

BUYERS SPECIFIC ADDITIONAL TERMS & CONDITIONS**ITEM NAME:** SEAL STEAM SUPPLY VALVE WITH PNEUMATIC ACTUATOR**PROJECTS:** BHADRADRI TPS U-1:270MW TELANGANA STATE POWER GENERATION CORP.LTD.**SCOPE OF ENQUIRY:**

E-bids on GeM portal are invited from bidders for the supply of SEAL STEAM SUPPLY VALVE WITH PNEUMATIC ACTUATOR for BHADRADRI TPS U-1 project, as per requirement mentioned below:

Sl. No.	Material Code & Item Description	Total Quantity	Projects	LOT Quantity	Delivery Requirement
1.	W90313239177 DRG: 21323929000 REVS :00 SEAL STEAM SUPPLY VALVE WITH PNEUMATIC ACTUATOR	2 No.	BHADRADRI TPS U-1	2 No.	Within 90 days from Purchase order. Early delivery is acceptable.

1. Project Detail with consignee address:

Project Name	BHADRADRI TPS- 4x270MW
Consignee Address	ASSISTANT DIVISIONAL ENGINEER (ADE) STORES & SERVICES BTPS MANUGURU, DISTT. KHAMMAM PIN – 507117 (TELANGANA)

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

Sl. No.	Terms	Description	Supplier confirmation
1.	Special Instruction	Please inform 8-digit HSN code for SEAL STEAM SUPPLY VALVE WITH PNEUMATIC ACTUATOR.	
2.	Documents Checklist:	Please submit signed and stamped copy of your offer on each page along with following documents; • Buyer Specific T&C. • Technical PQR & its supportive document. • Technical drawing & purchase specification. • Certificate/self-certification for minimum local content as per PPP-MII order. • Replica of price bid schedule without prices with part-I offer.	
3.	Special Instruction of Technical requirement	AT THE TIME OF OFFER THE VENDOR TO FURNISH THEIR PRICED OFFER AGAINST EACH ITEM MENTIONED IN BHEL DWG NO. 31323900001 FOR NEXT 5 YEARS ORDERING. HOWEVER, KINLDY NOTE THAT THIS COST SHALL NOT BE USED FOR ESTABLISHING L-1 IN CURRENT TENDER AT THE TIME OF OFFER, ALL THE VENDORS TO ENSURE TO FURNISH DULY FILLED CHECK LIST FOR SEAL STEAM VALVE (AS PER ANNEXURE-B) TO CONFIRM BHEL SPECIFICATION REQUIREMENTS. AT THE TIME OF OFFER ALL THE VENDORS TO ENSURE TO FURNISH DULY FILLED ANNEXURE- C AND SUBMIT ALL THE DOCUMENTS ACCORDINGLY ADDITIONAL SPECIFICATION FOR SMART TYPE POSITIONER AS PER DOCUMENT NO. 41810250001_REV05 SHALL BE COMPLIED BY ALL THE VENDORS. VENDOR TO SUBMIT PACKING LIST OF ITEMS FOR BHEL REVIEW AFTER PLACEMENT OF P.O. AND BEFORE DISPATCH. IN CASE OF ANY CONFLICT BETWEEN STIPULATIONS IN VARIOUS PORTIONS OF THE SPECIFICATIONS, MOST STRINGENT STIPULATION WOULD BE APPLICABLE FOR IMPLEMENTATION BY THE VENDOR WITHOUT ANY EXTRA COST TO THE BHEL. 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. THE SPECIAL TOOLS AND TACKLES/ EQUIPMENT SHALL BE DELIVERED BY THE VENDOR IN LOCKABLE STEEL BOXES AND SHALL BE MARKED FOR IDENTIFICATION PURPOSES ANONGWITH CORRESPONDING TOOL CHART. ADDITIONAL SPECIFICATION FOR SEAL STEAM VALVE AS PER DOCUMENT	

		"STE-TG ADDENDUM" SHALL BE COMPLIED BY ALL THE VENDOR.	
4.	Quality Requirement	VENDOR BE ASKED TO CONFIRM AND ENDORSE BHEL SQP QA_BI_QP_111_NN REV00.	
		VENDOR BE ASKED TO CONFIRM THAT INSPECTION SHALL BE DONE BY BHEL NOMINATED INSPECTION AGENCY M/S QUEST. AS PER BHEL SQP QA_BI_QP_111_NN REV00.	
		The Charges for Pre-Inspection would be borne by BHEL. However at least 15 days' notice is to be provided for arranging Pre-Inspection.	
5.	Guarantee	Kindly confirm that Guarantee shall be provided for a period of "24 months from the date of dispatch or 18 months from the date of commissioning, whichever is earlier" . 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.	
6.	O&M Manuals	Kindly confirm that in the event of ordering, 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.	
		Kindly confirm that in the event of ordering, 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.	
7.	Compliance of GTC on GeM	General Terms and Conditions on GeM 4.0 (Version 1.29) Dtd -25/03/2026 or it's latest revision on GeM portal shall be applicable against this enquiry. Kindly confirm to compliance the same for this tender.	
8.	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.	
9.	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.	
10.	Make in India Clause	"For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non-local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 19.07.2024 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT". As per Make in India Order, only Class-1 and Class-2 local supplies are eligible to bid in this tender enquiry. For this eligibility criteria, bidders are required to submit certificate of Minimum local content as specified in attached Make In India Declaration format.	
11.	Compliance of Rule 144 (xi) of GFR 2017	Compliance of Restrictions under Rule 144 (xi) of GFR 2017 shall be as per GeM.	
12.	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.	
13.	Loading and	Vendor's scope will not cover Loading & Unloading at Final destination of delivery.	

	unloading	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									
14.	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.									
		Delivery Term shall be Ex-Works with freight Pre-paid up to project destination basis. 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									
15.	Special Instructions:	a) Please inform 8-digit HSN code for SEAL STEAM SUPPLY VALVE WITH PNEUMATIC ACTUATOR. b) 08 DIGIT GST HSN CODE to be provided & mentioned in your invoice & packing list. c) Invoice, GR/LR, packing list, Test certificate are required in original for billing to end user. d) 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.									
16.	Evaluation criteria	Evaluation would be done on the basis of total landed cost for the complete scope/requirement covered in the enquiry.									
17.	Evaluation Currency	The evaluation currency for this tender shall be INR.									
18.	Payment terms:	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).									
		<table><tr><td>Type of Bidder</td><td>Payment Terms (Number of Days)</td></tr><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></table>	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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		The Payment terms are subject to receipt of non-discrepant document from supplier. Note: This is in supersession of 10 days' time as provided in Clause 12 of GeM GTC and also 45 days from CRAC as provided in the standard format of GeM Bid under Payment Timelines.									
19.	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.									
20.	Contract execution	Bidder's are advised to read GeM related query & clarification carefully on GeM portal. Order shall be executed through GeM.									

21.	Quantity Variation	BHEL reserves the right to cancel tender or reject any or all the quotations without assigning any reasons thereof. 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. 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. 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.	
22.	Delivery Period	Please note that BHEL's Delivery requirements are mentioned above under heading Scope of Enquiry. 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. Delivery period indicated in GeM bid is only indicative and final delivery of tender shall be taken as mentioned above. 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.	
23.	Technical Document/ Drawing approval conditions	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. 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. 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.	
24.	Liquidated Damages (LD) for late delivery	Liquidated Damages shall be lot wise as per clause no. 15 (iii) of General terms and conditions on GeM 4.0 (Version 1.29) as under: kindly confirm. "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 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.	
25.	MDCC clause	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 & acceptance of the quality document, BHEL will forward the same to end customer for issuance of MDCC. 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 & binding. 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. Kindly confirm.	
26.	BREACH OF CONTRACT, REMEDIES AND	The following shall amount to breach of contract:	

	TERMINATION:	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 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:	
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		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 other agency and BHEL will not be required to furnish any other evidence to the Supplier/Vendor for the purpose of estimation of damages. 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. Note: 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: (a) In case defaulted Supplier/Vendor is the Sole Proprietorship Firm, any Sole Proprietorship Firm owned by same Sole Proprietor. (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.	
27.	Suspension of Business Dealings with Suppliers / Contractors:	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. 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.	
28.	Settlement of Dispute, CONCILIATION & ARBITRATION:	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. 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). 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. 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.	
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29.	Action against Bidders / 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”													
30.	MICRO AND SMALL ENTERPRISES (MSE):	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. <table border="1"> <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> 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.	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															
31.	ALL MSME PAYMENTS FOR GOODS OR SERVICES TO BE MANDATORILY SETTLED THROUGH TReDS	"In respect of procurement of goods or services from Micro, Small and Medium enterprises (MSMEs), the settlement of invoice shall be only through any of the TReDS platform (i.e. RXIL, MI xchange, Invoicemart, KReDX, C2FO), authorised by the Reserve Bank of India. Such MSME suppliers to select their preferred TReDS platform before award of contract. They also will have the option to change the TReDS platform from the drop down menu on Suvridha portal of BHEL, at the time of invoice submission. The routing of invoices through the TReDS platform shall not be construed as mandating discounting of such invoices and the MSMEs supplier shall have the option to avail or not avail financing or discounting of its receivables on the TReDS platform. In case discounting is not availed by the supplier on TReDS, the trade receivables will be paid through TReDS as per the payment timelines indicated in the contract."													
32.	JURISDICTION:	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.													
33.	Force Majeure	"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. 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, goslow or similar labour difficulty (b) late delivery of equipment or material (unless caused by Force Majeure event) and (c) economic hardship. 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. Delay or non-performance by either party hereto caused by the occurrence of any event of Force Majeure shall not 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. 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	
34.	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.	
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: - Amendments/Clarifications/Corrigenda/Errata etc. issued in respect of the tender documents by BHEL. - Buyer Added Bid Specific ATC - GeM Bid Technical Conditions of Contract (TCC) - GeM GTC	
36.	Conflict of interest:	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: - they have controlling partner (s) in common; or - they receive or have received any direct or indirect subsidy/financial stake from any of them; or - they have the same legal representative/agent for purposes of this bid; or - 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 - 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 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 authorize only one agent/dealer. There can be only one bid from the following: 1. The principal manufacturer directly or through one Indian agent on his behalf; and 2. Indian/foreign agent on behalf of only one principal- or 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 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.	
37.	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.	
38.	Beneficiary of PO	Kindly confirm on whom the PO will be placed in the event of ordering.	
39.	IP Address	The bids received from same IP address shall be outrightly rejected and shall not be considered for further evaluation.	
40.	Dispatch documents	Following dispatch documents to be provided immediately after directly dispatch to BHEL Project site for billing purpose: • Guarantee/Warrantee Certificates • E- Invoice and commercial invoice • GeM invoice • Original consignee copies of GR/LR/RR (Material shall be dispatched on door delivery basis without consignee copy) • Packing list • Original GST compliance certificate • E-way bill • MRC/POD/Receipted LR/RR/GR copy (as per proof of delivery of material at BHEL Project site)	
41.	Additional Conditions for Assessment	BHEL reserves the right to consider / Not-consider the offers based on the evaluation of documents submitted for the Pre-Qualification Criteria (PQR). BHEL also reserves the right to have on-site assessment of the facilities at supplier's works during the bid evaluation.	
42.	Bidder Contact details	Please provide Contact details of your representative for techno-commercial clarifications: Mobile no. & Email id (minimum 2 person)	
43.	"Environmental compliance for transportation vehicles –	In case of award of contract against this NIT, it is to be ensured by seller that all vehicles deployed for transportation of material to BHEL premises/ project sites comply with the applicable emission norms prescribed by the Central/State Pollution Control Authorities and other statutory authorities. The vehicles shall possess a valid Pollution Under Control (PUC) Certificate throughout the period of transportation. BHEL reserves the right to verify the validity of the PUC certificate at the time of entry of the vehicle into the premises. Non-compliance may result in denial of entry of the vehicle and any consequential delay shall be to the seller's account."	

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.
- 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 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.
- 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 SEAL STEAM VALVE

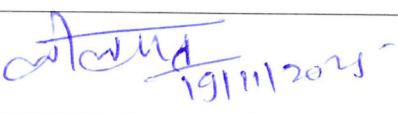
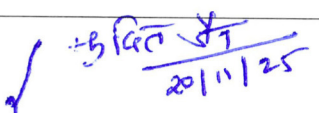
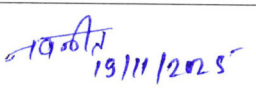
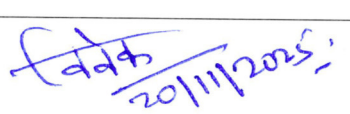
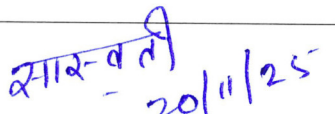
1. The vendor should have experience of designing, manufacturing & supply of control valve that has been used in steam applications of Steam turbines of rating 210 MW or above as per following details:

Sl. no.	Parameters	Vendor's response
1.1	Design pressure: 16 bar or above	
1.2	Design temperature: 360 °C or above	
1.3	Valve size: 3" or above	
1.4	Working medium: steam	
1.5	ANSI class of the supplied valves shall be ASME 300 or higher.	
1.6	Operating time for full control stroke shall ≤ 3 seconds	
1.7	Valve leakage class: Class IV as per ANSI FCI 70-2.	
1.8	Actuators of the valve shall be pneumatically operated	
1.9	The vendor shall have experience of SMART type positioner.	

2. 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 210 MW or above, which has been commissioned at least one year before as on date of bid opening. The vendor to submit experience details as per **Annexure-A** along with relevant documents of supplied valve & its actuator along with accessories like datasheets & drawings etc. to support their claim.

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.

	STE-TG	CIE
Prepared by	 19/11/2025	 20/11/25
Checked by	 19/11/2025	
Approved by	 20/11/2025	 20/11/25

ANNEXURE-A

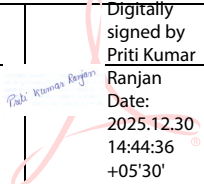
Experience details for seal steam valve:

SL. No.		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, Fax no. & contact No.		
3	Name and designation of the responsible person in client's organization /Power plant		
4	Capacity in MW of unit		
5	P.O. no. and date		
7	Date of commissioning of above project		
8	Manufactured by		
9	Evidence of supplying the valve for above mentioned project viz. Invoice copy/end user certificate (shall not be more than 10 years old as on date of bid opening)		
10	Design parameters		
	Design pressure	16 bar (a) or above	
	Design temperature	360 °C or above	
11	Size of the valve	> 3"	
12	Operating time of actuators (open/close)	< 3 sec	
13	Leakage class	Class IV as per ANSI FCI 70-2	
14	Type of actuator	Pneumatically actuated	
15	Working medium	Steam	
16	Valve type	Control valve	
17	Positioner Type	SMART type	

Attny
19/11/2025

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN					TO BE FILLED BY BHEL		TO BE FILLED BY BHEL				
BHEL	VENDOR'S NAME	ITEM	SEAL STEAM SUPPLY VALVE WITH PNEUMATIC ACTUATOR	QP NO.	QA_BI_QP_111_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	 Digitally signed by Priti Kumar Ranjan Date: 2025.12.30 14:44:36 +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	SEAL STEAM SUPPLY VALVE WITH PNEUMATIC ACTUATOR	QP NO.	QA_BI_QP_111_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 14:44:51 +05'30'	LEGEND:	FOR CUSTOMER USE	APPROVED BY
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MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN					TO BE FILLED BY BHEL		TO BE FILLED BY BHEL				
BHEL	VENDOR'S NAME	ITEM	SEAL STEAM SUPPLY VALVE WITH PNEUMATIC ACTUATOR	QP NO.	QA_BI_QP_111_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		

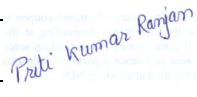
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MANUFACTURER/SUBCONTRACTOR	Digitally signed by Priti Kumar Ranjan Date: 2025.12.30 14:45:04 +05'30'		

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN					TO BE FILLED BY BHEL		TO BE FILLED BY BHEL				
BHEL	VENDOR'S NAME	ITEM	SEAL STEAM SUPPLY VALVE WITH PNEUMATIC ACTUATOR	QP NO.	QA_BI_QP_111_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 S/A & Packing	Verification	MA	Verification	100%	BHEL APPROVED DATA SHEET/DRAWING	BHEL APPROVED DATA SHEET/DRAWING	IR	√	P	-			

▪ Note:

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

MANUFACTURER/SUBCONTRACTOR	 Digitally signed by Priti Kumar Ranjan Date: 2025.12.30 14:45:18 +05'30'	LEGEND:	FOR CUSTOMER USE	APPROVED BY
		! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.		
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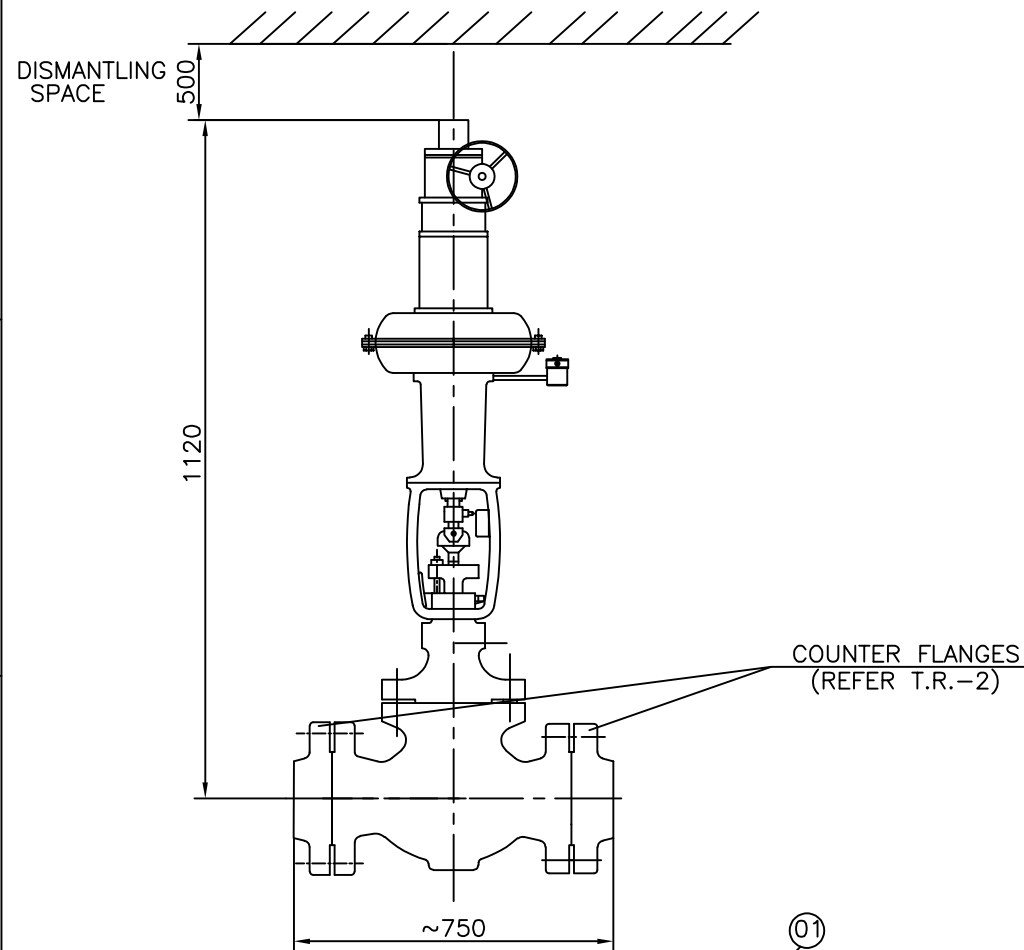
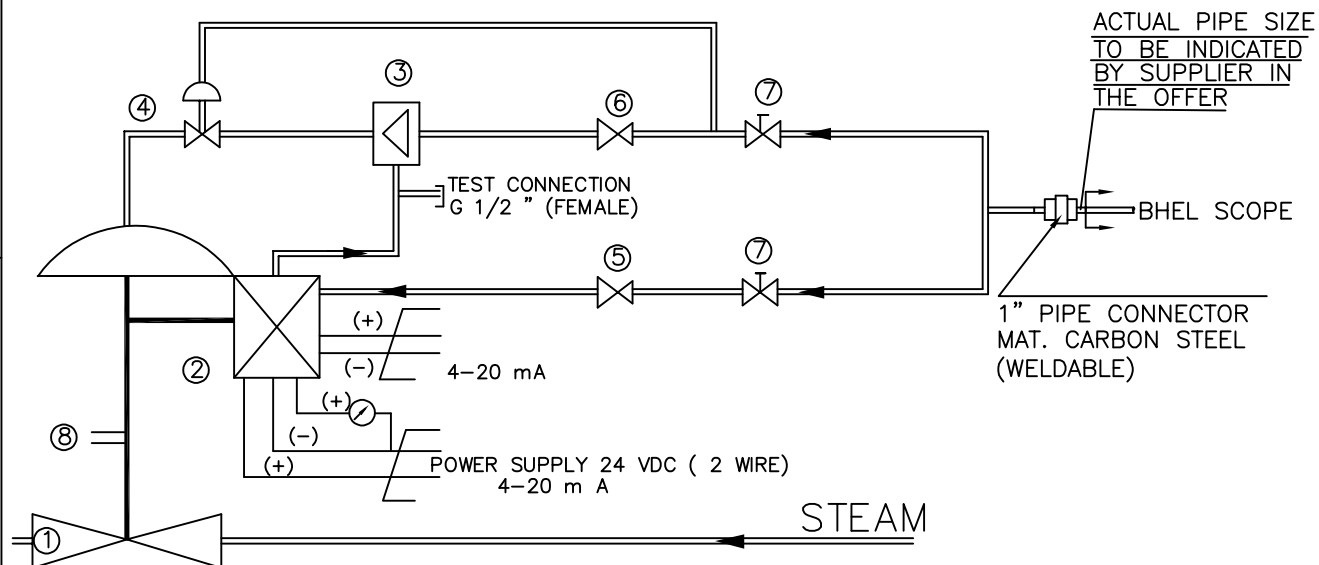
DRAWING No.

ACTUATOR DATA :-

TYPE	ELECTRO - PNEUMATIC
ΔP ACTUATOR	16 bar
TYPE OF DRIVE	DIAPHRAGM
CLOSING/OPENING TIME	3 sec.
PNEUMATIC CONNECTION	1" WELDABLE
POSITIONER	SMART TYPE POSITIONER (APPLICABLE SPECIFICATION NO. 41810250001)
INPUT CONTROL SIGNAL	4 TO 20 mA.
DEGREE OF PROTECTION OF POSITIONER	IP65
ELECTRONIC POSITION FEEDBACK TRANSMITTER FOR BHEL USE	2 WIRE TYPE, NON CONTACT, 4~20 mA OUTPUT, 24 V DC
FAILURE MODE	STAYPUT

VALVE DATA:-

INLET WORKING PRESSURE	15.69 BAR(abs)
OUTLET PRESSURE	1.023 bar(abs)
TEMPERATURE	320°C
FLOW RATE	0.8431 kg/sec.
WORKING MEDIUM	STEAM
DESIGN PRESSURE	16 BAR (abs.)
DESIGN TEMP.	360°C

PROPOSED ARRANGEMENT OF
SEAL STEAM SUPPLY VALVE

ITEM DESCRIPTION

- CONTROL VALVE
FUNCTION: AIR TO OPEN
SPRING TO CLOSE
- I/P-POSITIONER
- AIR VOLUME BOOSTER
- BLOCKING VALVE
- FILTER AND REDUCING STATION
- FILTER AND REDUCING STATION
- STOP VALVE G 1/4"
- STEAM LEAKAGE CONNECTION
DIA. 13.5X2.6 FROM VALVE

MAT. CODE: W90313239177

SCHEMATIC DIAGRAM FOR CONTROL
VALVE OF GLAND STEAM SYSTEM

GRADE OF UNTOL.DIM
M/CG.-G/M/F AA0230208
WELDING-A/B/G/D AA0621104
GAS CUTTING-T3'AA0621101

AGREED DEPT	NAME	SIGN	DATE
CIE	K.B. BATRA	-SD-	19.03.07

GMS No./ CBOM No.
STATUS OF DRG

TYPE OF PRODUCT
OR
NAME OF CUSTOMER/PROJECT

STEAM TURBINE

BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

NAME	SIGN	DATE	NO. OF VAR
DRN K.J.S	- sd -	02.01.08	-
CHD N.G	- sd -	02.01.08	-
APPD B.S.G.	- sd -	02.01.08	73 74

DEPT STE

SCALE

WEIGHT (KG)

REF. TO ASSY. DRG.

ITEM

NO. OF

ITEMS

CODE 4011

NTS

100.00 (APPX.)

-

-

-

75 77

TITLE : SEAL STEAM VLV.
WITH PNEU.ACT.CARD
CODEDRAWING NO.
2-13239-29000 -

SHEET No. 01 No. OF SHEETS 02

TECHNICAL REQUIREMENTS: –

- A. TECHNICAL REQUIREMENTS OF VALVE ALONG WITH PNEUMATIC ACTUATOR WITH HAND WHEEL, AIR VOLUME BOOSTER, AIR LOCKING SYSTEM FOR STAY PUT ACTION, ASSOCIATED PIPES AND CONNECTORS SHALL BE AS FOLLOWS:-
 1. FUNCTION :- AIR TO OPEN, SPRING TO CLOSE.
 2. VALVE SHALL BE SUPPLIED ALONGWITH SUITABLE COUNTER FLANGES (WNRF), ASSOCIATED FASTENERS AND SEALINGS FOR INLET & OUTLET AS PER ASME B16.5-2003. VENDOR TO SUPPLY COUNTER FLANGES OF MATERIAL GRADE A105 TO MATCH WITH PIPE SIZE $\phi 168.3 \times 4.78$. (IN BHEL SCOPE). THE FACE TO FACE DISTANCE OF THE VALVE SHALL CONFORM TO ASME B16.10-2000 AND DIMENSION SHOWN IN THE ARRANGEMENT DRAWING SHALL BE COMPLIED.
 3. VALVE BODY MATERIAL : ASTM A217 WC6.
 4. VALVE MUST BE OPEN AT $\Delta P = 16$ bar.
 5. (i) VALVE CHARACTERSTICS : EQUAL PERCENTAGE.
(iii) VALVE CLASS : ASME CLASS 300.
 6. THE ACTUATOR SHALL ALSO BE CAPABLE OF MANUAL OPERATION. PROVISION SHALL BE PROVIDED BY THE VENDOR FOR MANUAL RELEASE OF AIR WHICH GETS TRAPPED IN THE ACTUATOR IN CASE VALVE IS ON "STAYPUT" DURING AIR SUPPLY FAILURE.
 7. AMBIENT TEMPERATURE = 65°C .
 8. MAXIMUM APPLIED GRAVITY 2g.
 9. STRENGTH & LEAK TIGHTNESS TEST : AS PER CLASS IV ANSI/FCI 70-2 (LATEST REVISION).
 10. PERMISSIBLE VELOCITY IN THE PIPE LINE IS 100 m/sec.
 11. MOUNTING FRAME FOR REGULATOR, POSITIONER, AIR LOCK RELAY, AIR VOLUME BOOSTER, AIR FILTER & REGULATOR TO BE SUPPLIED ALONG WITH MAIN SUPPLY BY THE VENDOR.
 12. NOISE LEVEL: 85 db AT A DISTANCE OF 1 MTR.
 13. C_v TEST SHALL BE CARRIED OUT BY THE SUPPLIER FOR THE VALVE & TEST REPORT SHALL BE SUBMITTED FOR BHEL REVIEW. THE C_v TEST CAN BE CARRIED OUT PHYSICALLY ON THE VALVE OR THRU COMPUTER SIMULATION. IN CASE TEST REPORT IS ALREADY AVAILABLE WHICH IS NOT MORE THAN 5 YEARS OLD ON THE DATE OF BID OPENING, THE SAME SHALL BE ACCEPTABLE. FURTHER, IN CASE THE OFFERED VALVE IS ALREADY IN SUCCESSFUL OPERATION USING THE SAME VALVE BODY, SEAT & TRIM COMBINATION, THE SUPPLIER SHALL FURNISH NAME OF PROJECT, DATA SHEET, CROSS-SECTIONAL DRAWING OF THAT VALVE FOR REVIEW IN LIEU OF THE C_v TEST REPORT.
 14. THE VENDOR TO SUPPLY 1 SET OF PACKING & GASKETS AS COMMISSIONING SPARES.
 15. THE VALVE SHALL BE IBR APPROVED.

B. DOCUMENTS TO BE SUBMITTED BY THE SUPPLIER:

B.1 DOCUMENTS TO BE SUBMITTED ALONGWITH THE OFFER:

1. DATA SHEET OF VALVE & ACTUATOR.
2. SIZING CALCULATIONS OF VALVE & ACTUATOR.
3. CROSS-SECTIONAL DRAWING OF VALVE ALONGWITH BILL OF MATERIAL.
4. VALVE CHARACTERISTIC CURVES.
5. GENERAL ARRANGEMENT DRAWING OF VALVE ALONG WITH ACTUATOR INDICATING OVERALL REQUIRED MAINTENANCE SPACE, DETAILS OF WELD ENDS, OVERALL ASSEMBLY WEIGHT & DIRECTION OF FLOW.
6. HOOK-UP DIAGRAM ALONG WITH IT'S FUNCTIONAL WRITE-UP.
7. CATALOGUES AF ALL ACCESSORIES eg. POSITIONER, VOLUME BOOSTER, AIR LOCK RELAY, AIR FILTER & REGULATOR.
8. REQUIRED SUPPLY AIR PRESSURE, SPRING RANGE, TUBING/CONNECTION SIZE.
9. RECOMMENDED QUALITY & QUANTITY OF AIR.
10. LIST OF COMMISSIONING SPARES.
11. PRICED LIST OF RECOMMENDED SPARES FOR FUTURE ORDERING.

C. DOCUMENTS TO BE SUBMITTED IN THE EVENT OF ORDERING:

1. 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 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.
2. 25 HARD COPIES OF O&M MANUAL SHALL BE SUPPLIED BY THE VENDOR. OUT OF THESE, 3 COPIES SHALL BE SENT TO SITE ALONGWITH THE EQUIPMENT & REMAINING 22 COPIES SHALL BE SENT TO BHEL, HARIDWAR WITHIN 12 WEEKS OF PLACEMENT OF P.O.

D. GENERAL REQUIREMENTS:

1. GUARANTEE: GUARANTEE/WARRANTY PERIOD SHALL BE 24 MONTHS FROM THE DATE OF SHIPMENT OR 18 MONTHS FROM THE DATE OF COMMISSIONING WHICHEVER IS EARLIER. IN CASE OF ANY FAILURE OR TROUBLE REPORTED FROM SITE, THE SUPPLIER WOULD DEPUTE THEIR REPRESENTATIVE IMMEDIATELY TO ATTEND THE PROBLEM AND REPLACE THE DEFECTIVE COMPONENT/PARTS IF REQUIRED.
2. PACKING & DISPATCH:
 - (i) THE VALVE SHALL BE PACKED AND LOCKED IN SUCH A WAY, THAT IN GENERAL CASE ANY DAMAGE IS PROHIBITTED.
 - (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.

MAT. CODE: W90313239177

[illegible]

STE-TG ADDENDUM TO 21323929000 (270 MW BHADRADRI PROJECT)

1. Valve flange to flange distance (Shown in proposed arrangement in 21323929000 Sh01) shall be 700 mm to 750 mm to suit the valve layout at site.
2. Supplier to offer the valve & actuator suiting to the input parameters as specified in the 21323929000 Sh01. Supplier to keep at least 10% margin over the required cv while selecting the valve.
3. The valve must be designed keeping in view of the following data:
 - I. Ambient temperature: 4°C to 55°C
 - II. Average relative humidity: 66%
 - III. Max. Earthquake factors horizontal: 0.3g (limit of integrity)
 - IV. max. Earth quake factors vertical: 0.2g (limit of integrity)
4. Gasket material must be provided free from harmful pollution like asbestos and ferrite and should have an extraordinary temperature resistance.
5. 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.
6. Cv test shall be carried out on the offered 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 the same valve as the offered valve.
7. Following tests shall be performed on valve & test reports shall be submitted for BHEL review: -
 - I. Shell strength test as per test P10 of EN12266 part-1 (LATEST EDITION) or equivalent test as per ANSI / ASME standard.
 - II. Shell tightness test as per test P11 of EN12266 part-1 (LATEST EDITION) or equivalent test as per ANSI / ASME standard.
 - III. Seat tightness test as per EN60534-4 (LATEST EDITION) OR ANSI FCI 70-2 (LATEST EDITION) acceptance criteria leakage CLASS-IV.
 - IV. Valve shall be functionally tested to check its design & operational characteristics.
 - V. Vendor to clearly specify (at offer stage) the codes/standards to be used for tests mentioned at clauses above.
 - VI. NDT (RT & UT) shall be performed on valve components as per ASME B16.34.
8. 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.
9. PACKING & DISPATCH:

- I. Valve shall have an arrow permanently fixed on the valve body to indicate the correct direction of flow.
 - II. 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-
 - III. Tag no. and Valve serial no.
 - IV. Body material, size and pressure rating
 - V. Trim material, size characteristics
 - VI. Action on air failure
 - VII. Spring range
 - VIII. Stem travel
 - IX. Valve action, etc.
10. 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.

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)

Check –List for seal steam supply valve (Material code: W90313239177), Drawing. No. 21323929000, Rev. 00

SL No.	BHEL SPECIFICATION REQUIREMENT	Vendor's confirmation/ Remark	Vendor's document no.
1	Valve body material: ASTM A217WC6		
2	Counter Flange material: AS PER ASME B16.5-2003 MAT.- A105		
3	Valve Class: 300		
4	Valve Characteristics: Equal %		
5	Counter flange End connection details: i. Inlet : 168.3X4.78, Butt welded as per fig.4 of ASME B16.25 ii. Outlet : 168.3X4.7, Butt welded as per fig.4 of ASME B16.25		
6	Controllable range of Cv		
7	Hand wheel for manual operation shall be provided. Cast iron not acceptable.		
8	Manual vent valve shall be provided.		
9	Following commissioning spares shall be provided: i. Packing & gaskets 1 set. ii. washers for flange: 1 complete set for each flange connection.		
10	Valve shall be IBR approved.		
11	Testing of valve as per cl. no. 7 of BHEL document "STE-TG ADDENDUM".		
12	Paint as per cl. no. 8 of BHEL document "STE-TG ADDENDUM".		
13	End connection in actuator for air supply: 1" pipe connector (CS, weldable) to be supplied by the vendor		
14	Failure mode: Air failure: stay put, Signal failure: close		
15	Cv test report submission after placement of P.O.		
16	Operating time < 3 sec		
17	Weight of complete assembly of valve along with actuator <300 Kg		
18	Valve leakage class-IV as per ANSI FCI 70-2 (Latest revision)		
19	Function of Actuator: Air to open spring to close		
20	Type of actuator: Spring diaphragm or Piston type		
21	Recommended quality and quantity of air		
22	Required supply air pressure (Max/Min- 10/5 bar g)		
23	Documents submission for BHEL approval within 4 weeks after placement of P.O. as per cl. no. C.1 of BHEL specification.		
24	O & M Manual: Submission of 25 Hard copies (3 copies along with equipment to the site & remaining 22 to BHEL, Hardwar within 12 weeks of placement of P.O.).		

ANNEXURE-C**Seal steam supply valve- Check List for Documents/Information to be furnished along with the offer**

SL. No.	Document/Information details	Vendor's confirmation/ Remark	Vendor's document 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. Cross-sectional drg. of valve and pneumatic actuator alongwith BOM. ii. overall dimensions, iii. required maintenance space, iv. details of weld ends, v. overall assembly weight vi. direction of flow		
4	Valve characteristic curve.		
5	List of commissioning spares.		
6	Hook up diagram along with its functional write up		
7	Detailed catalogue mentioning type of position transmitter position controller, volume booster, air lock relay, air filter and regulator		
8	Priced list of optional spare parts as per applicable BHEL drg. No. 31323900001 for future ordering		

DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017- REVISION
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 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)