPEC. / BHEL APPD. DRG	NO LEAKAGE	TC	2	1*	-	* 10% (MIN. 2 NO.)
3.7	PRESERVATION & PAINTING		MAJOR	VISUAL	100%	BHEL SPEC		IR	2	-	-	

MANUFACTURER/ SUBCONTRACTOR	 <p>Digitally signed by Sanjeev Kr. Bhardwaj Date: 2021.12.01 09:07:14 +0530'</p>	<p><b>LEGEND:</b> ! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER</p>	FOR
			CUSTOMER USE
			APPROVED BY