



PURCHASE-BOI DEPARTMENT
BHARAT HEAVY ELECTRICALS LIMITED,
HEAVY ELECTRICAL EQUIPMENT PLANT,
RANIPUR, HARIDWAR – 249 403 (UTTARAKHAND), INDIA

BHEL Ref. No.: B/4011/2026/0303/V1

Tender Enquiry for the requirement of NRV With AI Flap As Per Doc. No. 413137A7992, 41313795992, ST47034 Rev.03, ST47025 Rev.03 & Its Addendum for Dolvi, Koderma (Ph-II) Unit-1&2, Yamuna Nagar, Raghunathpur (Ph-II) Unit-1&2 and Singareni projects

Bids are invited from bidders for the requirement of item **NRV With AI Flap As Per Doc. No. 413137A7992, 41313795992, ST47034 Rev.03, ST47025 Rev.03 & Its Addendum for JSW Dolvi, Koderma (Ph-II) Unit-1&2, Yamuna Nagar, Raghunathpur (Ph-II) Unit-1&2 and Singareni projects** as per detailed specifications. All tender documents uploaded along with this tender enquiry are as mentioned below:

LIST OF TENDER DOCUMENTS

S.No.	Document Name & No.	Total Pages
1.	ADDITIONAL TERMS & CONDITIONS FOR TENDER (ANNEXURE-A) (In addition to General terms and conditions on GeM 4.0 or latest version as applicable)	15
2.	CHECK-LIST & ANNEXURES	12
3.	PQR (PRE-QUALIFICATION REQUIREMENT)	01
4.	TECHNICAL DOCUMENT NO. 413137A7992 & 41313795992	02
5.	TECHNICAL SPECIFICATION NO. ST47034 Rev.03, ST47025 Rev.03 & ITS ADDENDUM	11
6.	BHEL SQP No. QA_BI_QP_101_REV01	02

For and on behalf of BHEL

Engineer (PPX-BOI)
BHEL, HEPP, Haridwar



PPX-BOI DEPARTMENT
BHARAT HEAVY ELECTRICALS LIMITED
 HECP: HARDWAR-249 403 (Uttarakhand)
 FAX: +91 1334 226462 TEL: +91 1334 28 1707

PACKAGE- NRV With AI Flap As Per Document No. 413137A7992 & 41313795992, ST47034 Rev.03, ST47025 Rev.03 & Its Addendum
PROJECT: JSW Dolvi, Koderma (Ph-II) Unit-1&2, Yamuna Nagar, DVC Raghunathpur (Ph-II) Unit-1&2 and Singareni Projects

Annexure A

BUYER ADDED BID SPECIFIC ADDITIONAL TERMS AND CONDITIONS (SCOPE OF ENQUIRY):

1. E-bids on GeM are invited from bidders for the supply of **NRV With AI Flap As Per Document No. 413137A7992 & 41313795992, ST47034 (Rev.03) and ST47025 (Rev.03) & Its Addendum** for **JSW Dolvi, Koderma (Ph-II) Unit-1&2, Yamuna Nagar, Raghunathpur (Ph-II) Unit-1&2 and Singareni Projects** as per requirement mentioned below:

Sl. No.	Material Code & Item Description	Project Name	Details for Supply Completion		
			Lot No.	Lot Qty (In Sets)	BHEL Delivery Schedule
1	MATERIAL CODE: W90313137692 NRV WITH ALUMINUM FLAP AS PER DOC.NO.41313795992, ST47034 AND ST47025 & ITS ADDENDUM SPEC: ST47034 REV: 03	JSW Dolvi	1	1	28-07-26
			2	1	28-03-27
2	MATERIAL CODE: W90313137684 NRV WITH ALUMINUM FLAP AS PER DOC.NO.41313795992, ST47034 AND ST47025 & ITS ADDENDUM SPEC: ST47034 REV: 03	Koderma (St-II) Unit-1	1	1	15-02-27
		Yamuna Nagar	2	1	30-04-27
		Koderma (St-II) Unit-2	3	1	15-06-27
		Raghunathpur (Ph-II) Unit-1	4	1	04-08-27
		Singareni	5	1	08-09-27
		Raghunathpur (Ph-II) Unit-2	6	1	04-02-28

2. Consignee Details:

Sl. No.	Project Name	Site/ Project Address	Requirement Schedule	
1	JSW Dolvi	BHEL Site Office 1X250 MW STG for CPP-4 JSW Dolvi JSW Steel Ltd, Dolvi - 402107 Maharashtra	Lot-1	28/07/2026
			Lot-2	28/03/2027
2	KODERMA (PH-II)	THE CGM & HOP DVC, 2x800 MW DVC KODERMA TPS PH II, PO: BANJHEDIH, KODERMA, JHARKHAND – 825421	Lot-1	15/02/2027
			Lot-2	15/06/2027
3	YAMUNA NAGAR	OFFICE OF CHIEF ENGINEER/DCRTPP, HARYANA POWER GENERATION CORPORATION LIMITED (HPGCL), 1X800 MW ULTRA SUPERCRITICAL EXPANSION UNIT, DEEN BANDHU CHHOTU RAM THERMAL POWER PLANT (DCRTPP), VPO- PANSARA, YAMUNA NAGAR, HARYANA-135001	Lot-1	30/04/2027
4	RAGHUNATHPUR	THE DEPUTY GENERAL MANAGER DAMODOR VALLEY CORPORATION, RTPS 2X660 MW RAGHUNATHPUR TPS (PHASE-II) RAGHUNATHPUR, PURULIA, WEST BENGAL-723133	Lot-1	04/08/2027
			Lot-2	04/02/2028
5	SINGARENI	THE PROJECT MANAGER, 1X800MW SINGARENI THERMAL POWER PLANT STAGE-2 PEGADAPALLY (VILLAGE), JAIPUR (MANDAL), MANCHERIAL (DIST), TELANGANA - 504216	Lot-1	08/09/2027

(Signature of the Vendor with Seal)



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ANNEXURE-A

3. Buyers Specific Additional Terms & Conditions in addition to GTC

Note: Please fill your acceptance/ comments in confirmation column. Blank column will be understood as accepted by bidder.

S. No.	Terms	Description	Bidder's confirmation
1.	Compliance of GTC on GeM	In addition to the terms & conditions mentioned in below table, General Terms and Conditions on GeM 4.0 (Version 1.29) Dt. 25 th March 2025 or its latest revision (if revised prior to issuance of enquiry) shall be applicable against this enquiry. Kindly confirm same is acceptable to you.	
2.	Public Procurement (Preference to Make in India)	<p>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), PPP-MII Order No. P-45021/ 2/ 2017-PP (BE-II) dtd. 04/06/2020 issued by DPIIT. In case of subsequent Orders issued by the respective 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.</p> <p>Compliance to Restrictions under Rule 144 (xi) of GFR 2017:</p> <p>I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. The Competent Authority for the purpose of this Clause shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).</p> <p>II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.</p> <p>III. "Bidder from a country which shares a land border with India" for the purpose of this Clause means: -</p> <p>a. An entity incorporated established or registered in such a country; or</p> <p>b. A subsidiary of an entity incorporated established or registered in such a country; or</p> <p>c. An entity substantially controlled through entities incorporated, established or registered in such a country; or</p> <p>d. An entity whose beneficial owner is situated in such a country; or</p> <p>e. An Indian (or other) agent of such an entity; or</p> <p>f. A natural person who is a citizen of such a country; or</p> <p>g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.</p> <p>IV. The beneficial owner for the purpose of (III) above will be as under:</p> <p>1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.</p> <p>Explanation</p> <p>a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company.</p> <p>b. "Control" shall include the right to appoint majority of the directors or to control the</p>	

(Signature of the Vendor with Seal)



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		<p>management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements.</p> <ol style="list-style-type: none">2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership.3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person has ownership of or entitlement to more than fifteen percent of the property or capital or profits of the such association or body of individuals.4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership. <p>V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person. Note:</p> <p>(i) The bidder shall provide undertaking for their compliance to this Clause, in the format provided in Annexure-13.</p> <p>Registration of the bidder with Competent Authority should be valid at the time of submission of bids and at the time of acceptance of the bids.</p>	
3.	Documents Checklist:	<p>Please submit signed and stamped copy of your offer on each page along with following documents:</p> <ul style="list-style-type: none">• Buyers' added bid specific additional terms and conditions.• Checklist & Annexures• Technical documents ref. No. 413137A7992 & 41313795992• Purchase Specification document no. ST47034 Rev.03 & ST47025 Rev.03• Addendum of Specification ST47025• BHEL Quality Plan QA_BI_QP_101_REV02• Replica of price bid schedule without prices with Part-I offer.	
4.	Special Term	<p>Techno-commercial terms as confirmed in this Annexure-A shall supersede the similar terms & conditions found contradictory written elsewhere in the offer. Kindly confirm the same.</p>	
5.	Evaluation criteria	<p>Evaluation will be done on the basis of total landed cost to BHEL for complete enquiry, with cost involved for delivery up to BHEL project site considering material cost, taxes & duties, Freight etc. for the complete requirement covered in the Bid.</p>	
6.	Bid validity/ Validity of offer	<p>Please note that validity of the offer shall be 180 days from the date opening of Techno-Commercial bid (Part-I bid) on GeM portal. Offer of bidder's having validity less than 180 days shall be liable to get rejected. Please confirm.</p>	
7.	Prices / Basis of quotation:	<p>The offered prices of the items shall remain firm and fixed till the execution of the contract. Please confirm.</p> <p>Prices should be quoted on door delivery basis up to BHEL project site basis i.e. including all taxes, duties, local levies/ transportation/freight charges, packing & forwarding charges etc. The evaluation currency for this tender shall be INR. Please confirm.</p>	

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		Transit Insurance would be arranged by BHEL and not to be included in the prices. Bidder to quote prices accordingly.	
8.	Special Instruction	<p>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.</p> <p>In case of any confusion / un-clarity on any of the clause / requirement of specification, please clarify the same from BHEL before submission of offer.</p> <p>No deviation & request regarding un-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.</p> <p>Please note and confirm.</p>	
9.	Regarding ITC based evaluation bid	<p>Kindly note that this bid/tender has been availed with 100% ITC (Input tax credit) based evaluation.</p> <p>Bidders shall have to enter their Prices inclusive of all taxes including GST during participation in bid on GeM portal and also bidders to add/input the applicable GST amount in percentage separately as per provision made by GeM in the system.</p> <p>Kindly confirm your compliance to the above and submit your offer on GeM portal accordingly.</p>	
10.	Special Instruction of Technical requirement	<ol style="list-style-type: none">1. Bidders to refer BHEL PQR document, BHEL Technical Document No. 413137A7992 & 41313795992, Specification document ST47034 Rev.03, ST47025 Rev.03 & Its Addendum enclosed with this tender enquiry and submit their valuable offer in GeM portal. The Scope of Supply shall include complete valve along with flanges, gaskets, fasteners etc.2. Bidder to keep Two copies of O&M Manual inside the dispatch box of NRV With AI Flap and also to mention same in vendor's shipping/packing list at the time of dispatches. Also submit PDF copy of O&M Manual to BHEL.3. Supplier to ensure Item TAG Slip with Each & Individual Item of Box contents with proper wrapping/ packaging to take care item safety and its identification upon opening of Box.4. Mandatory Spares needs to be packed in Separate Boxes. Also, Mandatory Spares to be written in Bold letters on all sides of packing boxes and details also be mentioned in Vendor's packing lists.5. Advance Shipping Notification is mandatory for Dolvi project before dispatching the material as ASN is mandatory for Vehicle entry at JSW Dolvi site. Please confirm.6. Material is to be despatched after receipt of MDCC on Door Delivery Basis to respective BHEL project site. Invoice, GR/LR,Bill of Lading (if applicable), Air Way Bill (if applicable), packing lists, Certificate of Origin (if applicable), Test Certificates, O&M Manual, Guarantee Certificate are required in Original along with copy of E-Way bill & MDCC after dispatches.	
11.	Specification confirmation	Kindly confirm that quoted offer by you have been complied all technical requirements as given in tender documents and submit all documents to BHEL as per tender specifications/ drawings without any deviations.	
12.	Quality Requirements	<p>Vendor to confirm and endorse the BHEL SQP QA_BI_QP_117, REV01.</p> <p>Vendor to confirm that Inspection shall be done by BHEL Nominated TPIA (M/s QUEST) As Per BHEL SQP QA_BI_QP_117, REV01.</p>	



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13.	Document submission for approval from BHEL/ Customer	Drawings/ Datasheets/ Quality Plan etc. (whichever are applicable) as called for in the specifications shall be submitted for approval to BHEL for BHEL/customer approval within 30 days of purchase order . Approved documents/QP are to be followed by the supplier without any price implication. Any delay in delivery on account of late submission of drawings/data sheets/QAP/documents shall be to vendors account. BHEL will arrange the approval of the drawings/ datasheets/ documents within 30 days of their receipt provided those are complete in all respect. Delays in approval shall be dealt on merit basis.									
14.	GeM charges	GeM charges if any shall be either side only i.e. buyer's GeM charges shall be in buyer's account and seller's GeM charges shall be on seller's account. Please confirm.									
15.	Contract execution	Bidders are advised to read GeM related query & clarification carefully on GeM portal. Order shall be executed through GeM.									
16.	Payment Terms:	<p>100% payment will be released within tabulated timeline from date of LR Receipt/ material receipt at site (MRC) and On-line submission of bills. Consignee Receipt-Cum-Acceptance Certificate (CRAC) is also required for bill processing.</p> <p>The timeline for payments will be as under:</p> <table border="1" data-bbox="358 827 1357 1041"> <thead> <tr> <th>Type of Bidder</th> <th>Payment Terms (Number of Days from Material receipt at site)</th> </tr> </thead> <tbody> <tr> <td>Micro & Small Enterprises (MSEs)</td> <td>45 days</td> </tr> <tr> <td>Medium Enterprises</td> <td>60 days</td> </tr> <tr> <td>Non MSME</td> <td>90 days</td> </tr> </tbody> </table> <p>Vendor to submit MSME certificate with offer in view of above and claim the same on GeM during offer submission. The Payment terms are subject to receipt of non-discrepant document from supplier. Please confirm.</p>	Type of Bidder	Payment Terms (Number of Days from Material receipt at site)	Micro & Small Enterprises (MSEs)	45 days	Medium Enterprises	60 days	Non MSME	90 days	
Type of Bidder	Payment Terms (Number of Days from Material receipt at site)										
Micro & Small Enterprises (MSEs)	45 days										
Medium Enterprises	60 days										
Non MSME	90 days										
17.	Documents required for Bill processing:	<p>The following documents are required to be sent for Bill Processing:</p> <ul style="list-style-type: none"> • Original Tax Invoice (E-invoice, if the turnover exceeded Rs. 5 cr. in any financial year from 2017-18, else, a declaration for the same is required for processing of bill.) • Original Consignee LR/GR • Packing list • Copy of E-way Bill • Test Certificates/ Inspection Reports • Guarantee Certificate • Copy of MDCC issued by BHEL • Receipted Copy of LR / Proof of delivery (POD) / Material Receipt Certificate (MRC) from BHEL site • GST Compliance Declaration/ Certificate • GeM Invoice • Consignee Receipt Cum Acceptance Certificate (CRAC) • Digitally Signed Invoice along with supporting documents to be uploaded at B2B Portal of BHEL Haridwar. https://suidha.bhel.in/suidha/ • Rest documents as mentioned in the PO remarks. 									



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18.	MDCC clause	<p>Material shall be dispatched only after issue of material dispatch clearance certificate (MDCC) by BHEL. All Test Certificates/ Inspection Reports/COC and relevant documents are to be sent to BHEL before dispatch of material for issue of MDCC, which will be issued after review of test certificates/ inspection reports/COC etc. MDCC will be issued within 07 days of receipt of these documents once found complete in all respects. In case of any delay on account of BHEL in issuing MDCC, delivery shall be extended by no. of days in excess of 7 days taken by BHEL in issuing MDCC and delays shall be dealt on merit basis.</p> <p>Material is to dispatched within 07 days of receipt of MDCC from BHEL without waiting for PO amendment.</p>																																				
19.	Packing	<p>Each item must be tagged with description, quantity & details of mandatory spares as same as in Vendor's Packing List. Kindly confirm.</p> <p>Please ensure proper and sturdy packing suitable for handling at site or during transportation up to site in healthy condition.</p>																																				
20.	Quantity Variation	<p>BHEL reserves the right to cancel tender or reject any or all the quotations without assigning any reasons thereof.</p> <p>BHEL also reserves the right to Increase or decrease the tendered quantities or quantity of individual material code may be dropped as a whole also.</p> <p>Vendors should be prepared to accept order for reduced Quantity without any extra charges. Vendor should also be prepared for giving discount in case of Increase in Quantity.</p> <p>Please confirm.</p>																																				
21.	Delivery Schedule/ Period	<p>Please note that BHEL's Delivery requirements are as follows:</p> <table border="1" data-bbox="358 930 1354 1260"> <thead> <tr> <th>Sl. No.</th> <th>Material Code & Item Description</th> <th>Total Qty of Items in Tender</th> <th>Lot Quantity</th> <th>Lot Delivery</th> <th>Project Name</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td rowspan="2">MATERIAL CODE: W90313137692 NRV WITH ALUMINUM FLAP AS PER DOC.NO.41313795992, ST47034 AND ST47025 & ITS ADDENDUM SPEC: ST47034 REV: 03</td> <td rowspan="2">8 Sets</td> <td>1</td> <td>28-07-26</td> <td rowspan="2">JSW Dolvi</td> </tr> <tr> <td>1</td> <td>28-03-27</td> </tr> <tr> <td rowspan="6">2</td> <td rowspan="6">MATERIAL CODE: W90313137684 NRV WITH ALUMINUM FLAP AS PER DOC.NO.41313795992, ST47034 AND ST47025 & ITS ADDENDUM SPEC: ST47034 REV: 03</td> <td rowspan="6">8 Sets</td> <td>1</td> <td>15-02-27</td> <td>Koderma (St-II) Unit-1</td> </tr> <tr> <td>1</td> <td>30-04-27</td> <td>Yamuna Nagar</td> </tr> <tr> <td>1</td> <td>15-06-27</td> <td>Koderma (St-II) Unit-2</td> </tr> <tr> <td>1</td> <td>04-08-27</td> <td>Raghunathpur (Ph-II) Unit-1</td> </tr> <tr> <td>1</td> <td>08-09-27</td> <td>Singareni</td> </tr> <tr> <td>1</td> <td>04-02-28</td> <td>Raghunathpur (Ph-II) Unit-2</td> </tr> </tbody> </table> <p>Early delivery with respect to above lot wise delivery will be accepted only after written confirmation from BHEL. BHEL reserve rights to reject early delivery request of bidders / suppliers. Delivery period indicated in GeM bid is only indicative and final delivery of tender shall be taken as mentioned above.</p> <p>Accordingly, bidders to confirm the above deliveries or quote their best possible delivery in no of months / weeks from the date of placement of Purchase order, including all activities like document approval, inspection by TPI etc.</p> <p>Kindly confirm.</p>	Sl. No.	Material Code & Item Description	Total Qty of Items in Tender	Lot Quantity	Lot Delivery	Project Name	1	MATERIAL CODE: W90313137692 NRV WITH ALUMINUM FLAP AS PER DOC.NO.41313795992, ST47034 AND ST47025 & ITS ADDENDUM SPEC: ST47034 REV: 03	8 Sets	1	28-07-26	JSW Dolvi	1	28-03-27	2	MATERIAL CODE: W90313137684 NRV WITH ALUMINUM FLAP AS PER DOC.NO.41313795992, ST47034 AND ST47025 & ITS ADDENDUM SPEC: ST47034 REV: 03	8 Sets	1	15-02-27	Koderma (St-II) Unit-1	1	30-04-27	Yamuna Nagar	1	15-06-27	Koderma (St-II) Unit-2	1	04-08-27	Raghunathpur (Ph-II) Unit-1	1	08-09-27	Singareni	1	04-02-28	Raghunathpur (Ph-II) Unit-2	
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22.	Liquidated Damages (LD) for late delivery	<p>If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed Lot per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the total lot value without any controversy/dispute of any sort whatsoever.</p> <p>The date of dispatch mentioned on LR/GR would be treated as the date of delivery for penalty purposes.</p>																																				
23.	GST Penalty	<p>Vendor to provide dispatch documents to BHEL Haridwar in the same month of dispatch of material. In case of delay in submission of the same, Any GST penalty levied due to change of month of billing to End customer with respect to LR date will be borne by vendor. Please confirm.</p>																																				



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24.	Guarantee	<p>Kindly confirm that Guarantee would be provided for trouble free and satisfactory operation of the equipment for a period of “2 Years after Installation & Commissioning or 3 Years from the date of dispatch of equipment, whichever is earlier”. Supplier shall be responsible for free replacement of defective equipment / material at BHEL site. Please note that offers with guarantee period lesser than above mentioned guarantee period may result in rejection of the offer.</p>	
25.	Settlement of Dispute, Conciliation & Arbitration:	<p>Settlement of Dispute If any dispute or difference of any kind whatsoever shall arise between BHEL and the Supplier/Vendor, arising out of the contract for the performance of the work whether during the progress of contract termination, abandonment or breach of the contract, it shall in the first place referred to Designated Officer / IEM for amicable resolution by the parties. Designated Officer / IEM who within 60 days after being requested shall give written notice of his decision to the contractor. Save as hereinafter provided, such decision in respect of every matter so referred shall forthwith be given effect to by the Supplier/Vendor who shall proceed with the work with all due diligence, whether he or BHEL desires to resolve the dispute as hereinafter provided or not. If after the Designated Engineer has given written notice of this decision to the party and no intention to pursue the dispute has been communicated to him by the affected party within 30 days from the receipt of such notice, the said decision shall become final and binding on the parties. In the event the Supplier/Vendor being dissatisfied with any such decision or if amicable settlement cannot be reached then all such disputed issues shall be resolved through conciliation in terms of the BHEL Conciliation Scheme 2018 as per ‘CONCILIATION’ Clause.</p> <p>CONCILIATION: Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the “Dispute”) shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure as per BHEL Conciliation Scheme 2018. The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in - “Procedure for conduct of conciliation proceedings” (as available in www.bhel.com). Note: Ministry of Finance has issued OM reference No. 1/2/24 dated 03.06.2024 regarding “Guidelines for Arbitration and Mediation in Contracts of Domestic Public Procurement. In the said OM it has been recommended that Government departments/ Entities/agencies are to encourage mediation under the Mediation Act. 2023. The said Act has not yet been notified by the Government. Therefore, the clause “Settlement of Disputes” shall be modified accordingly as and when the Mediation Act 2023 gets notified.</p> <p>ARBITRATION: Except as provided elsewhere in this Contract, in case Parties are unable to reach amicable settlement (whether by Conciliation to be conducted as provided herein above or otherwise) in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract (hereinafter referred to as the ‘Dispute’), then, either Party may, refer the disputes to Arbitral Institution and such dispute to be adjudicated by Sole Arbitrator appointed in accordance with the Rules of said Arbitral Institution.</p> <p>A party willing to commence arbitration proceeding shall invoke Arbitration Clause by giving notice to the other party in terms of section 21 of the Arbitration & Conciliation Act, 1996 (hereinafter referred to as the ‘Notice’) before referring the matter to arbitral institution. The Notice shall be addressed to the Head of the Region, Power Sector/ Unit, BHEL, executing the Contract and shall contain the particulars of all claims to be referred to arbitration with sufficient detail and shall also indicate the monetary amount of such claim including interest, if any.</p> <p>After expiry of 30 days from the date of receipt of aforesaid notice, the party invoking the Arbitration shall submit that dispute to the Arbitral Institutions (shall be identified by the contract issuing agency) and that dispute shall be adjudicated in accordance with their respective Arbitration Rules. The matter</p>	



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shall be adjudicated by a Sole Arbitrator who shall necessarily be a Retd Judge having considerable experience in commercial matters to be appointed/nominated by the respective institution. The cost/expenses pertaining to the said Arbitration shall also be governed in accordance with the Rules of the respective Arbitral Institution. The decision of the party invoking the Arbitration for reference of dispute to a specific Arbitral institution for adjudication of that dispute shall be final and binding on both the parties and shall not be subject to any change thereafter. The institution once selected at the time of invocation of dispute shall remain unchanged.

The fee and expenses shall be borne by the parties as per the Arbitral Institutional rules.

The Arbitration proceedings shall be in English language and the seat and venue of Arbitration shall be at the court(s) of Haridwar.

Subject to the above, the provisions of Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matters relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at Haridwar , shall have exclusive jurisdiction.

Notwithstanding any reference to the Designated Engineer or Conciliation or Arbitration herein, a. the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree. Settlement of Dispute clause cannot be invoked by the Contractor, if the Contract has been mutually closed or 'No Demand Certificate' has been furnished by the Contractor or any Settlement Agreement has been signed between the Employer and the Contractor.

It is agreed that Mechanism of resolution of disputes through arbitration shall be available only in the cases where the value of the dispute is less than Rs. 10 Crores.

In case the disputed amount Claim, Counter claim including interest is Rs. 10 crores and above, the parties shall be within their rights to take recourse to remedies other than Arbitration, as may be available to them under the applicable laws after prior intimation to the other party. Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof as amended from time to time, shall apply to the arbitration proceedings under this clause.

In case, multiple arbitrations are invoked (whether sub-judice or arbitral award passed) by any party to under this contract, then the cumulative value of claims (including interest claimed or awarded) in all such arbitrations shall be taken in account while arriving at the total claim in dispute for the subject contract for the purpose of clause mentioned above. Disputes having cumulative value of less than 10 crores shall be resolved through arbitration and any additional dispute shall be adjudicated by the court of competent jurisdiction.

26. Breach of Contract, Remedies and Termination:

The following shall amount to breach of contract:

- I. Non-supply of material/ non-completion of work by the Supplier/Vendor within scheduled delivery/ completion period as per contract or as extended from time to time.
- II. The Supplier/Vendor fails to perform as per the activity schedule and there are sufficient reasons even before expiry of the delivery/ completion period to justify that supplies shall be inordinately delayed beyond contractual delivery/ completion period.
- III. The Supplier/Vendor delivers equipment/ material not of the contracted quality.
- IV. The Supplier/Vendor fails to replace the defective equipment/ material/ component as per guarantee clause.
- V. Withdrawal from or abandonment of the work by the Supplier/Vendor before completion as per contract.
- VI. Assignment, transfer, subletting of Contract by the Supplier/Vendor without BHEL's written permission resulting in termination of Contract or part thereof by BHEL.
- VII. Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor.
- VIII. Any other reason(s) attributable to Vendor towards failure of performance of contract. In case



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of breach of contract, BHEL shall have the right to terminate the Purchase Order/ Contract either in whole or in part thereof without any compensation to the Supplier/Vendor.

IX. Any of the declarations furnished by the contractor at the time of bidding and/ or entering into the contract for supply are found untruthful and such declarations were of a nature that could have resulted in non-award of contract to the contractor or could expose BHEL and/ or Owner to adverse consequences, financial or otherwise.

X. Supplier/Vendor is convicted of any offence involving corrupt business practices, antinational activities or any such offence that compromises the business ethics of BHEL, in violation of the Integrity Pact entered into with BHEL has the potential to harm the overall business of BHEL/ Owner.

Note-Once BHEL considers that a breach of contract has occurred on the part of Supplier/Vendor, BHEL shall notify the Supplier/Vendor by way of notice in this regard. Contractor shall be given an opportunity to rectify the reasons causing the breach of contract within a period of 14 days.

In case the contractor fails to remedy the breach, as mentioned in the notice, to the satisfaction of BHEL, BHEL shall have the right to take recourse to any of the remedial actions available to it under the relevant provisions of contract.

Remedies in case of Breach of Contract.

i) Wherein the period as stipulated in the notice issued under above clause has expired and Supplier/Vendor has failed to remedy the breach, BHEL will have the right to terminate the contract on the ground of "Breach of Contract" without any further notice to contractor.

ii) Upon termination of contract, BHEL shall be entitled to recover an amount equivalent to 10% of the Contract Value for the damages on account of breach of contract committed by the Supplier/Vendor. This amount shall be recovered by way of encashing the security instruments like performance bank guarantee etc available with BHEL against the said contract. In case the value of the security instruments available is less than 10% of the contract value, the balance amount shall be recovered from other financial remedies (i.e. available bills of the Supplier/Vendor, retention amount, from the money due to the Supplier/Vendor etc. with BHEL) or the other legal remedies shall be pursued.

iii) wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10% of the contract value or more, such security instruments to the extent of 10% contract value will be encashed. In case no security instruments are available or the value of the security instruments available is less than 10% of the contract value, the 10% of the contract value or the balance amount, as the case may be, will be recovered in all or any of the following manners:

iv) In case the amount recovered under sub clause (a) above is not sufficient to fulfil the amount recoverable then; a demand notice to deposit the balance amount within 30 days shall be issued to Supplier/Vendor.

v) If Supplier/Vendor fails to deposit the balance amount within the period as prescribed in demand notice, following action shall be taken for recovery of the balance amount:

a) from dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract.

b) If it is not possible to recover the dues available from the same contract or dues are insufficient to meet the recoverable amount, balance amount shall be recovered from any money(s) payable to Supplier/Vendor under any contract with other Units of BHEL including recovery from security deposits or any other deposit available in the form of security instruments of any kind against Security deposit or EMD.

vi) In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier/Vendor.

vii) It is an agreed term of contract that this amount shall be a genuine pre-estimate of damages that BHEL would incur in completion of balance contractual obligation of the contract through any



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		<p>other agency and BHEL will not be required to furnish any other evidence to the Supplier/Vendor for the purpose of estimation of damages.</p> <p>viii) In addition to the above, imposition of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract.</p> <p>Note:</p> <p>1) The defaulting Supplier/Vendor shall not be eligible for participation in any of the future enquiries floated by BHEL to complete the balance work. The defaulting contractor shall mean and include:</p> <p>(a) In case defaulted Supplier/Vendor is the Sole Proprietorship Firm, any Sole Proprietorship Firm owned by same Sole Proprietor.</p> <p>(b) In case defaulted Supplier/Vendor is The Partnership Firm, any firm comprising of same partners/ some of the same partners; or sole proprietorship firm owned by any partner(s) as a sole proprietor.</p>	
27.	Suspension of Business Dealings with Suppliers / Contractors:	<p>The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms / principal / agents, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.</p> <p>If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in any act, including but not limited to, mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or tampers the tendering process or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860(Bhartiya Nyaya Samhita 2023) or any other law in force in India, or does anything which is actionable under the Guidelines for Suspension of Business dealings, action may be taken against such bidder / supplier / contractor as per extant guidelines of the company available on www.bhel.com and / or under applicable legal provisions. Guidelines for suspension of business dealings is available in the webpage: http://www.bhel.com/vender_registration/vender.php.</p>	
28.	Conflict of Interest Among Bidders/ Agents	<p>A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:</p> <p>a) they have controlling partner (s) in common; or</p> <p>b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or</p> <p>c) they have the same legal representative/agent for purposes of this bid; or</p> <p>d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder, or</p> <p>e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from. one bidding manufacturer in more than one bid; or</p> <p>f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:</p> <p>1. The principal manufacturer directly or through one Indian agent on his behalf; and</p> <p>2. Indian/foreign agent on behalf of only one principal, ·</p> <p>or</p> <p>g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid, or</p> <p>h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business. "</p>	



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<p>29. Micro and Small Enterprises (MSE):</p>	<p>Any Bidder falling under MSE category shall furnish the following details & submit documentary evidence/ Govt. Certificate etc. in support of the same along with their techno-commercial offer.</p> <table border="1" data-bbox="358 380 1292 527"> <thead> <tr> <th>Type under MSE</th> <th>SC/ST owned</th> <th>Women owned</th> <th>Others (excluding SC/ ST & Women Owned)</th> </tr> </thead> <tbody> <tr> <td>Micro</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Small</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Note: If the bidder does not furnish the above, offer shall be processed construing that the bidder is not falling under MSE category. a) MSE suppliers can avail the intended benefits in respect of the procurements related to the Goods and Services only (Definition of Goods and Services as enumerated by Govt. of India vide Office Memorandum F. No. 21(8)/2011-MA dtd. 09/11/2016 office of AS & DC, MSME) only if they submit along with the offer, attested copies of either Udyam Registration. Date to be reckoned for determining the deemed validity will be the last date of Technical Bid submission. Non-submission of supporting document in GeM portal will lead to consideration of their bids at par with other bidders. No benefits shall be applicable for this enquiry if the above required documents are not uploaded at the time of bid submission. Documents submitted by the bidder shall be verified by BHEL for rendering the applicable benefits.</p>	Type under MSE	SC/ST owned	Women owned	Others (excluding SC/ ST & Women Owned)	Micro				Small				
Type under MSE	SC/ST owned	Women owned	Others (excluding SC/ ST & Women Owned)											
Micro														
Small														
<p>30. Jurisdiction:</p>	<p>This contract shall be governed by the Law for the time being in force in the Republic of India. Subject to clause(s) mentioned above of this contract, the Civil Court having original Civil Jurisdiction at Haridwar shall alone have exclusive jurisdiction in regard to all matters in respect of the Contract.</p>													
<p>31. Force Majeure</p>	<p>"Force Majeure" shall mean circumstance which is: a) beyond control of either of the parties to contract, b) either of the parties could not reasonably have provided against the event before entering into the contract, c) having arisen, either of the parties could not reasonably have avoided or overcome, and d) is not substantially attributable to either of the parties And Prevents the performance of the contract, Such circumstances include but shall not be limited to: i) War, hostilities , invasion, act of foreign enemies. ii) Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war. iii) Riot, commotion or disorder by persons other than the contractor's personnel and other employees of the contractor and sub-contractors. iv) Strike or lockout not solely involving the contractor's personnel and other employees of the contractor and sub-contractors. v) Encountering munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the contractor's use of such munitions, explosives, radiation or radio- activity. vi) Natural catastrophes such as earthquake, tsunami, volcanic activity, hurricane or typhoon, flood, fire, cyclones etc. vii) Epidemic, pandemic etc.</p> <p>The following events are explicitly excluded from Force Majeure and are solely the responsibilities of the non-performing party: a) any strike, work-to-rule action, go slow or similar labour difficulty (b) late delivery of equipment or material (unless caused by Force Majeure event) and (c) economic hardship.</p> <p>If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within 15 (fifteen) days after the occurrence of such event. The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The Time for Completion shall be extended by a period of time equal to period of delay caused due to such Force Majeure event.</p> <p>Delay or non-performance by either party hereto caused by the occurrence of any event of Force Majeure shall not</p> <p>i) Constitute a default or breach of the Contract. ii) Give rise to any claim for damages or additional cost expense occasioned thereby, if and to the extent that such delay or non-performance is caused by the</p>													



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		occurrence of an event of Force Majeure. BHEL at its discretion may consider short closure of contract after 1 year of imposition of Force Majeure in line with extant guidelines. In any case, Supplier/Vendor cannot consider deemed short-closure after 1 year of imposition of Force Majeure.	
32.	Cartel Formation	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.	
33.	Fraud Prevention Policy:	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.	
34.	Action against Bidder/ vendor/ supplier/ contractor in case of default:	In order to protect the commercial interests of BHEL, BHEL shall take action against supplies / 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, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc. Suspension of Business Dealings could be in the form of "Hold" or "Banning" a supplier/ contractor or a bidder and shall be as per "Guidelines for Suspension of Business Dealings with Suppliers/ Contractors" available at BHEL's website. https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors	
35.	Order of Precedence:	In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below: a. Amendments/Clarifications/Corrigenda/Errata etc. issued in respect of the tender documents by BHEL. b. Buyer Added Bid Specific ATC c. GeM Bid Technical Conditions of Contract (TCC) d. GeM GTC	
36.	Bid to RA	Applicable as per GeM NIT	
37.	Note:	<ol style="list-style-type: none">1. In the event of our customer order covering this tender being cancelled /placed on hold /otherwise modified, BHEL would be constrained to accordingly cancel / hold / modify the tender at any stage of execution.2. BHEL may negotiate the L1 rate, if not meeting our budget / estimated cost. BHEL may re-float the tender opened, if L1 price is not acceptable to BHEL even after negotiation. Any deviation from the conditions specified in Techno-Commercial Terms and Conditions - Buyer Added Bid Specific Additional Terms & Conditions (ATC) and Technical specifications and requirements will lead to rejection of offer.3. Any change in applicable rates of Tax or any other statutory levies (Direct / Indirect) or any new introduction of any levy by means of statute and its corresponding liability for the deliveries beyond the agreed delivery date for reasons not attributable to BHEL will be to vendors account. BHEL will not reimburse the same and any subsequent claim in this respect will be summarily rejected.4. BHEL reserves its right to reject an offer due to unsatisfactory past performance by the respective Vendor in the execution of any contract to any BHEL project / Unit.5. The offers of the bidders who are under suspension and also the offers of the bidders, who engage the services of the banned firms /principal/agents, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com.6. Recovery / deduction as applicable as per Direct and Indirect taxes as notified by Govt. Of India from time to time will be made and information/certificate for such deduction/recoveries shall be provided by BHEL to the vendor.	

(Signature of the Vendor with Seal)



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38. Enclosure:	<ol style="list-style-type: none">1. Annexure-1: Check List. -Applicable2. Annexure-2: Offer forwarding letter / tender submission letter -Applicable3. Annexure-3: No Deviation Certificate -Applicable4. Annexure-4: Declaration regarding Insolvency/ Liquidation/ Bankruptcy Proceedings -Applicable5. Annexure-5: Declaration by Authorized Signatory -Applicable (if required)6. Annexure-6: Declaration by Authorized Signatory regarding Authenticity of submitted Documents -Applicable7. Annexure-7: Non-Disclosure Certificate –Not Applicable8. Annexure-8: Integrity Pact –Not Applicable9. Annexure-9: Declaration confirming knowledge about Site Conditions –Not Applicable10. Annexure-10: Declaration reg. Related Firms & their areas of Activities –Applicable11. Annexure-11: Declaration for relation in BHEL –Applicable12. Annexure- 12: Declaration reg. minimum local content in line with revised public procurement –Applicable13. Annexure- 13: Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017 –Applicable14. Annexure-14: Bank Account Details for E-Payment – Applicable for Successful Vendor15. Annexure-15: Power of Attorney for submission of tender. –Not Applicable16. Annexure-16: Proforma of Bank Guarantee for Earnest Money. –Not Applicable17. Annexure-17: Proforma of Bank Guarantee for Performance Security. –Not Applicable18. Annexure-18: List of Consortium Bank. –Not Applicable19. Annexure-19: Declaration for treatment of cases regarding conflict of interest. – Applicable.	
39. Contact detail of Bidder:	<p>For necessary communication, bidders are requested to provide the below details -</p> <p>1.Name of Contact Persons & Mobile numbers:</p> <p>_____</p> <p>_____</p> <p>2. Official email ids (at least two or three email id): _____</p> <p>_____</p> <p>3. Works address / Location:</p> <p>_____</p> <p>_____</p>	



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40.	For clarifications:	Bid should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else bid shall be liable for rejection. In the event of any Technical or Commercial queries, the same may please be addressed to the following BHEL concerned before Part I opening –	
		Mr. Rahul Kumar Rahi Designation: Engineer (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: rkrahi@bhel.in Tel: +91 1334 28 1707	Mr. Sagar Gupta Designation: Manager (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: sagargupta@bhel.in Tel: +91 1334 28 1045

41.	<p><u>PRE-QUALIFICATION REQUIREMENTS:</u></p> <p><u>Description:</u> These valves are single plate (Flap material = Aluminum) type valve and are installed in horizontal run of pipe after each vapor exhauster to prevent the backward flow of air steam mixture in case of vapor exhauster under maintenance.</p> <p><u>Mandatory requirements for Pre-Qualification:</u></p> <p>1. The bidder who must be OEM and should have successfully designed, manufactured, tested & supplied Single plate check/NRV valve (as given in Fig.1). Vendor should have experience of supply of min. one (1) no. in at least one power/process plants in last seven (7) years from the date of issuance of our enquiry with following technical details mentioned in Table-1.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><u>Fig.1</u></p> </div> <div style="text-align: center;"> <p><u>Table-1</u></p> <table border="1"> <tr> <td>Valve Type</td> <td>Single Plate Check/NRV valve</td> </tr> <tr> <td>Valve Size Range</td> <td>NB125 & above</td> </tr> <tr> <td>Body Type</td> <td>Wafer</td> </tr> <tr> <td>Valve Class Rating</td> <td>CL150 or higher as per ASME16.34 or equivalent standard</td> </tr> <tr> <td>Valve Body Material</td> <td>Cast Steel-A216Gr.B or higher grade</td> </tr> </table> </div> </div>	Valve Type	Single Plate Check/NRV valve	Valve Size Range	NB125 & above	Body Type	Wafer	Valve Class Rating	CL150 or higher as per ASME16.34 or equivalent standard	Valve Body Material	Cast Steel-A216Gr.B or higher grade
Valve Type	Single Plate Check/NRV valve										
Valve Size Range	NB125 & above										
Body Type	Wafer										
Valve Class Rating	CL150 or higher as per ASME16.34 or equivalent standard										
Valve Body Material	Cast Steel-A216Gr.B or higher grade										



PPX-BOI DEPARTMENT
BHARAT HEAVY ELECTRICALS LIMITED
HEEP: HARDWAR-249 403 (Uttarakhand)
FAX: +91 1334 226462 TEL: +91 1334 28 1707

PACKAGE- NRV With AI Flap As Per Document No. 413137A7992 & 41313795992, ST47034 Rev.03, ST47025 Rev.03 & Its Addendum
PROJECT: JSW Dolvi, Koderma (Ph-II) Unit-1&2, Yamuna Nagar, DVC Raghunathpur (Ph-II) Unit-1&2 and Singareni Projects

2. The vendor to fill the P.O. ref. no. & date in below given table, which meets all check marked criteria given in above sl.no.1 & Table-1.

Table-2

P.O. Ref. No.	P.O. date	Valve type	Valve Size	Body type	Valve Class Rating	Valve Body material
		Single Plate Check/NRV valve	NB125 & above	Wafer	CL150 or higher as per ASME16.34	Cast Steel-A216Gr.B or higher grade
		✓	✓	✓	✓	✓

- Executed unpriced Purchase order (P.O.) should not be older than seven (7) years from the date of issuance of enquiry.
- Dispatch document w.r.t above mentioned executed P. O. i.e. Valve GA drawing, Tax invoice, Inspection report & Lorry way bill for our review.
- Suppliers, who have supplied above mentioned valve to BHEL-Haridwar, to furnish only P.O ref. for our review.

Note: -

- BHEL reserves the right to verify the information submitted by vendor. Submission of false/incorrect information shall lead to rejection of offer.
- 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.
- 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.

----- End of PQR. -----

SPECIAL NOTE FOR BIDDER:

Following documents are an integral part of this tender enquiry and endorsed copies of these documents (duly signed and stamped on each page, as a token of acceptance) are to be uploaded along with offer on GEM portal.

- Please submit signed & Stamped copy (each page) of duly filled of confirmation column of "BUYER ADDED BID SPECIFIC ADDITIONAL TERMS AND CONDITIONS" and its clause wise supporting documents where required.
- Any other documents required to be submitted as per your offer.
- In case of blank document of Annexure-A of Buyer's Specific Terms & Conditions will be endorsed and submitted by bidder then it shall be deemed acceptable.
- Copy/Replica of Price schedule (without prices) mentioning "Quoted' in place of price along with your techno-commercial (Part-1) offer.

(Signature of the Vendor with Seal)

CHECK LIST

NOTE: - Suppliers are required to fill in the following details in their Letterhead and no column should be left blank

A	Name and Address of the Supplier		
B	GSTN No. the Supplier (Place of Execution of Contract / Purchase Order)		
C	Details of Contact person for this Tender	Name: Mr./ Ms. Designation: Telephone No: Mobile No: Email ID:	
D	EMD DETAILS		
E	DESCRIPTION	APPLICABILITY (BY BHEL)	ENCLOSE BY BIDDER
i.	Whether Pre - Qualification Criteria is understood and provided proper supporting documents.	Applicable/ Not Applicable	YES / NO
ii.	Whether all pages of the Tender documents are read and understood	Applicable/ Not Applicable	YES / NO
iii.	Audited Balance Sheet and profit & Loss Account for the last three years	Applicable/ Not Applicable	YES / NO
iv.	Copy of PAN Card & GST registration	Applicable/ Not Applicable	YES / NO
v.	Submission of MSE certificate as specified in Tender	Applicable/ Not Applicable	YES / NO
vi.	Offer forwarding letter / tender submission letter as per Annexure – 2	Applicable/ Not Applicable	YES / NO
vii.	Submission of Certificate of No Deviation as per Annexure – 3	Applicable/ Not Applicable	YES / NO
viii.	Declaration regarding Insolvency/ Liquidation/Bankruptcy Proceedings as per Annexure – 4	Applicable/ Not Applicable	YES / NO
ix.	Declaration by Authorized Signatory as per Annexure – 5	Applicable/ Not Applicable	YES / NO

x.	Declaration by Authorized Signatory regarding Authenticity of submitted Documents Annexure – 6	Applicable/ Not Applicable	YES / NO
xi.	Submission of Non-Disclosure Certificate as per Annexure – 7	Applicable/ Not Applicable	YES / NO
xii.	Submission of Integrity Pact as specified in Tender as per Annexure – 8	Applicable/ Not Applicable	YES / NO
xiii.	Declaration confirming knowledge about Site Conditions as per Annexure – 9	Applicable/ Not Applicable	YES / NO
xiv.	Declaration reg. Related Firms & their areas of Activities as per Annexure – 10	Applicable/ Not Applicable	YES / NO
xv.	Declaration for relation in BHEL as per Annexure – 11	Applicable/ Not Applicable	YES / NO
xvi.	Declaration reg. minimum local content in line with revised public procurement as per Annexure – 12	Applicable/ Not Applicable	YES / NO
xvii.	Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017 as per Annexure – 13	Applicable/ Not Applicable	YES / NO
xviii.	Bank Account Details for E-Payment as per Annexure – 14	Applicable/ Not Applicable	YES / NO
xix.	Power of Attorney for submission of tender as per Annexure – 15	Applicable/ Not Applicable	YES / NO
xx.	Proforma of Bank Guarantee for Earnest Money as per Annexure – 16	Applicable/ Not Applicable	YES / NO
xxi.	Proforma of Bank Guarantee for Performance Security as per Annexure – 17	Applicable/ Not Applicable	YES / NO
xxii.	List of Consortium Bank as per Annexure – 18	Applicable/ Not Applicable	YES / NO
xxiii.	Declaration for treatment of cases regarding conflict of interest as per Annexure – 19	Applicable/ Not Applicable	YES / NO

NOTE: Strike off 'YES' or 'NO', as applicable. Tender not accompanied by the prescribed **above applicable documents** are liable to be summarily rejected.

DATE:

**Sign. of the AUTHORISED SIGNATORY
(With Name, Designation and Company seal)**

OFFER FORWARDING LETTER / TENDER SUBMISSION LETTER

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

Offer Reference No:

Date:

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Submission of Offer against Tender Enquiry No:

Having examined the tender documents against your Tender Enquiry No. _____
_____ dated _____ and having understood the provisions of the said tender documents
and having thoroughly studied the requirements of BHEL related to the work tendered for, in connection
with _____ (name of work & project site), we hereby submit
our offer for the proposed work in accordance with terms and conditions mentioned in the tender
documents, at the prices quoted by us and as per the indicated delivery schedule.

Should our Offer be accepted by BHEL for Award, I/we further agree to furnish 'Performance Security'
for the work as provided for in the Tender Conditions within the stipulated time as may be indicated by
BHEL.

I/We further agree to execute all the works referred to in the said Tender documents upon the terms
and conditions contained or referred to therein and as detailed in the appendices annexed thereto.

I/We have deposited herewith the requisite Earnest Money Deposit (EMD) as per details furnished in the
Check List.

Authorized Representative of Bidder

Signature:

Name:

Address:

Place:

Date:

CERTIFICATE OF NO DEVIATION

(To be Typed & submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Subject: **No Deviation Certificate**

Ref: 1) Tender Enquiry No:,
2) All other pertinent issues till date

We hereby confirm that we have not changed/ modified/materially altered any of the tender documents as downloaded from the website/ issued by BHEL and in case of such observance at any stage, it shall be treated as null and void.

We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred Tender Enquiry.

We further confirm our unqualified acceptance to all Terms and Conditions, unqualified compliance to Tender Conditions.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

**(Signature, date & seal of authorized
representative of the bidder)**

Date:

Place:

UNDERTAKING

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir/Madam,

Sub: DECLARATION REGARDING INSOLVENCY/ LIQUIDATION/ BANKRUPTCY PROCEEDINGS

Ref: Tender Enquiry Specification No:

I/We, _____ declare that,

I/We am/are not admitted under insolvency resolution process or liquidation under Insolvency and Bankruptcy Code, 2016, as amended from time to time or under any other law as on date, by NCLT or any adjudicating authority/authorities.

**Sign. of the AUTHORISED SIGNATORY
(With Name, Designation and Company seal)**

Place:

Date:

DECLARATION BY AUTHORISED SIGNATORY OF BIDDER

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: **Declaration by Authorised Signatory**

Ref: 1) Tender Enquiry Specification No:

2) All other pertinent issues till date

I/We, hereby certify that all the information and data furnished by me with regard to the above Tender Specification are true and complete to the best of my knowledge. I have gone through the specifications, conditions, stipulations and all other pertinent issues till date, and agree to comply with the requirements and Intent of the specification.

I further certify that I am authorized to represent on behalf of my Company/Firm for the above-mentioned tender and a valid Power of Attorney to this effect is also enclosed.

Yours faithfully,

(Signature, Date & Seal of Authorized
Signatory of the Bidder)

Date:

Enclosed: Power of Attorney

DECLARATION BY AUTHORISED SIGNATORY OF BIDDER

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub : **Declaration by Authorised Signatory regarding Authenticity of submitted documents.**

Ref : 1) Tender Enquiry No. & Date:

2) All other pertinent issues till date

I/We, hereby certify that all the documents submitted by us in support of possession of "Qualifying Requirements" are true copies of the original and are fully compliant required for qualifying / applying in the bid and shall produce the original of same as and when required by Bharat Heavy Electricals Limited.

I / We hereby further confirm that no tampering is done with documents submitted in support of our qualification as bidder. I / We understand that at any stage (during bidding process or while executing the awarded contract) if it is found that fake / false / forged bid qualifying / supporting documents / certificates were submitted, it would lead to summarily rejection of our bid / termination of contract. BHEL shall be at liberty to initiate other appropriate actions as per the terms of the Bid / Contract and other extant policies of Bharat Heavy Electricals Limited.

Yours faithfully,

**(Signature, Date & Seal of Authorized
Signatory of the Bidder)**

Date:

DECLARATION

Date: _____

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir/ Madam,

Sub: **Details of related firms and their area of activities**

Please find below details of firms owned by our family members that are doing business/ registered for same item with BHEL, _____ (NA, if not applicable)

1	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	
2	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	
...		

Note: I certify that the above information is true and I agree for penal action from BHEL in case any of the above information furnished is found to be false.

Regards,

(_____)

From: M/s _____

Supplier Code: _____

Address: _____

DECLARATION FOR RELATION IN BHEL

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder failing which the offer of Bidder is liable to be summarily rejected)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration for relation in BHEL

Ref: 1) Tender Enquiry Specification No:

I/We hereby submit the following information pertaining to relation/relatives of Proprieter/Partner(s)/ Director(s) employed in BHEL

Tick (√) any one as applicable:

1. The Proprieter, Partner(s), Director(s) of our Company/Firm DO NOT have any relation or relatives employed in BHEL

OR

2. The Proprieter, Partner(s), or Director(s) of our Company/Firm HAVE relation/relatives employed in BHEL and their particulars are as below:
 - i.
 - ii.

(Signature, Date & Seal of Authorized Signatory of the Bidder)

Note:

1. Attach separate sheet, if necessary.
2. If BHEL Management comes to know at a later date that the information furnished by the Bidder is false, BHEL reserves the right to take suitable against the Bidder/Contractor.

**DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017 DATED 19TH
JULY, 2024 AND SUBSEQUENT ORDER(S)**

(To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 19th July, 2024 and subsequent order(s).

Ref: 1) Tender Enquiry Specification No:
2) All other pertinent issues till date

We hereby certify that the items/works/services offered by..... *(specify the name of the organization here)* has a local content of _____ % and this meets the local content requirement for '**Class-I local supplier**' / '**Class II local supplier**' ** as defined in Public Procurement (Preference to Make in India), Order 2017-Revision dated 04.06.2020 issued by DPIIT and subsequent order(s).

The details of the location(s) at which the local value addition is made are as follows:

1. _____ 2. _____

3. _____ 4. _____

...

Thanking you,
Yours faithfully,

**(Signature, Date & Seal of
Authorized Signatory of the Bidder)**

**** - Strike out whichever is not applicable.**

Note:

1. Bidders to note that above format, duly filled & signed by authorized signatory, shall be submitted along with the techno-commercial offer.
2. In case the bidder's quoted value is in excess of Rs. 10 crores, the authorized signatory for this declaration shall necessarily be the statutory auditor or cost auditor of the company (in the case of companies) or a practising cost accountant or practicing chartered accountant (in respect of suppliers other than companies).
3. In the event of false declaration, actions as per the above order and as per BHEL Guidelines shall be initiated against the bidder.

DECLARATION REGARDING COMPLIANCE TO RESTRICTIONS UNDER RULE 144 (xi) OF GFR 2017

(To be typed and submitted in the Letter Head of the Entity/ Firm providing certificate as applicable)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017

Ref: 1) Tender Enquiry Specification No:
2) All other pertinent issues till date

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 _____ (**SPECIFY THE NAME OF THE ORGANIZATION HERE**), is not from such a country/ has been registered with the Competent Authority (*attach valid registration by the Competent Authority, i.e., the Registration Committee constituted by the Dept. for Promotion of Industry and Internal Trade (DPIIT)*).

I hereby certify that we fulfil all requirements in this regard and is eligible to be considered.

Thanking you,
Yours faithfully,

**(Signature, Date & Seal of
Authorized Signatory of the Bidder)**

Note: Bidders to note that in case above certification given by a bidder, whose bid is accepted, is found to be false, then this would be a ground for immediate termination and for taking further action in accordance with law and as per BHEL guidelines.

Declaration for treatment of cases regarding conflict of interest

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration for treatment of cases regarding conflict of interest

Ref: Tender Reference No:

The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations:

- i. If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly;
- ii. The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;
- iii. Procurement of goods directly from the manufacturers/suppliers shall be preferred. However, if the OEM/Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/ supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorized distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.
- iv. A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.

The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. 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, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines.

(Signature of the authorized signatory of the bidder)



**PRE-QUALIFICATION REQUIREMENT(PQR)
FOR
NRV WITH ALUMINIUM FLAP (BI014)**

STE-TL

Page 1 of 1

Description:

These valves are single plate (Flap material = Aluminum) type valve and are installed in horizontal run of pipe after each vapor exhauster to prevent the backward flow of air steam mixture in case of vapor exhauster under maintenance.

Mandatory requirements for Pre-Qualification:

- The bidder who must be OEM and should have successfully designed, manufactured, tested & supplied Single plate check/NRV valve (as given in Fig.1). Vendor should have experience of supply of min. one (1) no. in at least one power/process plants in last seven (7) years from the date of issuance of our enquiry with following technical details mentioned in Table-1.

Fig.1

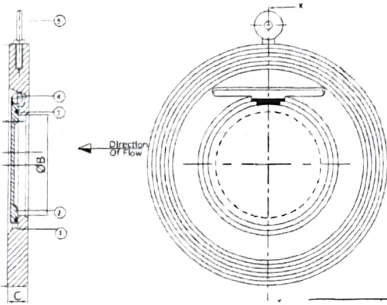


Table-1

Valve Type	Single Plate Check/NRV valve
Valve Size Range	NB125 & above
Body Type	Wafer
Valve Class Rating	CL150 or higher as per ASME16.34 or equivalent standard
Valve Body Material	Cast Steel-A216Gr.B or higher grade

- The vendor to fill the P.O. ref. no. & date in below given table, which meets all check marked criteria given in above sl.no.1 & Table-1.

Table-2

P.O. Ref. No.	P.O. date	Valve type	Valve Size	Body type	Valve Class Rating	Valve Body material
		Single Plate Check/NRV valve	NB125 & above	Wafer	CL150 or higher as per ASME16.34	Cast Steel-A216Gr.B or higher grade
		✓	✓	✓	✓	✓

- Executed unpriced Purchase order (P.O.) should not be older than seven (7) years from the date of issuance of enquiry.
- Dispatch document w.r.t above mentioned executed P. O. i.e. Valve GA drawing, Tax invoice, Inspection report & Lorry way bill for our review.
- Suppliers, who have supplied above mentioned valve to BHEL-Haridwar, to furnish only P.O ref. for our review.

Note: -

- BHEL reserves the right to verify the information submitted by vendor. Submission of false/incorrect information shall lead to rejection of offer.
- 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.
- 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.

----- End of PQR. -----

WORKED BY	SUNIL KR. SHARMA, Sr. Engineer /STE-TL	
CHECKED BY	NAVNEET CHAKRAPANI, Manager /STE-TL	
APPROVED BY	ANUJ JAIN, Sr. DGM /STE-TL	

APPLICATION : STEAM TURBINE
ITEM : NRV WITH ALUMINIUM FLAP
DOC. NO. : 413137A7992
ITEM CODE : W90313137692

1. NRV WITH ALUMINIUM FLAP DN125, PN16. AS PER SL. NO. 1,2 OF ST47034
TAG NO. MAV82AA001& MAV82AA002
2. NRV WITH ALUMINIUM FLAP DN200, PN16 TAG NO. MAW80AA031 & MAW80AA036

FLOW THROUGH THE VALVE – 0.4m³/sec.

MEDIUM – HOT AIR/WATER VAPOUR

PRESSURE – 1.1kg/cm²

TEMPERATURE – 80°C

PD ALLOWED – 100 mmwc

GENERAL REQUIREMENTS– – ST47025/ST47034

PREPARED BY

APPROVED BY

(ANUPAM)

(S.K GUPTA)

PED, BHEL, HARDWAR

PED, BHEL, HARDWAR

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 - $1.1\text{kg}/\text{cm}^2$

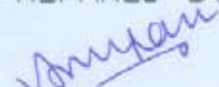
TEMPERATURE - 100°C

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



उत्पाद मानक

STEAM TURBINE ENGINEERING
PRODUCT STANDARD

ST47025
HW0690097

पृष्ठ 4 का 1

Page 1 of 4

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.

SUPERSEDES INVENTORY NO.

समग्री सूची संख्या को अधिकृतित करता है

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स्वत्वाधिकार एवं गोपनीय

इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रयुक्त एवं अप्रयुक्त रूप से किसी भी तरह प्रयोग, जो कि कानूनी के हित में हानिदायक हो न किया जाए।


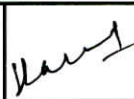

हस्ताक्षर एवं दिनांक
SIGN & DATE



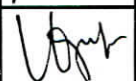

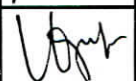

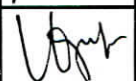
26.7.04




समग्री सूची संख्या INVENTORY NO

P-5522

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 DEPT.	नाम NAME	जांचकर्ता CHECKED BY	V.K. GUPTA
	दिनांक एवं हस्ताक्षर DATE & SIGNATURE	पर्यवेक्षणकर्ता SUPERVISED BY	V.K. GUPTA
REAFFIRMED		प्रयोजित APPROVED	
REV. NO. 03	Checked By	निर्माण PREPARED : STE	दिनांक : DATE :
Dt. 23.02.20	C/A No. TSX(STE)20-49	जारी ISSUED : STE (TL) HARDWAR	26.3.84

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक STEAM TURBINE ENGINEERING PRODUCT STANDARD	ST47025 HW0690097		
सामग्री सूची संख्या को अधिष्ठापित करना है SUPERSEDES INVENTORY NO.	<p>3. GLAND SEALING :- Valves working under vacuum are to be provided with gland sealing arrangement.</p> <p>7.0 HYDRAULIC TEST :- Hydraulic test shall be carried out on each valve. After the hydraulic test the internals shall be wiped, cleaned and dried. The body & seat shall be tested hydraulically in accordance with ANSI B16.34. For steam & 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 & duration of test along with following informations shall be furnished to purchaser.</p> <ol style="list-style-type: none"> 1. Valve identification No. 2. Type of valve & description 3. Valve size 4. Name of manufacturer 5. Project name 6. Date of testing <p>8.0 CLEANING & SURFACE PROTECTION :- The surfaces shall be rubbed with a solvent (e.g white spirit) to clean & 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"> 1. Outer surface to be protected by painting with two coats of Red oxide Zinc chromate primer. 2. Inside surface to be protected against rusting and corrosion. <p>9.0 IDENTIFICATION PLATE :- 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"> 1. Identification No. as specified in enclosed valve specification. 2. Valve type & Description 3. Valve size 4. Pressure rating 5. Manufacturer 6. Year of manufacturing 7. Project name 				
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स्वत्वाधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इस्का प्रयुक्त एवं आरक्षक रूप 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 संख्या INVENTORY NO. P-5522	REV. NO. 03		निर्माणकर्ता WORKED BY S.K.GUPTA		9/7/04
			जांचकर्ता CHECKED BY V.K.GUPTA		9/7/04

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक STEAM TURBINE ENGINEERING PRODUCT STANDARD	ST47025 HW0690097 पृष्ठ 4 का 3 Page 3 of 4								
सामग्री सूची संख्या को अधिष्ठापित करना है SUPERSEDES INVENTORY NO	<p>10.0 STANDARD :- Latest issue and amendments of all applicable international standard shall apply.</p> <p>11.0 PACKING :- Valve ends, machined and unmachined surface, etc. shall be protected against rusting & 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>12.0 GUARANTEE :- 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>13.0 SPARES :- The offer of valves shall include the requirement of spares to be made available at the time of erection & 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>14.0 SPECIAL TOOLS & TACKLES :- Any special tools & tackles, required for erection, commissioning and maintenance of valves shall be included in main offer per set of valves.</p> <p>15.0 QUALITY ASSURANCE, INSPECTION AND TESTING :-</p> <p>15.1 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>15.2 The bidder shall submit along with his offer quality plan in the prescribed BHEL's format.</p> <p>15.3 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>15.4 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>15.5 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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स्वत्वाधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत (बी) इंजीनियरिंग्स की सम्पत्ति है इसका प्रयोग एवं आरक्षक रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में अधिकारक हो न किया जाए ।											
हस्ताक्षर एवं दिनांक SIGN & DATE 26.7.04											
सामग्री सूची संख्या INVENTORY NO P-5522	REV. NO. 03		<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								

दिनांक एवं हस्ताक्षर & DATE SIGN		उत्पाद मानक STEAM TURBINE ENGINEERING PRODUCT STANDARD	ST47025 HW0690097 पृष्ठ 4 का 4 Page 4 of 4
सामग्री सूची संख्या को अधिष्ठापित करें SUPERSEDES INVENTORY NO	<p>16.0 ACTUATORS :- 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>17.0 DOCUMENTS</p> <p>17.1 Documents required along with the offer / at the time of registration :- 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"> 1. Cross sectional & 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 & dismantling of valve & actuator for maintenance for approval by the purchaser. 2. Quality plan for approval by purchaser. 3. List of commissioning spares, maintenance spares for 3 to 5 years of operation for reference. 4. Any special requirements of lubricant for reference. <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>17.2 Documents to be submitted after placement of the order :-</p> <ol style="list-style-type: none"> 1. 10 copies of finalised contract drawing within 8 weeks. 2. 10 copies operation/ maintenance/ erection instructions for each station within 12 weeks. 3. Instruction of conservation and deconservation within 12 weeks. <p>18.0 Six copies of all actual test certificates and quality documents shall be furnished to purchaser/owner.</p> <p>19.0 If there are any deviation from this specification in offer, the same shall be clearly spelled out clausewise by supplier.</p> <p>20.0 Cross referred standards :- ANSI B16.34</p>		
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स्वत्वाधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है. इसका प्रयोग एवं अवलोकन केवल उसी उद्देश्य के लिए ही किया जाना चाहिए, जो कि कंपनी के हित में हानिकारक हो न कि नुकसान पहुंचावे।			
दिनांक एवं हस्ताक्षर SIGN & DATE 26.7.04			
सामग्री सूची संख्या INVENTORY NO. P-5522	REV. NO. 03	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 ₂ 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



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 47034

PAGE 1 OF 3

SIGN & DATE

SUPERSEDES INVENTORY No.

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 Parameters	End connection
1	MAV82AA001	125	Sorvo-prime 46 of IOC	Pressure 2 kg/cm ² 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.

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SIGN & DATE	AGREED.	NAME	SIGN. & DATE
15/5/84	TSX	B.M. BANSAL	24.3.84
	QAX	H.C. UPADHYA	9.3.84
	DEPTT	NAME	SIGN. & DATE

INVENTORY NO. P-5515	REAFFIRMED		Distribution	Qty.	Approved:	ST
	Revision: 03				<i>[Signature]</i>	8.20
	Name	Sign	Date	Worked By	ENGG. DEV. MANAGER	
	SUNIL KUMAR SHARMA	<i>[Signature]</i>	02/03/2022	Checked By	Prepared	Issued
ANIL KUMAR	<i>[Signature]</i>	02/03/2022	Checked By	STE	STE (TL)	26.3.84
C/A No. - STE-20-22						



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 47034

PAGE 2 OF 3

SIGN & DATE

SUPERSEDES INVENTORY No.

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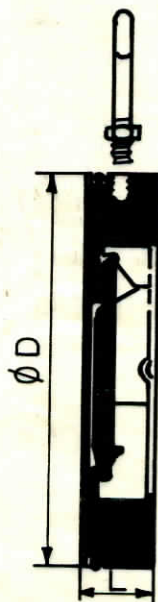
SIGN & DATE

INVENTORY No.

15/5/04

P-5515

- 3.0 RATING : Nominal pressure rating = 16 kg/cm²
- 4.0 MATERIAL *Flap of Aluminium.* b
Body of Carbon steel, *Material of other* 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 m³/sec flow of air shall be 60 mmwc and across the valve at sl.Nos. 3 & 4 with 0.02 m³/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.	D	D	K.G.
80	24	134	1.80
100	27	154	2.50

Revision: 03

b



PRODUCT STANDARD

ST 47034

STEAM TURBINE ENGINEERING

PAGE 3 OF 3

SIGN & DATE

SUPERSEDES
INVENTORY No.

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SIGN & DATE

INVENTORY No.

- 8.0 In continuation to clause 15.0 of Specification ST 47025, the min. test requirement envisaged by BHEL are as follows:-
- 8.1 Testing of Materials: The material of components of valve such as body & disc shall be tested as per relevant specification for its chemical composition and mechanical properties. For remaining components compliance certificate shall be furnished.
- 8.2 DPT on seat.
- 8.3 Functional test. *smooth movement of the flap.*

b

REVISION: 03

26/3/85

P-5515

डॉक्यूमेंट सरवर पर मौजिद कर दी गई है।
DOCUMENT RELEASED FROM SERVER/CTA

डॉक्यूमेंट सरवर पर जमा कर दी गई है।
DOCUMENT DEPOSITED IN SERVER

हस्ताक्षर दिनांक
SIGN & DATE

हस्ताक्षर दिनांक
SIGN & DATE

संशोधन प्रपत्र
CHANGE ADVICE FORM



संशोधन सूचना संख्या
CHANGE ADVICE NO. (1)

जारीकर्ता विभाग
ISSUING DEPTT. (2)

उत्पाद का प्रकार
TYPE OF PRODUCT (3)

जीएमएस/जीआरएसपी/सीबीएम संख्या / GMS / GRSP / CBOM No. (4)

मुद्रण दिनांक
PRINT DELIVERY DATE (5)

स्वीकृतिकर्ता
APPROVED BY (6)

अधिकारक
DESIGNATION (DRAWING No. etc) (7)

संशोधित पृष्ठ संख्या
REVISED SHEET NOS. (8)

संशोधन संख्या
REV. NO. (9)

संशोधन का कारण कोड
CODE FOR REASON OF CHANGE (10)

संशोधन का विवरण
DETAILS OF REVISION (11)

प्रशस्त मद्र संख्या
CHARGEABLE HEAD NO. (13)

सोबाना/जीएमएस/जीआरएसपी संख्या
VARIANT NO. OF CBOM/GMS/GRSP (14)

अन्य सोबाना
OTHER CBOM /GMS NOS./ GRSP NOS./ CBOM NOS. WHERE APPLICABILITY (15)

ROUTE (7a)

संशोधन का कारण कोड
CODE FOR REASON OF CHANGE (10)

जैसा है
AS IT EXISTS (11)

जैसा होना चाहिए
AS IT SHOULD BE (12)

जैसा है
AS IT EXISTS (11)

जैसा होना चाहिए
AS IT SHOULD BE (12)

जैसा है
AS IT EXISTS (11)

जैसा होना चाहिए
AS IT SHOULD BE (12)

जैसा है
AS IT EXISTS (11)

जैसा होना चाहिए
AS IT SHOULD BE (12)

ST 471034

ALL (03)

09

Standardoeffinced w/dhared change.

AGREED सहमति (20)

नित्तरणकर्ता
RELEASED BY STANDARDS (21)

नाम
NAME

हस्ताक्षर
SIGN

दिनांक
DATE

निर्माकर्ता
WORKED BY (17)

नाम
NAME

हस्ताक्षर
SIGN

दिनांक
DATE

अंतिमजांचिका
ENG. (18)

शैथिली
TECHNOLOGY

कमालिनी
QUALITY

विभा एवं दल
विभाग
& T DEPTT.

वेल्डिंग
TECHNOLOGY

केंद्रीय संयंत्र
प्रयोग
CPL

अन्य विभाग
OTHER DEPTT. ()

प्राप्त कर्ता
RECEIVED BY STANDARDS (23)


प्राप्त कर्ता
RECEIVED BY (CTA) (24)

पृष्ठ संख्या
SHEET NO (25)

कुल पृष्ठ
TOTAL SHEETS (26)

QUALITY PLAN									Page 1 of 2			
BHEL	QP NO.	QA_BI_QP_117		REV.	01	DESCRIPTION			LEGENDS			
	SPEC. NO.	AS PER PO		REV.	AS PER PO	NRV WITH ALUMINIUM FLAP			P- PERFORMED BY		1- BHEL REP	
	DRG. NO.	APPROVED DRAWING AS PER PO		REV.	AS PER PO				W- WITNESSED BY		2- VENDOR	
							V- VERIFIED BY		3- SUBVENDOR			
SL. NO	COMPONENT OPERATION	CHARACTERISTICS	CLASSIFICATION	TYPE OF CHECK	QUANTUM	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS
									P	W	V	

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	-	-	
		DIMENSIONS	MAJOR	MEASUREMENT	100%	BHEL APPD. DRG.	BHEL APPD. DRG.	TC	2	-	-	
2. IN PROCESS INSPECTION												
2.1	MACHINING OF BODY, DISC, SEAT	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.			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		TC	2	1		
3.3	HYDRAULIC TEST	LEAKAGE	CRITICAL	HYDRAULIC	100%	ORDERING SPEC. / BHEL APPD. DRG	NO LEAKAGE	TC	2	1	-	

MANUFACTURER/ SUBCONTRACTOR	 Digitally signed by Priti Kumar Ranjan Date: 2025.11.28 10:15:46 +05'30'	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	FOR CUSTOMER USE	APPROVED BY

QUALITY PLAN									Page 2 of 2			
BHEL	QP NO.	QA_BI_QP_117		REV.	01	DESCRIPTION			LEGENDS			
	SPEC. NO.	AS PER PO		REV.	AS PER PO	NRV WITH ALUMINIUM FLAP			P- PERFORMED BY		1- BHEL REP	
	DRG. NO.	APPROVED DRAWING AS PER PO		REV.	AS PER PO				W- WITNESSED BY		2- VENDOR	
									V- VERIFIED BY		3- SUBVENDOR	
SL. NO	COMPONENT OPERATION	CHARACTERISTICS	CLASSIFICATION	TYPE OF CHECK	QUANTUM	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS
									P	W	V	
3.4	SEAT LEAK TEST	LEAKAGE	CRITICAL	HYDRAULIC	100%	ORDERING SPEC. / BHEL APPD. DRG	NO LEAKAGE	TC	2	1	-	
3.7	PRESERVATION & PAINTING	PRESERVATION & PAINTING	MAJOR	VISUAL & DFT	100%	BHEL SPEC		IR	2	-	1	AS APPLICABLE

1. Test certificates shall be submitted QP clause wise mentioning clause no. on each page.
2. Calibrated Instruments with valid calibration certificate shall be used to testing. Inspector will check the certificate before testing.

Digitally signed
by Priti Kumar
Ranjan
Date: 2025.11.28
10:16:00 +05'30'

		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	FOR CUSTOMER USE	
MANUFACTURER/ SUBCONTRACTOR				APPROVED BY