

**BUYERS SPECIFIC ADDITIONAL TERMS & CONDITIONS**  
**ITEM NAME: LEAK STEAM CONTROL VALVE WITH PNEUMATIC ACTUATOR**

**PROJECTS- DOLVI****1. SCOPE OF ENQUIRY:**

Sl. No.	Material Code & Item Description	Total Qty.	LOT Quantity & Delivery schedule
1.	ST9031324000 DRG: 21324057500 REV: 00 LEAK STEAM CONTROL VALVE WITH PNEUMATIC ACTUATOR	1 Set	DOLVI: 1 No. -28/09/2026
2.	ST9731324003 DRG: 41324057510 REV:00 SPARES FOR LEAK STEAM VALVE	1 Set	DOLVI: 1 No. -28/03/2027
3.	W99318102100 DRG: AS PER ADDENDUM NO-41810250001 REV:00 POSITIONER WITH POSITION TRANSMITTER FOR LEAK STEAM VALVE AS PER ADDENDUM NO.- 41810250001.	1 No	DOLVI: 1 No. -28/03/2027

**2. Project Details with consignee address:**

<b>Project Name</b>	1X250 MW STG for CPP-4 JSW Dolvi, JSW Steel Ltd, Dolvi
<b>Consignee Address</b>	BHEL Site Office, 1X250 MW STG for CPP-4 JSW Dolvi, JSW Steel Ltd, Dolvi Maharashtra-402107

**3.BUYERS SPECIFIC ADDITIONAL TERMS & CONDITIONS IN ADDITION TO GTC**

Sl. No.	Terms	Description	Supplier confirmation
1.	<b>Documents Checklist:</b>	<p>Please submit signed and stamped copy of your offer on each page along with following documents;</p> <ul style="list-style-type: none"> <li>Buyer Specific T&amp;C.</li> <li>Technical PQR &amp; its supportive document.</li> <li>Technical drawing &amp; purchase specification.</li> <li>Certificate/self-certification for minimum local content as per PPP-MII order.</li> <li>Replica of price bid schedule without prices with part-I offer.</li> </ul>	
2.	<b>Special Instruction of Technical requirement</b>	<p>A. VENDOR TO FURNISH THEIR PRICE AGAINST EACH ITEM MENTIONED IN BHEL DWG NO. 31324000001 FOR NEXT 5 YEARS ORDERING. HOWEVER KINLDY NOTE THAT THIS COST SHALL NOT BE USED FOR ESTABLISHING L-1 IN CURRENT TENDER.</p> <p>B. AT THE TIME OF OFFER ALL THE VENDORS TO ENSURE TO FURNISH DULY FILLED CHECK LIST FOR LEAK OFF STEAM VALVE ( AS PER ANNEXURE-B) TO CONFIRM BHEL SPECIFICATION REQUIREMENTS.</p> <p>C. AT THE TIME OF OFFER ALL THE VENDORS TO ENSURE TO FURNISH DULY FILLED ANNEXURE-C AND SUBMIT ALL THE DOCUMENTS ACCORDINGLY.</p> <p>D. VENDOR TO SUBMIT PACKING LIST OF ITEMS FOR BHEL REVIEW AFTER PLACEMENT OF P.O. AND BEFORE DISPATCH.</p> <p>E. MANDATORY SPARES SHALL BE PACKED IN A SEPERATE GREEN COLOR BOX WITH "MANDATORY SPARES FOR LEAK OFF STEAM VALVE" LABLLED ON IT.</p> <p>F. ADDITIONAL SPECIFICATION FOR SMART TYPE POSITIONER AS PER DOCUMENT NO.41810250001_REV05 SHALL BE COMPILED BY ALL THE VENDORS.</p> <p>G. IN CASE OF ANY CONFLICT BETWEEN STIPULATIONS IN VARIOUS PORTIONS OF THE SPECIFICATION, MOST STRINGENT STIPULATION WOULD BE APPLICABLE FOR IMPLEMENTATION BY THE VENDOR WITHOUT ANY EXTRA COST TO BHEL.</p>	

		H. SPECIAL TOOLS AND TACKLES/ EQUIPMENT FOR THE OPERATION, MAINTENANCE, INSPECTION AND REPAIR OF THE EQUIPMENT SHALL BE SUPPLIED BY THE VENDOR WHICH SHALL BE NEW AND UNUSED. SPECIAL TOOLS AND TACKLES/ EQUIPMENT SHALL BE DELIVERED BY THE VENDOR IN LOCKABLE STEEL BOXES AND SHALL BE MARKED FOR IDENTIFICATION PURPOSES ALONGWITH CORRESPONDING TOOL CHART.	
3.	Compliance of GTC on GeM	General Terms and Conditions on GeM 4.0 (Version 1.28) Dtd -22/12/2025 or it's latest revision of GeM portal shall be applicable against this enquiry. Kindly confirm to compliance the same for this tender.	
4.	Pre-Qualification Requirements	The Pre-Qualification Requirements have been compiled. All the bidders should ensure submission of complete details and documents as called for in these requirements. The Offers submitted by the bidders would be scrutinized with respect to Pre-Qualification Requirements first. Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements.	
5.	Compliance of Rule 144 (xi) of GFR 2017	Compliance of Restrictions under Rule 144 (xi) of GFR 2017 shall be as per GeM.	
6.	Bid validity/ Validity of offer	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 liable to reject. Please confirm.	
		The required validity is considering that offer is complete & clear w.r.t. PQR and all techno-commercial conditions. Vendors need to extend their offer validity for the time taken by them in responding BHEL's comments/clarification sought during techno-commercial scrutiny of the offer. In case regret by any bidder for such validity extension, their offer shall liable to be reject. Please confirm.	
7.	Loading and unloading	Vendor's scope will not cover Loading & Unloading at Final destination of delivery. Unloading at final destination (i.e. BHEL site) is in BHEL 'scope. Loading and unloading at other intermediate places due to any permitted transshipment will be the responsibility of the vendor. Kindly note	
8.	Prices/Basis of Quotation	The offered prices of the items shall remain firm and fixed till the execution of the contract, kindly confirm.	
		Kindly confirm that your quote prices are inclusive of P&F, Freight & GST for Total quantity on GeM portal.	
		Transit Insurance would be arranged by BHEL. Please quote your prices accordingly.	
		The prices are to be quoted on Ex-Works with freight Pre-paid up to project destination basis & inclusive of all taxes & duties, GST (i.e. Inclusive all). Bidders can dispatch goods through any Indian Bank Association approved transporters having their branch at HARIDWAR / destination. If material is dispatched through other than Indian Bank Association approved transporter, material to be delivered on door delivery basis. In case of dispatch of material through any other unapproved transporter, payment shall be made only after receipt of material and any additional charges payable to the transporter shall be to the bidder's account. Any demurrage / godown rent payable to the transporter /or to godown's owner due to any delay attributed by the supplier shall be recovered from supplier's account.	
9.	Special Instructions:	a) ORIGINAL (INVOICE, GR/LR, PKG. LIST) COPY OF E-WAY BILL ARE REQUIRED FOR BILLING b) ENSURE MDCC / INSPECTION WAVIER LETTER BY JSW BEFORE DISPATCH c) MATERIAL TO BE DESPATCHED ONLY AFTER MDCC. d) MATERIAL IS TO BE DESPATCHED ON DOOR DELIVERY BASIS TO JSW SITE e) COMMISSIONING SPARES & MANDATORY SPARES NEEDS TO BE PACKED IN SEPARATE BOXES MANDATORY SPARES TO BE WRITTEN IN BOLD LETTERS ON ALL SIDES OF PACKING BOXES. f) ITEM TAG SLIP WITH EACH ITEM FOR ITS IDENTIFCATION UPON OPENING OF BOX. g) BHEL BBU NOS. TO BE MENTIONED IN PACKING LIST BY VENDOR. h) Please inform 8 Digit HSN code for Oil Purification along with spares. i) 08 DIGIT GST HSN CODE to be provided & mentioned in your invoice & packing list. j) Vendor to ensure submission billing documents in the same month of material despatch. If vendor fail to provide the despatch documents in the same month GST Penalty shall be applicable and bear by vendor as per GST rule.	

10.	Evaluation criteria	Evaluation would be done on the basis of total landed cost for the complete scope/requirement covered in the enquiry Considering total material value, supervision charges, type test charges (if applicable), Packing charges, Forwarding Charges, taxes & duties, Freight & Insurance).									
11.	Evaluation Currency	The evaluation currency for this tender shall be INR.									
12.	Payment terms:	<p><b>For Material portion:</b> The payment shall be done after receipt of Material at BHEL respective project site, within no. of days as defined in the below table from the date of receipt of Material at site i.e. MRC date).</p> <table><tr><td>Type of Bidder</td><td>Payment Terms (Number of Days)</td></tr><tr><td>Micro &amp; 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></table> <p>The Payment terms are subject to receipt of non-discrepant document from supplier.</p>	Type of Bidder	Payment Terms (Number of Days)	Micro & Small Enterprises (MSEs)	45 days	Medium Enterprises	60 days	Non MSME	90 days	
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Micro & Small Enterprises (MSEs)	45 days										
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13.	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.									
14.	Contract execution	Bidder's are advised to read GeM related query & clarification carefully on GeM portal. Order shall be executed through GeM.									
15.	Reverse Auction (E-bidding)	BHEL shall be resorting to Reverse Auction (RA) on GEM portal as per GEM functionalities for this tender. RA shall be conducted among the techno-commercially qualified bidders.									
16.	Quantity Variation	<p>BHEL reserves the right to cancel tender or reject any or all the quotations without assigning any reasons thereof.</p> <p><b>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.</b></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>Vendor has to take manufacturing clearance from BHEL before starting manufacturing of material. In case ordered quantity is reduced at the time of manufacturing clearance, then payment shall be made accordingly as per decreased quantity. Kindly confirm.</p>									
17.	Delivery Period	<p>Please note that BHEL's Delivery requirements are mentioned in point no 1 of above.</p> <p>Early delivery w.r.t. above lot delivery will be accepted only after written confirmation from BHEL. BHEL reserve right to reject early delivery request of bidders / suppliers.</p> <p>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 time etc.</p>									
18.	Technical Document/ Drawing approval conditions	<p>Drawings/Data sheets/documents/QAP etc. as called for in the specifications shall be submitted by Vendor for BHEL/ Customer approval within 30 days of purchase order. BHEL shall approve these drawings/data sheets/ documents / QAP etc. within 30 days of receipt.</p> <p>Any comments on the documents shall be given by BHEL within 7 days of submission and vendor shall submit revised document / reply to comments, within 7 days of BHEL comments. However, total time for Document submission and approval shall not exceed 30 days for respective party.</p> <p>Delivery is from the date of PO, accordingly, delay in submission / revision of the documents by the vendor will automatically account for to vendor. In case of delay on account of BHEL in comments / approval of the documents, the delivery shall be re-scheduled by the no of days taken by BHEL in excess to 30 days. For delay analysis cumulative no of days (including time taken in comments), shall be considered for delivery extension.</p>									
19.	Liquidated Damages (LD) for late delivery	<p>Liquidated Damages shall be lot wise as per clause no. 15 (iii) of General terms and conditions on GeM 4.0 (Version 1.26) as under: kindly confirm.</p> <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</p>									

		conditions aforesaid, @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever".	
		The date of LR would be treated as the date of delivery for penalty purposes.	
20.	MDCC clause	<p>Please note that, material shall be dispatched only after issue of Material dispatch clearance certificate (MDCC) from end customer. For issue of MDCC, vendors are required to submit all test certificates (TC) and inspection report of third party (IR) to BHEL. After review &amp; acceptance of the quality document, BHEL will forward the same to end customer for issuance of MDCC.</p> <p>MDCC shall be issued within 7 days of receipt of complete quality documents / TCs,. In case of delay in issuance of MDCC, only delivery shall be extended by no of days taken by BHEL in excess to 7 days and all other terms and conditions of PO shall remains same &amp; binding.</p> <p>In case any material is dispatched without MDCC and any loss is incurred by Supplier/Vendor for any reason whatsoever, BHEL shall not be responsible in any manner to compensate the supplier in this regard.</p> <p>Kindly confirm.</p>	
21.	BREACH OF CONTRACT, REMEDIES AND TERMINATION:	<p><b>The following shall amount to breach of contract:</b></p> <p>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.</p> <p>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.</p> <p>III. The Supplier/Vendor delivers equipment/ material not of the contracted quality.</p> <p>IV. The Supplier/Vendor fails to replace the defective equipment/ material/ component as per guarantee clause.</p> <p>V. Withdrawal from or abandonment of the work by the Supplier/Vendor before completion as per contract.</p> <p>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.</p> <p>VII. Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor.</p> <p>VIII. Any other reason(s) attributable to Vendor towards failure of performance of contract. In case 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p><b>Remedies in case of Breach of Contract.</b></p> <p>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.</p> <p>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</p>	

		<p>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.</p> <p>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:</p> <p>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.</p> <p>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:</p> <p>a) from dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract.</p> <p>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.</p> <p>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.</p> <p>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 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>	
22.	<b>Suspension of Business Dealings with Suppliers / Contractors:</b>	<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 <a href="http://www.bhel.com">www.bhel.com</a>.</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 <a href="http://www.bhel.com">www.bhel.com</a> and / or under applicable legal provisions. Guidelines for suspension of business dealings is available in the webpage: <a href="http://www.bhel.com/vender_registration/vender.php">http://www.bhel.com/vender_registration/vender.php</a>.</p>	
23.	<b>Settlement of Dispute, CONCILIATION &amp; ARBITRATION:</b>	<p><b>Settlement of Dispute</b></p> <p>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</p>	

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.

**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](http://www.bhel.com)).

**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.

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.

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 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.

		<p>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.</p> <p>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.</p>													
24.	<b>Action against Bidders / vendor / supplier / contractor in case of default:</b>	<p>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.</p> <p>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 “<a href="https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors">https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors</a>”</p>													
25.	<b>MICRO AND SMALL ENTERPRISES (MSE):</b>	<p>Any Bidder falling under MSE category shall furnish the following details &amp; submit documentary evidence/ Govt. Certificate etc. in support of the same along with their techno-commercial offer.</p> <table border="1"> <tr> <th>Type under MSE</th><th>SC/ST owned</th><th>Women owned</th><th>Others (excluding SC/ ST &amp; Women Owned)</th></tr> <tr> <td>Micro</td><td></td><td></td><td></td></tr> <tr> <td>Small</td><td></td><td></td><td></td></tr> </table> <p><b>Note:</b> If the bidder does not furnish the above, offer shall be processed construing that the bidder is not falling under MSE category.</p> <p>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 &amp; 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															
26.	<b>JURISDICTION:</b>	<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>													
27.	<b>Force Majeure</b>	<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</p>													

		<p>responsibilities of the non-performing party: a) any strike, work-to-rule action, goslow 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.</p> <p>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 occurrence of an event of Force Majeure.</p> <p>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</p>	
28.	<b>Cartel Formation</b>	<p>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.</p>	
29.	<b>Order of Precedence:</b>	<p>In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:</p> <ol style="list-style-type: none"> <li>Amendments/Clarifications/Corrigenda/Errata etc. issued in respect of the tender documents by BHEL.</li> <li>Buyer Added Bid Specific ATC</li> <li>GeM Bid Technical Conditions of Contract (TCC)</li> <li>GeM GTC</li> </ol>	
30.	<b>Conflict of interest:</b>	<p>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:</p> <ol style="list-style-type: none"> <li>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;</li> <li>The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;</li> <li>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.</li> <li>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.</li> </ol> <p>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 nonsubmission of bids or any other actions to restrict</p>	

		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.	
31.	Guarantee	Kindly confirm that Guarantee shall be provided for a period of “ <b>24 months from the date of dispatch or 18 months from the date of commissioning, whichever is earlier</b> ”. In case of any failure or trouble reported from site, the supplier should depute their representative immediately to attend the problem and replace the defective component/part if required, without any additional cost to BHEL. Supplier shall be responsible for free replacement of defective equipment / material at our site Please note that offers with guarantee period lesser than above mentioned guarantee period may result in rejection of the offer.	
32.	Order Acceptance:	Ink signed order acceptance shall be furnished within 15 days of order placement. In case, order acceptance do not received within 15 days of order placement, PO deemed to be accepted by you.	
33.	Beneficiary of PO	Kindly confirm on whom the PO will be placed in the event of ordering.	
34.	Dispatch documents	Following dispatch documents to be provided immediately after directly dispatch to BHEL Project site for billing purpose: <ul style="list-style-type: none"> <li>• Guarantee/Warranty Certificates</li> <li>• E- Invoice and commercial invoice</li> <li>• GeM invoice</li> <li>• Original consignee copies of GR/LR/RR (Material shall be dispatched on door delivery basis without consignee copy)</li> <li>• Packing list</li> <li>• Original GST compliance certificate</li> <li>• E-way bill</li> <li>• MRC/POD/Receipted LR/RR/GR copy (as per proof of delivery of material at BHEL Project site)</li> </ul>	
35.	IP Address	The bids received from same IP address shall be outrightly rejected and shall not be considered for further evaluation.	
36.	Additional Conditions for Assessment	BHEL also reserves the right to have on-site assessment of the facilities at supplier's works during the bid evaluation.	
37.	O&M Manuals	<b>Kindly confirm that in the event of ordering,</b> 22 Sets hard copies (Paper based) and 6 Sets (in CD ROM) of O & M manual shall be furnished containing all drawings and datasheet, catalogues of all instruments and instructions for storage, erection & commissioning, operation and maintenance after approval. Please submit same to BHEL Haridwar within 12 weeks of placement of P.O. <b>Kindly confirm that in the event of ordering,</b> 3 Sets hard copies (Paper based) and 1 Sets (in CD ROM) of O & M manual would be kept inside the dispatch box of Leak Steam Valve & the same shall also be mentioned in your Shipping/Packing List.	
38.	Bidder Contact details	Please provide Contact details of your representative for techno-commercial clarifications: Mobile no. & Email id (minimum 2 person)	
39.	Quality Requirement	VENDOR TO CONFIRM AND ENDORSE BHEL SQP QA_BI_QP_135_NN REV00. VENDOR TO CONFIRM THAT INSPECTION SHALL BE DONE BY BHEL NOMINATED INSPECTION AGENCY M/S QUEST AS PER BHEL SQP QA_BI_QP_135_NN REV00. FOR SPARES: VENDOR TO CONFIRM THAT WITNESSING, TESTING AND CERTIFICATION ALONG WITH INTERCHANGEABILITY CERTIFICATE SHALL BE DONE AND PROVIDED AS PER BHEL SQP QA_BI_QP_135_NN, REV00 IF ITEM APPEAR IN QP. IF ITEM DOES NOT APPEAR IN BHEL SQP QA_BI_QP_135_NN, REV00, CERTIFICATE OF COMPLIANCE ALONG WITH INTERCHANGEABILITY CERTIFICATE SHALL BE PROVIDED BY VENDOR. The Charges for Pre-Inspection would be borne by BHEL. However at least 15 days' notice is to be provided for arranging Pre-Inspection.	

**SPECIAL NOTE FOR BIDDERS:**

- 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.

- b. 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.
- c. 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.
- d. 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.
- e. 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 web site [www.bhel.com](http://www.bhel.com).
- f. 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.
- g. If the delivery of supply as detailed above gets delayed beyond the delivery period, the Supplier/Vendor shall request for a delivery extension and BHEL at its discretion may extend the Contract. However, if any 'Delivery extension' is granted to the Supplier/Vendor for completion of supply, due to backlog attributable to the Supplier/Vendor, then it shall be without prejudice to the rights of BHEL to impose LD for the delays attributable to the Supplier/Vendor.
- h. In case BHEL increase the quantity during currency of the contract in line with quantity variation clause of GeM bid, delivery extension on pro-rata basis shall be given for supply of these additional quantity.

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 submitted/uploaded along with offer on GeM portal against this bid.

1. Please submit replica of Price schedule (without prices) showing "quoted" in place of price along with techno-commercial bid (Part-I).
2. Please submit signed & Stamped copy (each page) of duly filled of confirmation column of "Buyers Specific Additional Terms & Conditions (ATC)" and its clause wise supporting documents where required.
3. Please submit signed & stamped copy (each page) for qualifying PQR with proper filled information and related supporting documents as mentioned in PQR.
4. Please submit certificate of Minimum local content as specified in the Make In India Certificate of the tender

### PQR FOR LEAK OFF STEAM VALVE

Sl. No.	Parameters	Vender's response
1	<p>The vendor should have experience of design, manufacturing &amp; testing of control valve as per following details:</p> <ol style="list-style-type: none"> <li>1.1 Design pressure: 16 bar or above</li> <li>1.2 Design temperature: 500 °C or above</li> <li>1.3 Valve size: 12" or above</li> <li>1.4 Working medium: steam</li> <li>1.5 ANSI class of the supplied valves shall be ANSI 300 or higher</li> <li>1.6 Operating time for full control stroke shall be less than 3 seconds</li> <li>1.7 Valve leakage class: Class IV or higher as per ANSI FCI 70-2</li> <li>1.8 Actuators of the valve shall be pneumatically operated</li> <li>1.9 The vendor shall have experience of SMART type positioner</li> </ol>	<u>Yes/ No</u>
2	<p>The vendor should have experience of supplying the valve satisfying all the conditions referred at point no. 1 above for at least one steam turbine power plant of rating 210MW or above, which has been commissioned at least one year as on date of issuance of enquiry. The vendor to submit experience details as per <b>Annexure-A</b> along with relevant documents of supplied valve &amp; its actuator along with accessories like datasheets &amp; drawings etc. to support their claim.</p> <p style="text-align: center;"><b>OR</b></p> <p>The vendor should have experience of successfully manufacturing and testing of control valve meeting minimum parameters as per clause 1 above for BHEL, Haridwar during last 10 years as on date of issuance of enquiry. Accordingly, in support of above the supplier to submit the following documents-</p> <ul style="list-style-type: none"> <li>- PO copy</li> <li>- Drawing and datasheet of the control valve</li> <li>- Test certificates/reports</li> </ul>	<u>Yes/ No</u>  <u>Yes/ No</u>

**Note: -**

1. Against vendor's replies, BHEL reserves the right to ask for more information/documents/clarifications. Vendor's offer shall not be considered if vendor fails to furnish the document/information/clarifications as mentioned above or vendor doesn't meet the above acceptance criteria.
2. The vendor should furnish all the documents in English language only. If the documents are not in English, then they must be accompanied by duly certified English translations of the same.
3. BHEL team may visit Supplier works to assess Supplier's manufacturing and testing facilities, if required.

	STE-TG	CIE
Prepared by	<u>LEELPAT SINGH</u>	}
Checked by	<u>SPRABH MATHI</u> <u>CHAWNIT MIRANI</u>	
Review by	<u>VISHAL SRIVASTAVA</u>	}
Approved by	<u>VIVERC SHARMA</u>	

## ANNEXURE-A

Experience details for leak off steam valve:

Sl. No.	Description	Applicable data	
		As per BHEL requirement	As per vendor's experience
1.	Name of power station and its location		
2.	Client name and its address, email & contact No.		
3.	Name and designation of the responsible person in client's organization /Power plant		
4.	Capacity in MW of unit	210 MW or above	
5.	P.O. no. and date		
6.	Date of commissioning of above project		
7.	Manufactured by		
8.	Evidence of supplying the valve for above mentioned project viz. invoice copy & commissioning report /end user certificate (shall not be more than 10 years old as on date of issuance of enquiry)		
9.	Design parameters		
	Design pressure	16 bar(a) or above	
	Design temperature	500 °C or above	
10.	Size of the valve	≥ 12"	
11.	Operating time of actuators (open/close)	< 3 sec	
12.	Leakage class	Class IV or above as per ANSI FCI 70-2	
13.	Valve class	ASME 300 or higher	
14.	Type of actuator	Pneumatically actuated	
15.	Working medium	Steam	
16.	Valve type	Control valve	
17.	Type of body	Globe	
18.	Positioner Type	SMART type	


MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN					TO BE FILLED BY BHEL		TO BE FILLED BY BHEL			
BHEL	VENDOR'S NAME	ITEM	LEAK OFF STEAM VALVE WITH PNEUMATIC ACTUATOR	QP NO.	QA_BI_QP_135_NN, REV00								
				DATED	30.12.2025								
		DRG. NO.	AS PER PO										
		SPEC.	AS PER PO										
		REV	AS PER PO		Page 1 of 4								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY		REMARKS
										M	B	N	
1	2	3		4	5	6	7	8	9	D	10		11

1.	Body / Bonnet	Mechanical Properties	CR	Physical Test	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	V		
		Chemical Analysis	CR	Chemical Testing	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	V		
		Heat Treatment	CR	Time & Temp.	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	V		
		Internal Soundness	CR	Radiography & UT	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	IR	√	P	V		
		Hydraulic Test	CR	Hydraulic Test	100%	BHEL APPROVED DATA SHEET/DRAWING	No Leakage	IR	√	P	V		
2.	Trim (Plug, Seat, Stem)	Mechanical Properties	MA	Physical Test	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	V		
		Chemical Analysis	MA	Chemical Testing	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	V		

MANUFACTURER/SUBCONTRACTOR	<div> <div> Digitally signed by Priti Kumar Ranjan  Date: 2025.12.30 15:20:55 +05'30' </div> <div> 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 </div> </div>	FOR CUSTOMER USE	APPROVED BY

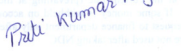
MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN					TO BE FILLED BY BHEL		TO BE FILLED BY BHEL				
BHEL	VENDOR'S NAME	ITEM	LEAK OFF STEAM VALVE WITH PNEUMATIC ACTUATOR	QP NO.	QA_BI_QP_135_NN, REV00									
				DATED	30.12.2025									
		DRG. NO.	AS PER PO											
		SPEC.	AS PER PO											
		REV	AS PER PO		Page 2 of 4									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
										M	B	N		
1	2	3		4	5	6	7	8	9	D	10			11

3.	Studs and Nuts	Mechanical Properties	CR	Physical Test	One Per Lot	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	COC	√	P	V		
		Chemical Analysis	CR	Chemical Testing	One Per Lot	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	COC	√	P	V		
4.	Packing and Other Internal Parts	Material & Functional Tests	MA	As required by relevant Standard	Sample	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	COC	√	P	V		
	Actuator	Model	MA	Verify	Sample	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	COC	√	P	V		
		Functional Test	MA	Leakage	Sample	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	COC	√	P	V		
	Positioner	Model	MA	Verify	Sample	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	COC	√	P	V		

MANUFACTURER/SUBCONTRACTOR	 Digitally signed by Priti Kumar Ranjan Date: 2025.12.30 15:21:10 +05'30'	LEGEND:	FOR CUSTOMER USE	APPROVED BY
		! 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		

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN					TO BE FILLED BY BHEL		TO BE FILLED BY BHEL				
BHEL	VENDOR'S NAME	ITEM	LEAK OFF STEAM VALVE WITH PNEUMATIC ACTUATOR	QP NO.	QA_BI_QP_135_NN, REV00									
				DATED	30.12.2025									
		DRG. NO.	AS PER PO											
		SPEC.	AS PER PO											
		REV	AS PER PO		Page 3 of 4									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
										M	B	N		
1	2	3		4	5	6	7	8	9	D	10			11

		Functional Test	MA	Testing With Valve	Sample	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	COC	√	P	V		
5.	Complete Valve	Hydraulic Test	CR	Hydraulic Test	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	W		
		Seat Leakage Test	CR	Leak test	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	W		
		Packing Tightness / Gasket Leakage	CR	Leak test	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	W		
		Operating Test (Opening & closing Time)	CR	Performance	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	W		

MANUFACTURER/SUBCONTRACTOR	<div> <div>  </div> <div> Digitally signed by Priti Kumar Ranjan  Date: 2025.12.30 15:21:24 +05'30' </div> </div>	LEGEND:	FOR CUSTOMER USE	APPROVED BY
		! 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		

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN					TO BE FILLED BY BHEL		TO BE FILLED BY BHEL				
BHEL	VENDOR'S NAME	ITEM	LEAK OFF STEAM VALVE WITH PNEUMATIC ACTUATOR	QP NO.	QA_BI_QP_135_NN, REV00									
				DATED	30.12.2025									
		DRG. NO.	AS PER PO											
		SPEC.	AS PER PO											
		REV	AS PER PO		Page 4 of 4									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
										M	B	N		
1	2	3		4	5	6	7	8	9	D	10			11

		Flow Capacity Test	CR	Valve Full Capacity	One Per Type	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	V			BHEL Approved CV Test Report
Final Inspection														
6.	Painting	Color & Thickness	MA	Coating Thickness	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	V			
7.	Overall Dimensions	Overall Dimensions Inspection	MA	End to End dimensions	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	TC	√	P	V			
8.	Complete Valve & Packing	Verification	MA	Verification	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	IR	√	P	-			

- Note:
 

1. Test certificates shall be submitted clause wise mentioning respective clause on each page.
 2. Only Calibrated instruments shall be used for all checking and witnessing.

MANUFACTURER/SUBCONTRACTOR	<div> <div> <i>Priti Kumar Ranjan</i> </div> <div>           Digitally signed by Priti Kumar Ranjan            Date: 2025.12.30 15:21:42 +05'30'         </div> </div>	LEGEND:	FOR CUSTOMER USE	APPROVED BY
		! 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		

**ANNEXURE- B****Check –List for Leak off steam valve (Material code: ST9031324000), Drawing. No. 21324057500, Rev. 00:**

SL No.	BHEL SPECIFICATION REQUIREMENT	Vendor's confirmation/ Remark
1	Valve body material: ASTM A217 GR. WC6	
2	Design pressure: 16 bar (a)                      Design Temperature: 540 deg C	
3	Valve Characteristics: Equal %	
4	Counter Flange/Expander/Reducer material: ASTM A182 F11	
5	Overall dimensions: (a) Vretical span including dismantling space < 3500 mm	
6	Counter flange End connection details: i. Inlet : 323.9X8.38, Butt welded as per fig.4 of ASME B16.25 ii. Outlet : 323.9X8.38, Butt welded as per fig.4 of ASME B16.25	
7	Valve shall be capable of handling at least 120% of required maximum flow at full open condition	
8	Controllable range of Cv	
9	Hand wheel for manual operation shall be provided.	
10	Manual vent valve shall be provided for manual release of entrapped air in actuator.	
11	Following commissioning spares shall be provided: i. Packing & gaskets 1 set. ii. Lock Washer for flange: 1 set for each flange connection	
12	Noise level: 85 db at a distance of 1 meter	
13	Valve shall be IBR approved.	
14	End connection for air supply: pipe connector (CS, weldable) with 1" butt welded connection, mat. Stainless steel to be provided by the vendor	
15	Failure mode: (a) On air supply failure: stay put (b) On control signal failure: Closed	
16	Cv test report submission after placement of P.O.	
17	Operating time < 3 sec	
18	Weight of complete assembly of valve along with actuator < 2000 Kg	
19	Valve leakage class-IV as per ANSI FCI 70-2	
20	Function of Actuator: Air to open spring to close	
21	Type of drive of actuator: spring diaphragm	
22	Recommended quality and quantity of air	
23	Required supply air pressure,	
24	Documents submission for BHEL approval within 4 weeks after placement of P.O. as per Annexure-C	
25	O & M Manual: Submission of ONE (1) REPRODUCIBLE ORIGINAL + 25 HARD COPIES+7 CDs of O&M MANUAL SHALL BE SUPPLIED BY THE VENDOR. OUT OF THESE, 3 HARD COPIES+ 1 CD SHALL BE SENT TO SITE ALONGWITH THE EQUIPMENT & REMAINING ONE (1) REPRODUCIBLE ORIGINAL +22 COPIES+6 CDs SHALL BE SENT TO BHEL, HARIDWAR WITHIN 12 WEEKS OF PLACEMENT OF P.O.	

**ANNEXURE-C****Leak off steam control valve - Check List for Documents/Information to be furnished along with the offer**

SL. No.	Document/Information details	Enclosed with the offer	
		Yes	No
1	Data sheet of valve and actuator		
2	Sizing calculation of valve and actuator		
3	General arrangement drawing of valve along with actuator indicating: i. overall dimensions, ii. required maintenance space, iii. details of weld ends, iv. overall assembly weight v. direction of flow		
4	Hook up diagram along with its functional write up		
6	Detailed catalogue mentioning type of position transmitter position controller, volume booster, air lock relay, air filter and regulator		
7	Priced list of recommended spare parts as per BHEL Drg. 31324000001 for next 5 years ordering.		

**Leak off steam control valve - Check List for Documents (in addition to above mentioned documents) to be furnished after placement of PO**

SL. No.	Document/Information details	Vendor's confirmation
1	Cross sectional drawing of valve and actuator with items to be supplied as spares clearly correlated with the item no. of corss sectional drawings	
2	BOM of valve and actuator	
3	Valve charateristic curve	
4	Recommended quality and quanti and supply pressure of actuator air	

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FIRST ANGLE PROJECTION

( ALL DIMENSIONS ARE IN mm )

FORM DG 38(B)

10000-04221-3  
DRAWING No.

TABLE-1 SPARES FOR LEAK OFF STEAM VALVE

S.NO.	ITEM DESCRIPTION	QTY.
01	COMPLETE SET OF INTERNALS (EXCEPT OUTER BODY& BONNET ALONG WITH ACTUATOR)	1 SET
02	GUIDE BUSHINGS	1 SET
03	PLUG AND STEM ASSEMBLY	1 SET
04	CAGE	1 NO
05	SET OF O RINGS	1 SET
06	SEALING RINGS	1 SET
07	SET OF GASKETS	1 SET
09	BONNET SEAL	1 SET
10	SET OF PACKING	1 SET
11	SEAT RING	1 NO
12	GLAND PACKING	1 SET
13	RETAINER RING	1 NO

TABLE-2 SPARES FOR LEAK OFF STEAM VALVE ACTUATOR

S.NO.	ITEM DESCRIPTION	QTY.
01	COMPLETE ACTUATOR ASSEMBLY ALONG WITH ACCESSORIES	1 SET
02	POSITIONER ALONG WITH POSITION TRANSMITTER	1 NO
03	ACTUATOR DIAPHRAGM	1 NO
04	ACTUATOR STEM	1 NO
05	SEALS/GASKETS	1 SET
06	O RINGS	1 SET
07	AIR LOCK RELAY	1 NO
08	VOLUME BOOSTER	1 NO
09	AIR FILTER & RELIEF VALVE	1 NO
10	AIR SET	1 NO
11	PILOT RELAY	1 NO

TECHNICAL REQUIREMENTS :-

1. INTERCHANGEABILITY OF THE MENTIONED ITEMS ARE FOR REPLACEMENT WITH THEIR PARTS FOR WHICH SUPPLY IS TO BE MADE AGAINST MAIN OFFER
2. ALL THE SPARES MUST BE PACKED IN SEALED TRANSPARENT PLASTIC BAGS AND CLEARLY MARKED OR LABELLED ON THE OUTSIDE OF THE PACKING WITH ITS DESCRIPTION & ASSEMBLY PART NUMBERS.
3. QUALITY CHECKS & TESTING NORMS/REQUIREMENTS AS PER AGREED QUALITY PLAN (QP) SHALL ALSO BE APPLICABLE FOR ALL THE SPARES AS LISTED.
4. ALL THE RELEVANT ASSEMBLY DRGS. SHALL BE FURNISHED BY THE VENDOR MARKING ALL THE OFFERED ITEMS.

21323913000 Ref.Drawing No.	Sign & Date	GRADE OF UNTOL. DIM										-GMS No./ C B O M		STATUS OF DRG		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT										
		M/CG.- AA0230208 m										AGREED DEPT CIE		NAME SASWATI												SIGN -SD-
		WELDING-CLASS 'B' OF AA0621104																								
		GAS CUTTING-TABLE 3 OF AA0621101																								
Inventory No.	REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		H.SINGH -SD- ADRASH -SD-	DEPT STE CODE 4011			SCALE NTS		WEIGHT (KG) —		REF. TO ASSY. DRG.		ITEM No. —		NO. OF ITEMS 75 77	
			CHECKED				CHECKED		01	27.02.16	CHECKED															
											CHANGES HAVE BEEN INCORPORATE AS PER C/A NO.-STE-16-F0058.				TITLE : 01 — OPTIONAL SPARES - LEAK OFF STEAM VALVE		CARD CODE		DRAWING NO. 3-13240-00001		—					
										SHEET No. 1		No. OF SHEETS 1		SIZE A3												

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm ) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	GMS No./ C.B.O.M.- NO.	STATUS OF DRG U				
		CHECKED			CHECKED						
ZONE			ZONE					AGREED DEPT	NAME	SIGN	DATE
								—	—	—	—
GRADE OF UNTOL.DIM                      M/CG. — AA0230208 m                      WELDING—CLASS 'B' OF AA0621104                      GAS CUTTING—TABLE 3 OF AA0621101											

SPARES APPLICABLE FOR LEAK-OFF STEAM VALVE WITH PNEUMATIC ACTUATOR

SL.NO.	CUSTOMER SPEC. CLAUSE NO.	DESCRIPTION	QUANTITY
01.	O-1	SEAL KIT FOR ACTUATOR OF GLAND STEAM LEAK-OFF VALVE (ONE SET MEANS QUANTITY REQUIRED FOR COMPLETE REPLACEMENT IN ONE ACTUATOR ASSEMBLY)	02 SET
02.	S-2	METALLIC SPIRAL WOUND GASKET OF EACH TYPE AND SIZE FOR GLAND STEAM LEAK-OFF VALVE	04 NO.
03.	S-14	GLAND STEAM LEAK-OFF VALVE WITHOUT ACTUATOR	02 NO.
04.	S-20	GLAND STEAM LEAK-OFF VALVE (SET OF INTERNAL REQUIRED TO COMPLETE ONE VALVE ASSEMBLY EXCEPT VALVE BODY AND BONNET)	02 SET
05.	S-25	GASKETS FOR GLAND STEAM LEAK-OFF VALVE (ONE SET MEANS QUANTITY REQUIRED FOR COMPLETE REPLACEMENT IN VALVE ASSEMBLY)	02 SET
06.	U-15	AIR LOCK RELAY FOR GLAND STEAM LEAK-OFF VALVE	01 NO.
07.	U-16	AIR FILTER REGULATOR FOR GLAND STEAM LEAK-OFF VALVE	01 NO.
08.	U-18	VOLUME BOOSTER FOR GLAND STEAM LEAK-OFF VALVE	01 NO.
09.	U-19	O-RINGS / SEALS FOR PNEUMATIC ACTUATOR OF GLAND STEAM LEAK-OFF VALVE	02 SET.
10.	U-20	PNEUMATIC ACTUATOR COMPLETE ASSEMBLY ALONG WITH ACCESSORIES FOR GLAND STEAM LEAK-OFF VALVE	01 NO.

NOTES:-


1. ALL THE MANDATORY SPARES SPECIFIED ABOVE SHALL BE MANUFACTURED EXACTLY SAME AS AGAINST MAIN SUPPLY.
2. INTERCHANGEABILITY OF THE MENTIONED ITEMS ARE FOR REPLACEMENT WITH THEIR PARTS FOR WHICH SUPPLY IS TO BE MADE AGAINST MAIN OFFER.
3. ALL THE SPARES MUST BE PACKED IN SEALED TRANSPARENT PLASTIC BAGS AND CLEARLY MARKED OR LABELLED ON THE OUTSIDE OF THE PACKING WITH ITS DESCRIPTION & ASSEMBLY PART NUMBERS.
4. QUALITY CHECKS & TESTING NORMS/REQUIREMENTS AS PER AGREED QUALITY PLAN (QP) SHALL ALSO BE APPLICABLE FOR ALL THE SPARES AS LISTED.
5. IF ANY ITEM IS NOT APPLICABLE THAN EQUIVALENT ITEM TO BE SUPPLIED BY THE VENDOR.
6. ALL MANDATORY SPARES ARE TO BE PACKED IN GREEN COLOUR BOX WITH " MANDATORY SPARES FOR LEAK-OFF STEAM VALVE" LABELED ON IT.

MAT. CODE: ST9731324003



BHARAT HEAVY ELECTRICALS LTD.  
RANIPUR, HARDWAR

	NAME	SIGN	DATE	NO. OF VAR
DRN	HARENDRA	-sd-	04.08.2025	
CHD	L.P. SINGH	-sd-	04.08.2025	
APPD	V.SRIVASTAVA	-sd-	05.08.2025	—

DEPT STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
CODE 4011		—	—	—	—	—
TITLE : SPARES FOR LEAK STEAM VALVE			CARD CODE	DRAWING NO. 4-13240-57510		
				SHEET No. 01   No. OF SHEETS 01		

A4 SIZE

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Ref.Drawing No>

Sign & Date

**PROJECT: 250 /500/660/700/800 MW PROJECT**

**DATE: 28.02.2025, REV05**

**ITEM: SMART POSITIONER FOR SEAL STEAM & LEAK STEAM CONTROL VALVE**

**ADDENDUM TO DRAWING NO:**

**APPLICATION: STEAM TURBINE**

**ADDITIONAL SPECIFICATION:**

1.0 **SCOPE:** This specification is intended to cover the requirements of Smart positioner for Pneumatic actuator of control valve.

2.0 **ELECTRICAL:**

- 2.1 Input signal shall be 4-20 mA from control system with Hart signal super- imposed.
- 2.2 Power supply: loop powered.
- 2.3 Valve position sensing to be provided, non-contact type, 4-20 mA for control system.

3.0 **ENVIRONEMENT:**

- 3.1 Operating temp shall be 0 to 70 degree C.
- 3.2 Humidity: 0-95%
- 3.3 Protection class shall be IP-65 minimum.

4.0. **SOFTWARE CONFIGURATION DIAGNOSTIC:**

- 4.1 Windows 2000/NT based software. Software shall meet the requirement for configuration, diagnostics, calibration and testing of the actuator. However, Software package for advanced diagnostic features is not required.
- 4.2 It shall be SMART and should have advanced diagnostic features like Travel Counter on line partial closure test, valve signature analysis, step response test, valve friction/jamming detection. The Positioner shall be advanced diagnostic compatible.
- 4.3 Factory valve signature tests reports (PR vs valve travel and Travel vs IP signal shall be provided.

5.0 **CONFIGURATION/OPERATING MODES:**

- 5.1 Calibration: Remote calibration, auto & manual calibration shall be possible.
- 5.2 Operating range: Full range & split range signal range.
- 5.3 Valve action: Direct & reverse valve action.
- 5.4 Flow characterization possible to fit valve linear, equal percentage.

## **6.0 FAIL SAFE**

6.1 In case control signal 4 – 20 mA DC fails, (Pneumatic supply in OK condition, the valve will move to the default Fail safe position (Fail Close --- for Leak as well as seal steam valves).

In case Pneumatic signal fails, control signal (4 – 20 mA DC) in OK condition, then Air inside the Actuator will be Locked by Air Lock Relay, thus Fail Lock condition will be achieved i.e. Last Position hold prior to Failure of Air supply.

## **7.0 PERFORMANCE:**

7.1 Characteristic deviation shall be  $\leq 0.5\%$  of SPAN.

7.2 Ambient temp. effect shall be  $\leq 0.01\%$  Deg. C or better.

## **8.0 ACCESSORIES:**

8.1 In built operator panel display with push buttons for configuration and display on the positioner itself (password/hardware Lock).

8.2 Air filter regulator to be provided.

8.3 Press Gauge Block for supply & output pressure, filter regulator other accessories shall be provided as on required basis for making system complete.

8.4 Junction Box to be provided. Junction Box Specification -18 Ways, ½” NPT 3 Nos. Cable entry. Weather Proof IP 65 Min.

8.5 Cable glands to be provided. Cable gland specification-Double Compression SS 304(Weather Proof IP 65)

8.6 Position transmitter whether integral part of positioner or not: To be specified by vendor.

## **9.0 DOCUMENTS TO BE PROVIDED:**

9.1 Datasheet including positioner model and make, Hook –up diagram to be complete input/output signals duly terminated onto JB.

## **10.0 PACKING:**

10.1 The positioner shall be loosely supplied in the main package with proper identification along with all fittings for mounting on the main valve and cables for termination to the Junction Box.

10.2 The Packing should be seaworthy (with silica gel) to avoid ingress of Moisture.

- 10.3 The positioner shall be packed in separate wooden box/compartment to avoid breakage.
- 10.4 Proper Labeling such as item name “Positioner”, “P.O.” etc. shall be clearly indicated on the wooden Box for identification in case of misplacement.
- 10.5 Two sets of Mounting and Calibration Instruction manual shall be sent along with the positioner.
- 10.6 O&M manual for mounting and calibration of positioner shall be submitted along with the offer.

Prepared:  
(Mudit Jain) Sd/-  
(CIE)

Checked:  
(Saswati) Sd./-  
(CIE)

Approved:  
(Vinod Kumar) Sd./-  
(CIE)



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2-13240-39000  
Ref. Drawing No.

Sign & Date

Inventory No

000575-13240-2  
DRAWING No.

TECHNICAL REQUIREMENTS:

1. DESIGN AND MANUFACTURING REQUIREMENTS:

- 1.1 SUPPLIER TO OFFER THE VALVE & ACTUATOR SUITING TO THE INPUT PARAMETERS AS SPECIFIED IN THE TABLE-1 & 2. SUPPLIER TO KEEP ATLEAST 10% MARGIN OVER THE REQUIRED Cv WHILE SELECTING THE VALVE.
- 1.2(ii) VALVE SHALL BE FLANGED ENDED AT INLET/OUTLET AND COUNTER FLANGES (RAISED FACE & WELDING NECK TYPE CONFORMING TO ASME B16.5-2003) OF MATERIAL GRADE ASTM A182 F11 SHALL BE SUPPLIED BY THE VENDOR ALONG WITH ASSOCIATED FASTENERS AND SEALINGS. END CONNECTIONS OF COUNTER FLANGES SHALL BE PROVIDED AS PER TABLE-3 TO MATCH WITH THE PIPES IN BHEL SCOPE. EXPANDER/REDUCER, IF REQUIRED, SHALL BE PROVIDED BY THE SUPPLIER OF MATERIAL GRADE ASTM A217 WC6. ALTERNATIVELY, COUNTER FLANGES & EXPANDER/REDUCER OF MATERIAL GRADE ASTM A217 WC6 IS ALSO ACCEPTABLE PROVIDED RT SHALL BE CARRIED OUT AS PER PROCEDURE MENTIONED IN ASME B16.34 & ACCEPTANCE CRITERIA SHALL BE SEVERITY LEVEL-1 AS PER ASTM E446/ASTM E280 DEPENDING UPON APPLICABLE THICKNESS.
- 1.2(ii) HORIZONTAL & VERTICAL DIMENSION LIMITS SHOWN IN THE PROPOSED ARRANGEMENT DRAWING OF VALVE SHALL BE COMPLIED BY THE VENDOR. WEIGHT OF THE COMPLETE ASSEMBLY OF VALVE INCLUDING ACTUATOR SHALL NOT EXCEED 2000 KG.
- 1.4 VALVE BODY MATERIAL SHALL CONFORM TO ASTM A217 Gr. WC6. VALVE TRIM MATERIAL SHALL CONFORM TO 316SS STELLITE WITH STELLITE FACEDGUIDE POSTS AND BUSHINGS.
- 1.5 VALVE CLASS: ASME 300.
- 1.6 VALVE CHARACTERISTICS SHALL BE EQUAL PERCENTAGE.
- 1.7 VALVE LEAKAGE CLASS: CLASS IV AS PER ANSI FCI 70-2.
- 1.8 THE VALVE MUST BE DESIGNED KEEPING IN VIEW OF THE FOLLOWING DATA:

(i) AMBIENT TEMPERATURE: 4°C TO 50°C

(ii) MAX. RELATIVE HUMIDITY : 97%

(iii) MAX. EARTHQUAKE FACTORS HORIZONTAL : 0.3G (SAFE OPERATION)/0.4G (LIMIT OF INTEGRITY)

(iv) MAX. EARTH QUAKE FACTORS VERTICAL : 0.2G (SAFE OPERATION)/0.25G (LIMIT OF INTEGRITY)

(V) NOISE LEVEL AT 1M DISTANCE: <= 85 DB(A)
- 1.9 FUNCTION OF VALVE ACTUATOR SHALL BE 'AIR TO OPEN AND SPRING TO CLOSE'.
- 1.10 SMART TYPE POSITIONER, AIR VOLUME BOOSTER, AIR LOCKING SYSTEM FOR STAYPUT ACTION, FILTERS, STOP VALVES, ASSOCIATED PIPES AND PIPE CONNECTORS SHALL BE SUPPLIED BY THE VENDOR ALONG WITH THE ACTUATOR.
- 1.11 MOUNTING POSITION OF THE VALVE SHALL BE HORIZONTAL WITH VERTICAL SPINDLE.
- 1.12 HANDWHEEL SHALL BE PROVIDED IN THE ACTUATOR FOR MANUAL OPERATION. PROVISION SHALL BE MADE BY THE VENDOR FOR MANUAL RELEASE OF AIR WHICH GETS TRAPPED IN THE ACTUATOR IN CASE VALVE IS ON 'STAYPUT' DURING AIR SUPPLY FAILURE.
- 1.13 THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE OFFER AS COMMISSIONING SPARES:

(i) PACKING AND GASKETS: 1 SET

(ii) LOCK WASHER FOR FLANGE: 1 COMPLETE SET FOR EACH FLANGE CONNECTION.
- 1.14 GASKET MATERIAL MUST BE PROVIDED FREE FROM HARMFUL POLLUTION LIKE ASBESTOS AND FERRITE AND SHOULD HAVE AN EXTRAORDINARY TEMPERATURE RESISTANCE.
- 1.15 THE VALVE SHALL BE IBR APPROVED.
- 1.16 THE VALVE SIZING SHALL BE SUITABLE FOR OBTAINING MAXIMUM OPERATING CONDITIONS WITH VALVE OPENING AT APPROXIMATELY 80% OF TOTAL TRAVEL. VALVES SHALL BE OPEN NOT LESS THAN 15 % OF FULL OPENING FOR MINIMUM FLOW CONDITION AND SHALL BE CAPABLE OF HANDLING AT LEAST 120% OF THE REQUIRED MAXIMUM FLOW AT FULL OPEN CONDITION.

2. TESTING REQUIREMENTS:

- 2.1 Cv TEST SHALL BE CARRIED OUT AS TYPE TEST ON EACH SIZE, TYPE AND DESIGN OF THE VALVES AS PER ISA 75.02 STANDARD & TEST REPORT SHALL BE SUBMITTED FOR BHEL REVIEW AND APPROVAL OR FURNISH TYPE TEST REPORT (NOT OLDER THAN 5 YEARS) OF VALVE OF SAME SIZE, TYPE & SPECIFICATIONS.
- 2.2 FOLLOWING TESTS SHALL BE PERFORMED ON VALVE & TEST REPORTS SHALL BE SUBMITTED FOR BHEL REVIEW:-

2.2.1 SHELL STRENGTH TEST AS PER TEST P10 OF EN12266 PART-1 (LATEST EDITION ) OR EQUIVALENT TEST AS PER ANSI / ASME STANDARD.

2.2.2 SHELL TIGHTNESS TEST AS PER TEST P11 OF EN12266 PART-1 (LATEST EDITION) OR EQUIVALENT TEST AS PER ANSI / ASME STANDARD.

2.2.3 SEAT TIGHTNESS TEST AS PER EN60534-4 (LATEST EDITION) OR ANSI FCI 70-2 (LATEST EDITION). ACCEPTANCE CRITERIA LEAKAGE CLASS-IV.

2.2.4 VALVE SHALL BE FUNCTIONALLY TESTED TO CHECK IT'S DESIGN CHARACTERISTICS.

2.2.5 VENDOR TO CLEARLY SPECIFY(AT OFFER STAGE) THE CODES/STANDARDS TO BE USED FOR TESTS MENTIONED AT CLAUSE 2.2.1, 2.2.2, 2.2.3 & 2.2.4 ABOVE.
- 2.3 NDT (RT & UT) SHALL BE PERFORMED ON VALVE COMPONENTS AS PER ASME B16.34.

FIRST ANGLE PROJECTION

( ALL DIMENSIONS ARE IN mm )

FORM DG 44(B)

3. DOCUMENTS TO BE SUBMITTED BY THE SUPPLIER:

- 3.1 DOCUMENTS TO BE SUBMITTED ALONGWITH THE OFFER:

(i) DATA SHEET OF VALVE & ACTUATOR (THE VALVE DATASHEET SHALL INCLUDE ALL TECHNICAL DATA).

(ii) SIZING CALCULATIONS OF VALVE & ACTUATOR.

(iii) CROSS-SECTIONAL DRAWING OF VALVE AND PNEUMATIC ACTUATOR ALONGWITH BILL OF MATERIAL.

(iv) VALVE CHARACTERISTIC CURVES.

(v) GENERAL ARRANGEMENT DRAWING OF VALVE ALONG WITH ACTUATOR INDICATING OVERALL DIMENSIONS, REQUIRED MAINTENANCE SPACE, DETAILS OF WELD ENDS, OVERALL ASSEMBLY WEIGHT & DIRECTION OF FLOW.

(vi) HOOK-UP DIAGRAM ALONG WITH IT'S FUNCTIONAL WRITE-UP.

(vii) CATALOGUES OF ALL ACCESSORIES e.g. POSITIONER, VOLUME BOOSTER, AIR LOCK RELAY, AIR FILTER & REGULATOR.

(viii) REQUIRED SUPPLIED AIR PRESSURE, SPRING RANGE, TUBING/CONNECTION SIZE.

(ix) RECOMMENDED QUALITY & QUANTITY OF AIR.

(x) LIST OF COMMISSIONING SPARES.

(xi) PRICED LIST OF RECOMMENDED SPARES AS PER BHEL DRG. NO. 31324000001 . IN ADDITION TO THE SPARE PARTS AS PER BHEL DRG., THE VENDOR SHALL ALSO INCLUDE PRICED LIST OF RECOMMENDED SPARES FOR 5 YEARS OF NORMAL OPERATION OF THE PLANT.

3.2 DOCUMENTS TO BE SUBMITTED IN THE EVENT OF ORDERING:

- (i) IN THE EVENT OF ORDERING THE FOLLOWING DOCUMENTS ARE REQUIRED TO BE SUBMITTED WITHIN 4 WEEKS OF PLACEMENT OF PURCHASE ORDER & GOT APPROVED BY BHEL BEFORE START OF ANY MANUFACTURING ACTION.

(a) VALVE & ACTUATOR DATASHEET.

(b) CROSS-SECTIONAL DRAWING OF VALVE AND ACTUATOR ALONGWITH BILL OF MATERIAL.

(c) GENERAL ARRANGEMENT DRAWING OF VALVE ALONG WITH ACTUATOR INDICATING OVERALL DIMENSIONS, REQUIRED MAINTENANCE SPACE, DETAILS OF WELD ENDS, OVERALL ASSEMBLY WEIGHT & DIRECTION OF FLOW.

(d) HOOK-UP DIAGRAM OF VALVE WITH ACTUATOR, POSITIONER, FILTERS & GAUGES ETC.
- (ii) ONE (1) REPRODUCIBLE ORIGINAL + 25 HARD COPIES+7 CDS OF O&M MANUAL SHALL BE SUPPLIED BY THE VENDOR. OUT OF THESE, 3 HARD COPIES+ 1 CD SHALL BE SENT TO SITE ALONGWITH THE EQUIPMENT & REMAINING ONE (1) REPRODUCIBLE ORIGINAL +22 COPIES+6 CDS SHALL BE SENT TO BHEL, HARIDWAR WITHIN 12 WEEKS OF PLACEMENT OF P.O.

4. GENERAL REQUIREMENTS :-

- 4.1 GUARANTEE: GUARANTEE PERIOD SHALL BE 24 MONTHS FROM THE DATE OF SHIPMENT OR 18 MONTHS FROM THE DATE OF COMMISSIONING, WHICHEVER IS EARLIER. INCASE OF ANY FAILURE OR TROUBLE REPORTED FROM THE SITE, THE SUPPLIER WOULD DEPUTE THEIR REPRESENTATIVE IMMEDIATELY TO ATTEND THE PROBLEM AND REPLACE THE DEFECTIVE COMPONENT/ PARTS, IF REQUIRED.
- 4.2 PAINTING: THE PAINTING SURFACE SHALL BE PREPARED ACCORDING TO ISO 8503-1 Sa 2 1/2. WELDING END SHALL BE 80mm PAINT FREE. VALVE BODY IS TO BE PAINTED WITH ALUMINUM PAINT AS PER IS:13183 Gr.1 WITH PAINT THICKNESS OF MINIMUM 70 MICRONS. HOWEVER, PAINTING SHALL BE SUBJECT TO CUSTOMER APPROVAL. BHEL SHALL PROVIDE CUSTOMER APPROVED PAINTING SCHEME/ SCHEDULE AFTER ORDERING FOR COMPLIANCE BY THE VENDOR.
- 4.3 PACKING & DESPATCH:

(I) THE VALVE SHALL BE PACKED AND LOCKED IN SUCH A WAY, THAT IN GENERAL CASE ANY DAMAGE IS PROHIBITED.

(II) ALL OPENINGS SHALL BE PLUGGED.

(III) AS FAR AS POSSIBLE NECESSARY ACCESSORY DEVICES FOR TRANSPORTATION PURPOSE SHALL BE ATTACHED TO THE VALVE AND/OR TO THE PACKING e.g. LIFTING EYES & LIFTING SIGNS.

(IV) BEARING AREAS SHALL BE MARKED IF NECESSARY.

(V) VALVE SHALL HAVE AN ARROW PERMANENTLY FIXED ON THE VALVE BODY TO INDICATE THE CORRECT DIRECTION OF FLOW.

(VI) VALVE SHALL HAVE A STAINLESS STEEL NAME PLATE PERMANENTLY FASTENED TO THE YOKE WHICH SHALL BE VISIBLE WHEN THE VALVE IS IN SERVICE. THE NAME PLATE SHALL INCLUDE-

(i). TAG NO. AND VALVE SERIAL NO.

(ii). BODY MATERIAL, SIZE AND PRESSURE RATING

(iii). TRIM MATERIAL, SIZE CHARACTERISTICS

(iv). ACTION ON AIR FAILURE

(v). SPRING RANGE

(vi). STEM TRAVEL

(vii). VALVE ACTION, ETC.
- 4.4 THE SUPPLIER SHALL BEAR FULL RESPONSIBILITY FOR COMPLIANCE OF ALL THE PARTS & COMPONENTS SUPPLIED IN PURSUANT TO THIS SPECIFICATION WITH THE FULL SCOPE OF SAFETY REGULATIONS OF THE COUNTRY.

MAT. CODE : ST9031324000

GMS No./ CBOM No.		STATUS OF DRG	
AGREED DEPT	NAME	SIGN	DATE
CIE	SASWATI	—SD—	13.10.2025

GRADE OF UNTOL.DIM			
M/CG.—Ø/M/ƒ	AA0230208		
WELDING—A/B/Ø/Ø	AA0621104		
GAS CUTTING—'T3'	AA0621101		

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		STEAM TURBINE					
<div><div>बोयचर्ड एल</div><div>BHEL</div></div>		BHARAT HEAVY ELECTRICALS LTD.		RANIPUR, HARDWAR			
DRN	LOKESH	— sd —	06.10.2025	NO. OF VAR	73 74		
CHD	L.P.SINGH	— sd —	07.10.2025				
APPD	V.SHARAN	— sd —	10.10.2025				
DEPT	STE	<div><div></div><div></div></div>	SCALE N.T.S	WEIGHT (KG) —	REF. TO ASSY. DRG. —	ITEM No. —	NO. OF ITEMS 75 77
CODE	4011	TITLE LEAK STEAM CONTROL VALVE WITH PNEU. ACT.		CARD CODE 7	DRAWING NO. 2-13240-57500 22 23 24		
				SHEET No. 02		No. OF SHEETS 02	

DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH  
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017- REVISION  
DATED 19<sup>TH</sup> 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 19<sup>th</sup> July, 2024 and subsequent order(s).

Ref: 1) Tender Enquiry No: .....

2) All other pertinent issues till date

We hereby certify that the items 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 2017Revision dated 19.07.2024 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 practicing 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.



## **BHARAT HEAVY ELECTRICALS LIMITED**

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

**For Indian Bidders (Version Jun-2025, Rev: 08)**

### **Annexure-3**

#### **Declaration for treatment of cases regarding conflict of interest**

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:

- a) 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;
- b) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;
- c) 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.
- d) 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)