

## **TENDER CORRIGENDUM dt 12.02.2025**

GeM Enquiry: **GEM/2025/B/5897283 dt 01.02.2025**

Description of Item: PNEUMATIC GLOBE CONTROL VALVE and its Mandatory spares for 1X660 MW Sagardighi FGD project.

Following changes are made in the enquiry specification.

1. Travel time for both open to close and close to open shall be 15 to 25 seconds.
2. Required body material shall be ASTM A182 F304 or equivalent casting.

All bidders are requested to take care of the above changes while submitting the offer.

**ANNEXURE- 1****CHECK LIST**

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

<b>A</b>	<b>Name and Address of the Supplier</b>		
<b>B</b>	<b>GSTN No. the Supplier (Place of Execution of Contract / Purchase Order)</b>		
<b>C</b>	<b>Details of Contact person for this Tender</b>	Name: Mr./ Ms. Designation: Telephone No: Mobile No: Email ID:	
<b>D</b>	<b>EMD DETAILS</b>		
<b>E</b>	<b>DESCRIPTION</b>	<b>APPLICABILITY (BY BHEL)</b>	<b>ENCLOSED BY BIDDER</b>
i.	Whether <b>Pre - Qualification Criteria</b> is understood and provided proper supporting documents.	Applicable/ <del>Not Applicable</del>	YES / NO
ii.	Whether all pages of the Tender documents including annexures, appendices etc are read and understood	Applicable/ <del>Not Applicable</del>	YES / NO
iii.	Audited Balance Sheet and profit & Loss Account for the last three years	Applicable/ <del>Not Applicable</del>	YES / NO
iv.	Copy of PAN Card & GST registration	Applicable/ <del>Not Applicable</del>	YES / NO
v.	Submission of <b>MSE certificate</b> as specified in Tender	Applicable/ <del>Not Applicable</del>	YES / NO
vi.	<b>Offer forwarding letter</b> / tender submission letter as per Annexure – 2	<del>Applicable/</del> Not Applicable	YES / NO
vii.	Submission of <b>Certificate of No Deviation</b> as per Annexure – 3	Applicable/ <del>Not Applicable</del>	YES / NO
viii.	Declaration regarding <b>Insolvency/ Liquidation/ Bankruptcy Proceedings</b> as per Annexure – 4	Applicable/ <del>Not Applicable</del>	YES / NO
ix.	Declaration by <b>Authorized Signatory</b> as per Annexure – 5	<del>Applicable/</del> Not Applicable	YES / NO
x.	Declaration by <b>Authorized Signatory regarding Authenticity</b> of submitted Documents Annexure – 6	Applicable/ <del>Not Applicable</del>	YES / NO
xi.	Submission of <b>Non-Disclosure Certificate</b> as per Annexure – 7	Applicable/ <del>Not Applicable</del>	YES / NO
xii.	Submission of <b>Integrity Pact</b> as specified in Tender as per Annexure – 8	<del>Applicable/</del> Not Applicable	YES / NO

xiii.	Declaration <b>confirming knowledge about Site Conditions</b> as per Annexure – 9	<del>Applicable/</del> Not Applicable	YES / NO
xiv.	Declaration reg. <b>Related Firms &amp; their areas of Activities</b> as per Annexure – 10	<del>Applicable/</del> <del>Not Applicable</del>	YES / NO
xv.	Declaration for <b>relation in BHEL</b> as per Annexure – 11	<del>Applicable/</del> <del>Not Applicable</del>	YES / NO
xvi.	Declaration reg. <b>minimum local content</b> in line with revised public procurement as per Annexure – 12	<del>Applicable/</del> <del>Not Applicable</del>	YES / NO
xvii.	Declaration regarding <b>compliance to Restrictions under Rule 144 (xi) of GFR 2017</b> as per Annexure – 13	<del>Applicable/</del> Not Applicable	YES / NO
xviii.	<b>Bank Account Details</b> for E-Payment as per Annexure – 14	<del>Applicable/</del> Not Applicable	YES / NO
xix.	<b>Power of Attorney</b> for submission of tender as per Annexure – 15	<del>Applicable/</del> Not Applicable	YES / NO
xx.	<b>Proforma of Bank Guarantee for Earnest Money</b> as per Annexure – 16	<del>Applicable/</del> Not Applicable	YES / NO

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

**DATE :**

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

**Annexure B: Item details: PNEUMATIC GLOBE CONTROL VALVE and its Mandatory spares for Sagardighi FGD project**

SI No	PR NO	PRITM	Material Code	Material Description	Long Text	QTY	UOM	Delivery locations
1	1.39E+08	10	L17311FJ36404001	300NB-PNEUMATIC GLOBE CONTROL VALVE	300NB PNEUMATICALLY OPERATED GLOBE CONTROL VALVE ASSEMBLY WITH ALL REQUIRED ACCESSORIES, FLANGED, AS PER TECHNICAL SPECIFICATION WITH DATASHEET REF: FGD/ PNE:GLV:CONT::01 REV 00 OF TAG NOS: 10HTD02AA901	1	NO	Sagardighi project site
2	1.4E+08	10	L1731SFJ36403001	DIAPHRAGM FOR PNEUMATIC GLOBE CTRL VALVE	PNEUMATIC DIAPHRAGM SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT REQUIRED FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	2	SET	BHEL Trichy stores
3	1.4E+08	20	L1731SFJ36403002	RETAINER RING PNEUMATIC GLOBE CTRL VALVE	RETAINER RING SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT REQUIRED FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	1	SET	BHEL Trichy stores
4	1.4E+08	30	L1731SFJ36403003	SEAL RING FOR PNEUMATIC GLOBE CTRL VALVE	SEAL RING SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT REQUIRED FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	1	SET	BHEL Trichy stores
5	1.4E+08	40	L1731SFJ36403004	GASKET FOR PNEUMATIC GLOBE CTRL VALVE	GASKET SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT REQUIRED FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	2	SET	BHEL Trichy stores
6	1.4E+08	50	L1731SFJ36403005	GLAND PACKING PNEUMATIC GLOBE CTRL VALVE	GLAND PACKING SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT REQUIRED FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	1	SET	BHEL Trichy stores
7	1.4E+08	60	L1731SFJ36403006	SMART POSITIONER FOR PNEU GLOBE CTRL VAL	SMART POSITONOR SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT REQUIRED FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	1	SET	BHEL Trichy stores
8	1.4E+08	70	L1731SFJ36403007	POSITION FEEDBACK TRANSMITTER	POSITION FEEDBACK TRANSMITTER SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001. APPLICABLE IF IT IS NOT INTEGRAL WITH THE SMART POSITIONER.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT REQUIRED FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	1	SET	BHEL Trichy stores
9	1.4E+08	80	L1731SFJ36403008	SEAL KIT FOR THE POSITIONER	SEAL KIT FOR POSITIONER SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT REQUIRED FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	2	SET	BHEL Trichy stores
10	1.4E+08	90	L1731SFJ36403009	ACTUATOR SEAL KIT FOR PNE GLOBE CTRL VAL	ACTUATOR SEAL KIT FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT REQUIRED FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	2	SET	BHEL Trichy stores

**Annexure B: Item details: PNEUMATIC GLOBE CONTROL VALVE and its Mandatory spares for Sagardighi FGD project**

SI No	PR NO	PRITM	Material Code	Material Description	Long Text	QTY	UOM	Delivery locations
11	1.4E+08	100	L1731SFJ36403010	CAGE FOR PNEUMATIC GLOBE CTRL VALVE	CAGE FOR PNEUMATIC GLOBE CTRL VALVE CAGE SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT OF CAGE FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	1	SET	BHEL Trichy stores
12	1.4E+08	110	L1731SFJ36403011	PLUG FOR PNEUMATIC GLOBE CTRL VALVE	PLUG SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT OF PLUG FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	1	SET	BHEL Trichy stores
13	1.4E+08	120	L1731SFJ36403012	STEM FOR PNEUMATIC GLOBE CTRL VALVE	STEM SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT OF STEM FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	1	SET	BHEL Trichy stores
14	1.4E+08	130	L1731SFJ36403013	SEAT FOR PNEUMATIC GLOBE CTRL VALVE	SEAT SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT OF SEAT FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	1	SET	BHEL Trichy stores
15	1.4E+08	140	L1731SFJ36403014	COMPLETE SET OF SOLENOID VALVE	COMPLETE SET OF SOLENOID VALVE SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001. (IF APPLICABLE)  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT REQUIRED FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	1	SET	BHEL Trichy stores
16	1.4E+08	150	L1731SFJ36403015	SOLENOID COIL	SOLENOID COIL SUITABLE FOR PNEUMATIC GLOBE CONTROL VALVE SUPPLIED AGAINST MATERIAL CODE L17311FJ36404001.(IF APPLICABLE)  NOTE : ONE (1) SET MEANS ONE (1) NO COMPLETE REPLACEMENT REQUIRED FOR ONE VALVE.  <u>BIDDER TO FURNISH THE SET DETAILS WITH ITEM DESCRIPTION AND QUANTITY IN NUMBERS.</u>	1	SET	BHEL Trichy stores
				<b>TOTAL</b>		<b>20</b>		

**BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHIRAPPALLI-620 014.**

**Buyer Added Bid Specific Additional Terms & Conditions (ATC)**

**GEM ENQUIRY NO: .....**

**Note:** This Annexure has to be mandatorily filled & signed by the manufacturer (or) mill and submitted along with Technical bid.

***Any deviation to the below mentioned terms shall be stated specifically in the comments column for each term and also in case of acceptance to our terms, it will be construed that the whole term is understood and agreed in totality without any deviation. (If otherwise mentioned).***

SI No	BHEL Requirements	Supplier Comments
01	<p><b>Pre-Qualification Criteria:</b></p> <p>1.1 Technical</p> <p>Supply shall be as per <b>Annexure B - Item details</b></p> <p><b>A ) 300NB PNEUMATICALLY OPERATED GLOBE CONTROL VALVE ASSEMBLY WITH ALL REQUIRED ACCESSORIES, FLANGED, AS PER TECHNICAL SPECIFICATION WITH DATASHEET REF: FGD/ PNE:GLV:CONT::01 REV 00 OF TAG NOS: 10HTD02AA901</b></p> <p><b>ENCLOSURES:</b></p> <p><b>1. TECHNICAL SPECIFICATION WITH DATASHEET REF: FGD/ PNE:GLV:CONT::01 REV 00 FOR 300NB FLANGED PNEUMATICALLY OPERATED GLOBE CONTROL VALVE.</b></p> <p><b>2. TECHNICAL PRE QUALIFICATION REQUIREMENTS - BM/PNE:GLV:CONT/TPQR/01.</b></p> <p><b>3. LIST OF DEVIATIONS OR EXCEPTIONS TO THE SPECIFICATION &amp; ANNEXURES REF: PNE:GLV:CONT/DEV/01</b></p> <p><b>REMARKS:</b></p> <p><b>1. ALL DATA SHEETS, DRAWINGS, CALCULATIONS AND CATALOGUE TO BE SUBMITTED ALONG WITH OFFER.</b></p> <p><b>2. CV TYPE TEST.</b></p> <p><b>2A. CV TYPE TEST SHALL BE CARRIED OUT AS TYPE TEST ON EACH SIZE, TYPE AND DESIGN OF THE VALVES AND THE TEST REPORTS, SHALL BE FURNISHED FOR BHEL'S APPROVAL.</b></p> <p><b>2B. IF TYPE TEST IS CONDUCTED EARLIER ON SIMILAR TYPE AND RATING OF EQUIPMENT NOT EARLIER THAN 5 (FIVE) YEARS FROM THE DATE OF AWARD, CV TYPE TEST IS NOT REQUIRED FOR THIS PROJECT. REPORT SHALL BE SUBMITTED TO BHEL FOR APPROVAL.</b></p> <p><b>Vendor Quality Plan applicable</b></p> <p>1.2 Financial: As per <b>Annexure C (Financial Soundness)</b></p> <p>1.3 Integrity Pact: <b>Not Applicable</b></p> <p>1.4 Bidder must not be admitted under Corporate Insolvency Resolution Process or Liquidation as on date, by NCLT or any adjudicating authority/authorities, and shall submit undertaking (Annexure-4) to this effect.</p> <p>1.5 Customer Approval : <b>Applicable</b></p> <p><b>Explanatory Notes for the PQR:</b></p> <p>i. 'Supplied' in <b>PQR – 1.1</b> means, bidder should have delivered the <u>tendered item</u>. Bidder shall submit the relevant documents against the above PQRs inclusive of Purchase order (wherein PO no., date, etc. is legible) along with proof of supply (i.e. - Completion Certificate/ Copy of Invoices / LR Copies/ Store Receipt Vouchers/ Payment Advice etc.) in the respective attachments in their offer in support of PQR. The "Contract" referred in Technical PQR may be Rate Contract/ Framework Agreement/ Purchase Order/ Work Order.</p>	

	<p>ii. Bidder to submit Audited Balance Sheet and Profit and Loss Account for the respective years as indicated against Financial Turnover <b>PQR – 1.2</b> above along with all annexures.</p> <p>iii. In case of audited Financial Statements have not been submitted for all the three years as indicated against Financial Turnover PQR above, then the applicable audited statements submitted by the bidders against the requisite three years, will be averaged for three years i.e. total divided by three.</p> <p>iv. If Financial Statements are not required to be audited statutorily, then instead of audited Financial Statements, Financial Statements are required to be certified by Chartered Accountant.</p> <p>v. Credentials furnished by the bidder against "PRE-QUALIFYING CRITERIA" shall be verified from the issuing authority for its authenticity. In case, any credential (s) is/are found to be spurious, offer of the bidder is liable to be rejected. BHEL reserves the right to initiate any further action as per extant guidelines for Suspension of Business Dealings as applicable in BHEL.</p> <p>vi. Price Bids of only those bidders shall be opened who stand qualified after compliance of <b>QR – 1.1 to 1.5</b></p>	
02	<p><b>Scope of Supply:</b></p> <p>Supply of <b>PNEUMATIC GLOBE CONTROL VALVE and its Mandatory spares</b> to <b>Various project locations</b> as per <b>Annexure B</b> on F.O.R. Destination Basis.</p> <p>Unloading of materials at Destination / Site shall be in BHEL's scope.</p>	
03	<p><b>PRICE BASIS:</b></p> <p>Price in INR should be quoted for <b>F.O.R. DESTINATION SITE delivery to Various project locations as per Annexure B</b></p> <p>GSTIN : 33AAACB4146P2ZL</p>	
04	<p><b>TAXES &amp; DUTIES:</b></p> <p><b>4.1</b> The Supplier/Vendor shall pay all (save the specific exclusions as enumerated in this clause) taxes, fees, license, charges, deposits, duties, tools, royalty, commissions, other charges, etc. which may be levied on the input goods &amp; services consumed and output goods &amp; services delivered in course of his operations in executing the contract. In case BHEL is forced to pay any of such taxes/duties, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit along with the applicable overheads @5% and interest on the total value (i.e. amount paid by BHEL + overhead).</p> <p>However, provisions regarding <b>GST</b> on output supply (goods/service) and TDS/TCS as per Income Tax Act shall be as per following clauses.</p> <p><b>4.2 GST (Goods and Services Tax)</b></p> <p><b>4.2.1</b> GST as applicable on output supply (goods/services) are excluded from Supplier/Vendor's scope; therefore, contractor's price/rates shall be <b>exclusive</b> of GST. Reimbursement of GST is subject to compliance of following terms and conditions. BHEL shall have the right to deny payment of GST and to recover any loss to BHEL on account of tax, interest, penalty etc. for non-compliance of any of the following condition.</p> <p><b>4.2.2</b> The admissibility of GST, taxes and duties referred in this chapter or elsewhere in the contract shall be limited to direct transactions between BHEL &amp; its Supplier/Vendor. BHEL shall not consider GST on any transaction other than the direct transaction between BHEL &amp; its Supplier/Vendor.</p> <p><b>4.2.3</b> Supplier/Vendor shall obtain prior written consent of BHEL before billing the amount towards such taxes. Where the GST laws permit more than one option or methodology for discharging the liability of tax/levy/duty, BHEL shall have the right to adopt the appropriate one considering the amount of tax liability on BHEL/Client as well as procedural simplicity with regard to assessment of the liability. The option chosen by BHEL shall be binding on the Contractor for discharging the obligation of BHEL in respect of the tax liability to the Supplier/Vendor.</p> <p><b>4.2.4</b> Supplier/Vendor has to submit GST registration certificate of the concerned state. Supplier/Vendor also needs to ensure that the submitted GST registration certificate should be in active status during the entire contract period.</p> <p><b>4.2.5</b> Supplier/Vendor has to issue Invoice/Debit Note/Credit Note indicating HSN/SAC code, Description, Value, Rate, applicable tax and other particulars in compliance with the provisions of relevant GST Act and Rules made thereunder.</p> <p><b>4.2.6</b> Supplier/Vendor has to submit GST compliant invoice within the due date of invoice as per GST Law. In case of delay, BHEL reserves the right of denial of GST payment if there occurs any hardship to BHEL in claiming the input thereof. In case of goods, Supplier/Vendor has to provide scan copy of invoice &amp; GR/LR/RR</p>	

to BHEL before movement of goods starts to enable BHEL to meet its GST related compliances. Special care should be taken in case of month end transactions.

**4.2.7** Supplier/Vendor has to ensure that invoice in respect of such services which have been provided/completed on or before end of the month should not bear the date later than last working day of the month in which services are performed.

**4.2.8** Subject to other provisions of the contract, GST amount claimed in the invoice shall be released on fulfilment of all the following conditions by the Supplier/Vendor: -

- a) Supply of goods and/or services have been received by BHEL.
- b) Original Tax Invoice has been submitted to BHEL.
- c) Supplier/Vendor has submitted all the documents required for processing of bill as per contract/purchase order/ work order.
- d) In cases where e-invoicing provision is applicable, Supplier/Vendor is required to submit invoice in compliance with e-invoicing provisions of GST Act and Rules made thereunder.
- e) Supplier/Vendor has filed all the relevant GST return (e.g. GSTR-1, GSTR-3B, etc.) pertaining to the invoice submitted and submit the proof of such return along with immediate subsequent invoice. In case of final invoice/ bill, contractor has to submit proof of such return within fifteen days from the due date of relevant return.
- f) Respective invoice has appeared in BHEL's GSTR - 2A for the month corresponding to the month of invoice and in GSTR-2B of the month in which such invoices has been reported by the contractor along with status of ITC availability as "YES" in GSTR-2B. Alternatively, BG of appropriate value may be furnished which shall be valid at least one month beyond the due date of confirmation of relevant payment of GST on GSTN portal or sufficient security is available to adjust the financial impact in case of any default by the Supplier/Vendor.
- g) Supplier/Vendor has to submit an undertaking confirming the payment of all due GST in respect of invoices pertaining to BHEL.

**4.2.9** Any financial loss arises to BHEL on account of failure or delay in submission of any document as per contract/purchase order/work order at the time of submission of Tax invoice to BHEL, shall be deducted from Supplier/Vendor's bill or otherwise as deemed fit.

**4.2.10** TDS as applicable under GST law shall be deducted from Supplier/Vendor's bill.

**4.2.11** Supplier/Vendor shall comply with the provisions of e-way bill wherever applicable. Further wherever provisions of GST Act permits, all the e-way bills, road permits etc. required for transportation of goods needs to be arranged by the contractor.

**4.2.12** Supplier/Vendor shall be solely responsible for discharging his GST liability according to the provisions of GST Law and BHEL will not entertain any claim of GST/interest/penalty or any other liability on account of failure of Supplier/Vendor in complying the provisions of GST Law or discharging the GST liability in a manner laid down thereunder.

**4.2.13** In case declaration of any invoice is delayed by the vendor in his GST return or any invoice is subsequently amended/alterd/deleted on GSTN portal which results in any adverse financial implication on BHEL, the financial impact thereof including interest/penalty shall be recovered from the Supplier/Vendor's due payment.

**4.2.14** Any denial of input credit to BHEL or arising of any tax liability on BHEL due to non-compliance of GST Law by the Supplier/Vendor in any manner, will be recovered along with liability on account of interest and penalty (if any) from the payments due to the Supplier/Vendor.

**4.2.15** In the event of any ambiguity in GST law with respect to availability of input credit of GST charged on the invoice raised by the contractor or with respect to any other matter having impact on BHEL, BHEL's decision shall be final and binding on the Supplier/Vendor.

**4.2.16 Variation in Taxes & Duties:**

Any upward variation in GST shall be considered for reimbursement provided supply of goods and services are made within schedule date stipulated in the contract or approved extended schedule for the reason solely attributable to BHEL. However downward variation shall be subject to adjustment as per actual GST applicability.



	<p>In case the Government imposes any new levy/tax on the output service/goods after price bid opening, the same shall be reimbursed by BHEL at actual. The reimbursement under this clause is restricted to the direct transaction between BHEL and its Supplier/Vendor only and within the contractual delivery period only.</p> <p>In case any new tax/levy/duty etc. becomes applicable after the date of Bidder's offer but before opening of the price Bid, the Bidder/ Supplier/Vendor must convey its impact on his price duly substantiated by documentary evidence in support of the same before opening of price bid. Claim for any such impact after opening the price bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.</p> <p><b>4.3 Income Tax:</b></p> <p>TDS/TCS as applicable under Income Tax Act, 1961 or rules made thereunder shall be deducted/collected from Supplier/Vendor's bill.</p> <p><b>4.4 Supplier HSN Code &amp; Applicable GST % (To be filled by Supplier)</b> _____</p>	
<b>05</b>	<p><b>MATERIAL DISPATCH CLEARANCE CERTIFICATE (MDCC):</b></p> <p>MDCC shall be issued by BHEL. No material shall be dispatched by supplier unless and until Material Dispatch Clearance Certificate (MDCC) issued by BHEL Site. 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>	
<b>06</b>	<p><b>INSPECTION / INSPECTION &amp; TESTING AT SUPPLIERS WORKS:</b></p> <p>Inspection and testing requirements are to be carried out as per the specification and BHEL/Customer approved Drawing (All documents shall be submitted within 15 days from the date of PO for our approval), Technical spec &amp; QP and all test certificates are to be submitted in complete set.</p> <p>BHEL reserves the right to inspect the material during manufacturing and also to get tested the material under dispatch from third party. The test results of third party test shall be final and binding on the Supplier/Vendor.</p> <p>BHEL will reserve the right to inspect/test the material during/after manufacturing at suppliers' works, and/or at BHEL Site. In case of rejection at any stage, Supplier/Vendor shall be liable to replace the materials at his own cost.</p>	
<b>07</b>	<p><b>DELIVERY:</b></p> <p><b>Delivery shall be as follows</b></p> <p><b>120 days from manufacturing clearance</b></p> <p><b>Package Details as per Annexure B .</b></p> <p>(including Manufacturing, Inspection, Packing, Forwarding and delivery at project site/Trichy stores).</p> <p>Note: Delivery period mentioned elsewhere in the GeM Bid document shall be ignored and the delivery period shall be as per this clause.</p> <p><b>NOTE:</b></p> <p>a) 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.</p> <p>b) In case BHEL increase the quantity during currency of the contract in line with quantity variation clause (sl.no. .... of GeM bid), delivery extension shall be given for supply of these additional quantity.</p>	
<b>08</b>	<p><b>TRANSIT INSURANCE:</b></p> <p>Transit Insurance of material is in <b>BHEL scope</b>. BHEL shall insure the material at their cost for transportation.</p>	

09	<p><b>PAYMENT TERMS:</b></p> <p><b>Payment term shall be as below</b></p> <p><b>For Direct to Site despatch</b></p> <p>1.For Non MSME suppliers, Payment term is 100% direct EFT payment after 90 days from the date of Site Acknowledgement (Against submission of GST invoice, Packing List, GeM invoice, copy of Site Acknowledged LR).</p> <p>2.For MSE suppliers, Payment term is 100% direct EFT payment on 45th day from the date of Site Acknowledgement (Against submission of GST invoice, Packing List, GeM invoice, copy of Site Acknowledged LR).</p> <p>3.For Medium Suppliers, Payment term is 100% direct EFT payment after 60 days from the date of Site Acknowledgement (Against submission of GST invoice, Packing List, GeM invoice, copy of Site Acknowledged LR).</p> <p><b>For BHEL Trichy stores Despatch</b></p> <p>1. For Non MSME suppliers, Payment term is 100% direct EFT payment after 90 days from the Material Acceptance Date (Against submission of GST invoice, GeM invoice, LR copy, Last Movement e-Way Bill).</p> <p>2. For MSE suppliers, Payment term is 100% direct EFT payment on 45th day from the Material Acceptance Date (Against submission of GST invoice, GeM invoice, LR copy, Last Movement e-Way Bill).</p> <p>3. For Medium Suppliers, Payment term is 100% direct EFT payment after 60 days from the Material Acceptance Date (Against submission of GST invoice, GeM invoice, LR copy, Last Movement e-Way Bill).</p> <p>However, GST amount shall be reimbursed in line with compliance to Cl. No. 4 (Taxes &amp; Duties) above.</p> <p><b>b) NO INTEREST PAYABLE TO CONTRACTOR</b></p> <p>No interest shall be payable on the security deposit or any other money due to the Supplier.</p>	
10	<p><b>DOCUMENTS REQUIRED FOR BILL PROCESSING:</b></p> <p>The following documents are required to be sent with Material Dispatch/Billing Documents:</p> <ul style="list-style-type: none"> <li>• Original Tax Invoice (As per Cl. No. 4 above).</li> <li>• Copy of LR</li> <li>• Warranty Certificate</li> <li>• Duplicate for Transporter</li> <li>• Original Consignee copy of LR</li> <li>• Site acknowledged copy of LR</li> <li>• E Way bill</li> <li>• Bank Guarantee</li> <li>• GeM Invoice</li> </ul>	
11	<p><b>BANK DETAILS FOR EMD &amp; PERFORMANCE SECURITY SUBMISSION:</b></p> <p>For Electronic Fund Transfer the details are as below:</p> <p>a) Name of the Beneficiary: Bharat Heavy Electricals Limited</p> <p>b) Bank Particulars :</p> <p>Name of the Company : BHARAT HEAVY ELECTRICALS LTD  Address of the company : TRICHY  Name of the bank :STATE BANK OF INDIA  Bank : HEAVY ELECTRICALS,  KAILASAPURAM BRANCH</p> <p>City : TRICHY</p>	

	Branch code :01363 Account Number : 10891588977 Account type :CC IFSC code - :SBIN0001363 MICR code : 620002004	
12	<p><b>12 EARNEST MONEY DEPOSIT:</b> <del>Applicable /</del> Not Applicable.</p> <p><b>12.1</b> Every tender must be accompanied by the prescribed amount of Earnest Money Deposit (EMD) in the manner described herein.</p> <ul style="list-style-type: none"> <li>i <del>EMD shall be furnished before tender opening / along with the offer in full as per the amount indicated in the NIT.</del></li> <li>ii The EMD up to an amount of <b>Rs. ....</b> is to be paid only in the following forms: <ul style="list-style-type: none"> <li>a) Electronic Fund Transfer credited in BHEL account (before tender opening).</li> <li>b) Banker's cheque/ Pay order/ Demand draft, in favour of 'Bharat Heavy Electricals Limited' and payable at Regional HQ issuing the tender (along with offer).</li> <li>c) Fixed Deposit Receipt (FDR) issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL marking lien in favour of BHEL) (along with offer). The Fixed Deposit in such cases shall be valid for a period of 45 (forty-five) days beyond the final bid validity period.</li> <li>d) Bank Guarantee from any of the Scheduled Banks. In such cases shall be valid for a period of 45 (forty-five) days beyond the final bid validity period.</li> <li>e) <b>Insurance Surety Bonds.</b> In case the EMD is more than Rs. Two lakh and in case of foreign bidders, it may be in the form of a bank guarantee (in equivalent Foreign Exchange amount, in case of foreign bidders) issued/ confirmed from any of the scheduled commercial bank in India in the prescribed format. The EMD shall remain valid for a period of 45 (forty-five) days beyond the final bid validity period.</li> </ul> </li> <li>iii No other form of EMD remittance shall be acceptable to BHEL.</li> </ul> <p><b>12.2</b> EMD by the Bidder will be forfeited as per NIT conditions, if:</p> <ul style="list-style-type: none"> <li>i. <del>The bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required performance security within the specified period mentioned in the Tender.</del></li> <li>ii. <del>EMD by the Bidder shall be withheld in case any action on the tenderer is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and shall be forfeited in case of suspension</del></li> </ul> <p><b>12.3</b> <del>Subject to Clause 12.2 above, EMD of the unsuccessful bidders shall be returned at the earliest after expiry of the final bid validity period and latest by the 30th day after the award of the contract. However, in case of two packet or two stage bidding, EMD of unsuccessful bidders during first stage i.e., technical evaluation etc. shall be returned within 30 days of declaration of result of first stage i.e. technical evaluation etc.</del></p> <p><b>12.4</b> EMD of successful Bidder shall be refunded on conclusion of the order/ receipt of a performance security as mentioned in NIT.</p> <p><b>12.5</b> <del>EMD shall not carry any interest.</del></p> <p><b>12.6</b> MSE / KVIC / ACASH / WDO / Colr Board / TRIFED / Kendriya Bhandar / Turnover above 500 Cr / BIS License holders / Central PSU / State PSU / Startups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT) shall be exempted from payment of EMD.</p>	
13	<p><b>13 PERFORMANCE SECURITY:</b> Applicable / Not Applicable</p> <p><b>13.1</b> <del>Successful bidder awarded the contract should deposit 5 % of the contract value as performance security towards fulfilment of all contractual obligations, including warranty obligations.</del></p> <p><b>13.2</b> <del>Performance Security is to be furnished within 14 days after issuance of Contract/PO and should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the Supplier/Vendor, including warranty obligations.</del></p> <p><b>13.3 Modes of deposit:</b></p> <ul style="list-style-type: none"> <li>a) Performance security may be furnished in the following forms:</li> </ul>	

	<p>i. <del>Local cheques of Scheduled Banks (subject to realization)/ Pay Order/Demand Draft/ Electronic Fund Transfer in favour of 'Bharat Heavy Electricals Limited' and payable at Regional HQ</del></p> <p>ii. <del>Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee should be in the prescribed format of BHEL.</del></p> <p>iii. <del>Fixed Deposit Receipt (FDR) issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).</del></p> <p>iv. <del>Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL).</del></p> <p>v. <del>Insurance Surety Bond.</del></p> <p><del>Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.</del></p> <p><del>b) In case of GTE tenders, the performance security should be in the same currency as the contract and must conform to Uniform Rules for Demand Guarantees (URDG 758) an international convention regulating international securities.</del></p> <p><del><b>13.4</b> The performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the Supplier/Vendor as provided herein or elsewhere in the Contract/PO.</del></p> <p><del><b>13.5</b> Performance Security shall be refunded to the Supplier/Vendor without interest, after the Supplier/Vendor duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract.</del></p> <p><del><b>13.6</b> The Performance Security shall not carry any interest.</del></p> <p><del><b>13.7</b> There is no exemption of Performance security deposit submission for MSE Vendors.</del></p>	
14	<p><b>BREACH OF CONTRACT, REMEDIES AND TERMINATION:</b></p> <p><b>14.1</b> The following shall amount to breach of contract:</p> <ol style="list-style-type: none"> <li>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.</li> <li>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</li> <li>III. The Supplier/Vendor delivers equipment/ material not of the contracted quality.</li> <li>IV. The Supplier/Vendor fails to replace the defective equipment/ material/ component as per guarantee clause.</li> <li>V. Withdrawal from or abandonment of the work by the Supplier/Vendor before completion as per contract.</li> <li>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.</li> <li>VII. Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol> <p><b>Note-</b> 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>	

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.

#### **14.2 Remedies in case of Breach of Contract.**

- i. Wherein the period as stipulated in the notice issued under clause 14.1 has expired and Supplier/Vendor has failed to remedy the breach, BHEL will have the right to terminate the contract on the ground of "Breach of Contract" without any further notice to contractor.
- ii. Upon termination of contract, BHEL shall be entitled to recover an amount equivalent to 10% of the Contract Value for the damages on account of breach of contract committed by the Supplier/Vendor. This amount shall be recovered by way of encashing the security instruments like performance bank guarantee etc available with BHEL against the said contract. In case the value of the security instruments available is less than 10% of the contract value, the balance amount shall be recovered from other financial remedies (i.e. available bills of the Supplier/Vendor, retention amount, from the money due to the Supplier/Vendor etc. with BHEL) or the other legal remedies shall be pursued.
- iii. wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10% of the contract value or more, such security instruments to the extent of 10% contract value will be encashed. In case no security instruments are available or the value of the security instruments available is less than 10% of the contract value, the 10% of the contract value or the balance amount, as the case may be, will be recovered in all or any of the following manners:
- iv. In case the amount recovered under sub clause (a) above is not sufficient to fulfil the amount recoverable then; a demand notice to deposit the balance amount within 30 days shall be issued to Supplier/Vendor.
- v. If Supplier/Vendor fails to deposit the balance amount within the period as prescribed in demand notice, following action shall be taken for recovery of the balance amount:
  - a) from dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract.
  - b) If it is not possible to recover the dues available from the same contract or dues are insufficient to meet the recoverable amount, balance amount shall be recovered from any money(s) payable to Supplier/Vendor under any contract with other Units of BHEL including recovery from security deposits or any other deposit available in the form of security instruments of any kind against Security deposit or EMD.
- vi. In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier/Vendor.
- vii. It is an agreed term of contract that this amount shall be a genuine pre-estimate of damages that BHEL would incur in completion of balance contractual obligation of the contract through any 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.

#### **LD against delay in executed supply in case of Termination of Contract:**

LD against delay in executed supply shall be calculated in line with LD clause no. 18.0 below, for the delay attributable to Supplier/Vendor. For limiting the maximum value of LD, contract value shall be taken as Executed Value of supply till termination of contract.

Method for calculation of "LD against delay in executed supply in case of termination of contract" is given below.

- i. Let the time period from scheduled date of start of supply till termination of contract excluding the period of Hold (if any) not attributable to contractor = T1

	<div><div><div>ii.</div><div>Let the value of executed supply till the time of termination of contract= X</div></div><div><div>iii.</div><div>Let the Total Executable Value of supply for which inputs/fronTS were made available to Supplier/Vendor and were planned for execution till termination of contract = Y</div></div><div><div>iv.</div><div>Delay in executed supply attributable to Supplier/Vendor i.e. <math>T2=[1-(X/Y)] \times T1</math></div></div><div><div>v.</div><div>LD shall be calculated in line with LD clause (clause 18.0) of the Contract for the delay attributable to Supplier/Vendor taking "X" as Contract Value and "T2" as period of delay attributable to Supplier/Vendor.</div></div></div>																
15	<div><div><div><div>BILL TO ADDRESS:</div><div>BHARAT HEAVY ELECTRICALS LIMITED HIGH PRESSURE BOILER PLANT,TIRUCHIRAPALLI - 620 014 TAMIL NADU - INDIA. GST: 33AAACB4146P2ZL</div></div><div><div>SHIP TO ADDRESS:</div><div>To be intimated Later</div></div></div></div>																
16	<div><div><div><div>GUARANTEE/WARRANTY:</div><div>Guarantee period for supply of materials covered in the enquiry shall be for a period of 18 months from the date of supply (calendar months from the date of last dispatch) or 12 months from the date of commissioning, whichever is earlier.</div></div><div><div>No Deviation is permitted. If still vendor offered any deviation on the Guarantee / warranty period, it may lead to rejection of offer.</div></div></div></div>																
17	<div><div><div><div>MICRO AND SMALL ENTERPRISES (MSE):</div><div>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.</div></div><div><table><tr><td>Type under MSE</td><td>UDYAM No</td><td>SC/ST Owned</td><td>Women Owned</td><td>Others (Excluding SC/ST/Women)</td></tr><tr><td>Micro</td><td></td><td></td><td></td><td></td></tr><tr><td>Small</td><td></td><td></td><td></td><td></td></tr></table></div><div><div>Note: If the bidder does not furnish the above, offer shall be processed construing that the bidder is not falling under MSE category.</div><div><div>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.</div></div></div></div></div>	Type under MSE	UDYAM No	SC/ST Owned	Women Owned	Others (Excluding SC/ST/Women)	Micro					Small					
Type under MSE	UDYAM No	SC/ST Owned	Women Owned	Others (Excluding SC/ST/Women)													
Micro																	
Small																	
18	<div><div><div><div>LIQUIDATED DAMAGE:</div><div>Liquidated Damages, wherever referred under this Tender/Agreement, shall mean and refer to the damages, not in the nature of penalty, which the contractor agrees to pay in the event of delay in delivery of supplies, breach of contract etc. as the case may be. Liquidated Damages leviable upon the Supplier/Vendor is a sum which is agreed by the parties as a reasonable and genuine pre-estimate of damages which will be suffered by BHEL on account of delay/breach on the part of the Supplier/Vendor.</div></div><div><div>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/PO, the Buyer/BHEL 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.</div><div>LD shall be reckoned from the Contract delivery date to material receipt date.</div><div>Material receipt date means the following</div></div></div></div>																

	Direct to Site (DTS)- Site Acknowledgement date Dispatch to BHEL Trichy Stores- Vehicle Entry date													
19	<p><b>INTEGRITY PACT (IP): Applicable / Not Applicable</b></p> <p><del>a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Supplier/Vendor are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.</del></p> <table border="1"> <tr> <th>Sl No</th><th>IEM</th><th>E-Mail</th></tr> <tr> <td>1</td><td>Shri Otem Dai, IAS (Retd.)</td><td>iem1@bhel.in</td></tr> <tr> <td>2</td><td>Shri Bishwamitra Pandey, IRAS (Retd.)</td><td>iem2@bhel.in</td></tr> <tr> <td>3</td><td>Shri Mukesh Mittal, IRS (Retd.)</td><td>iem3@bhel.in</td></tr> </table> <p><del>b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.</del></p> <p><del>c) Please refer Section 8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.</del></p> <p><b>Note:</b> <del>No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are as per Clause no. 21 below.</del></p>	Sl No	IEM	E-Mail	1	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in	2	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in	3	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in	
Sl No	IEM	E-Mail												
1	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in												
2	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in												
3	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in												
20	<p><b>PREFERENCE TO MAKE IN INDIA:</b></p> <p>For this procurement, the local content to categorize a Supplier/Vendor as a Class I local supplier/ Class II local Supplier/Non-Local Supplier and purchase preferences to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the GeM Bid, the same shall be applicable even if issued after issue of this GeM Bid, but before opening of Part-II bids against this GeM Bid.</p> <p><b>23.1 Compliance to Restrictions under Rule 144 (xi) of GFR 2017:</b></p> <p>I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. The Competent Authority for the purpose of this Clause shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).</p> <p>II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.</p> <p>III. "Bidder from a country which shares a land border with India" for the purpose of this Clause means: -</p> <ol style="list-style-type: none"> <li>An entity incorporated established or registered in such a country; or</li> <li>A subsidiary of an entity incorporated established or registered in such a country; or</li> <li>An entity substantially controlled through entities incorporated, established or registered in such a country; or</li> <li>An entity whose beneficial owner is situated in such a country; or</li> <li>An Indian (or other) agent of such an entity; or</li> <li>A natural person who is a citizen of such a country; or</li> <li>A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.</li> </ol>													



	<p>IV. The beneficial owner for the purpose of (III) above will be as under:</p> <ol style="list-style-type: none"> <li>In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.</li> </ol> <p>Explanation</p> <ol style="list-style-type: none"> <li>“Controlling ownership interest” means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company.</li> <li>“Control” shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements.</li> </ol> <ol style="list-style-type: none"> <li>In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership.</li> <li>In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person has ownership of or entitlement to more than fifteen percent of the property or capital or profits of the such association or body of individuals.</li> <li>Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;</li> <li>In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership. <ol style="list-style-type: none"> <li>The bidder shall provide undertaking for their compliance to this Clause, in the format provided in Annexure-13.</li> <li>Registration of the bidder with Competent Authority should be valid at the time of submission of bids and at the time of acceptance of the bids</li> </ol> </li> </ol>	
21	<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 Engineer for amicable resolution by the parties. Designated Engineer (to be nominated by BHEL for settlement of disputes arising out of the contract) 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.</p> <p>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 Clause 21.1</p> <p><b>21.1 Conciliation:</b></p> <p>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 <a href="http://www.bhel.com">www.bhel.com</a>)).</p> <p><b>Note:</b> Ministry of Finance has issued OM reference No. 1/2/24 dated 03.06.2024 regarding “Guidelines for Arbitration and Mediation in Contracts of Domestic Public Procurement. In the said OM it has been recommended that Government departments/ Entities/agencies are to encourage mediation under the</p>	



Mediation Act, 2023. The said Act has not yet been notified by the Government. Therefore, the clause "Settlement of Disputes" shall be modified accordingly as and when the Mediation Act 2023 gets notified.

## **21.2 ARBITRATION:**

21.2.1 Except as provided elsewhere in this Contract, in case Parties are unable to reach amicable settlement (whether by Conciliation to be conducted as provided in Clause 14.1 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 **Madras High Court, Arbitration Centre (MHCAC)** and such dispute to be adjudicated by Sole Arbitrator appointed in accordance with the Rules of said Arbitral Institution.

21.2.2 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 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.

21.2.3 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 Institution- **Madras High Court, Arbitration Centre (MHCAC)**- 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 **Madras High Court, Arbitration Centre (MHCAC)**- 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.

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

21.2.5 The Arbitration proceedings shall be in English language and the seat of Arbitration shall be **Trichy**.

21.2.6 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 **Trichy**.

21.2.7 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.

21.2.8 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.

21.2.9 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.

21.2.10 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 14.2.9. 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.

**21.3 In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:**

	In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/ Port Trusts inter se and also between CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD (Administrative Mechanism for Resolution)	
<b>22</b>	<p><b>JURISDICTION</b></p> <p>Subject to clause 21 of this contract, the Civil Court having original Civil Jurisdiction at Tiruchirappalli, Tamilnadu shall alone have exclusive jurisdiction in regard to all matters in respect of the Contract.</p> <p><b>GOVERNING LAWS</b></p> <p>The contract shall be governed by the Law for the time being in force in the Republic of India.</p>	
<b>23</b>	<p><b>FORCE MAJEURE</b></p> <p>23.1 "Force Majeure" shall mean circumstance which is:</p> <ol style="list-style-type: none"> <li>beyond control of either of the parties to contract,</li> <li>either of the parties could not reasonably have provided against the event before entering into the contract,</li> <li>having arisen, either of the parties could not reasonably have avoided or overcome, and</li> <li>not substantially attributable to either of the parties and Prevents the performance of the contract, such circumstances include but shall not be limited to: <ol style="list-style-type: none"> <li>War, hostilities, invasion, act of foreign enemies.</li> <li>Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war.</li> <li>Riot, commotion or disorder by persons other than the contractor's personnel and other employees of the contractor and sub-contractors.</li> <li>Strike or lockout not solely involving the contractor's personnel and other employees of the contractor and sub-contractors.</li> <li>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.</li> <li>Natural catastrophes such as earthquake, tsunami, volcanic activity, hurricane or typhoon, flood, fire, cyclones etc.</li> <li>Epidemic, pandemic etc.</li> </ol> </li> </ol> <p>23.2 The following events are explicitly excluded from Force Majeure and are solely the responsibilities of the non-performing party: a) any strike, work-to-rule action, go-slow or similar labour difficulty (b) late delivery of equipment or material (unless caused by Force Majeure event) and (c) economic hardship.</p> <p>23.3 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>23.4 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>23.5 Delay or non-performance by either party hereto caused by the occurrence of any event of Force Majeure shall not</p> <ol style="list-style-type: none"> <li>Constitute a default or breach of the Contract.</li> <li>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.</li> </ol> <p>23.6 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>	
<b>24</b>	<p><b>Non-Disclosure Agreement:</b></p> <p>The bidders shall enter into the Non-disclosure agreement separately. (Annexure 7 attached).</p>	

25	<b>Cartel Formation</b>  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.							
26	<b>Fraud Prevention Policy</b> Bidder along with its associate /collaborators /sub-contractors /sub-vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <a href="http://www.bhel.com">http://www.bhel.com</a> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.							
27	<b>Suspension of Business Dealings with Suppliers / Contractors:</b> 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 website <a href="http://www.bhel.com">www.bhel.com</a> .  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> .							
28	<div>Bid should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else bid shall be liable for rejection. In the event of any Technical or Commercial queries, the same may please be addressed to the following BHEL concerned before Part I opening-</div> <table><tr><td>Akhil K Das (Manager/MM/BOI)</td><td>M Ramya (Senior Manager/MM/BOI)</td></tr><tr><td>Email : <a href="mailto:akhildas@bhel.in">akhildas@bhel.in</a></td><td>Email: <a href="mailto:mramya@bhel.in">mramya@bhel.in</a></td></tr><tr><td>Phone: 04312574553</td><td>Phone: 04312571265</td></tr></table>	Akhil K Das (Manager/MM/BOI)	M Ramya (Senior Manager/MM/BOI)	Email : <a href="mailto:akhildas@bhel.in">akhildas@bhel.in</a>	Email: <a href="mailto:mramya@bhel.in">mramya@bhel.in</a>	Phone: 04312574553	Phone: 04312571265	
Akhil K Das (Manager/MM/BOI)	M Ramya (Senior Manager/MM/BOI)							
Email : <a href="mailto:akhildas@bhel.in">akhildas@bhel.in</a>	Email: <a href="mailto:mramya@bhel.in">mramya@bhel.in</a>							
Phone: 04312574553	Phone: 04312571265							
29	<b>Order of Precedence:</b> In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:  a. Amendments/Clarifications/Corrigenda/Errata etc. issued in respect of the tender documents by BHEL. b. Buyer Added Bid Specific ATC c. GeM Bid Technical Conditions of Contract (TCC) d. GeM GTC							
30	<b>Note:</b>  1. In the event of our customer order covering this tender being cancelled /placed on hold /otherwise modified, BHEL would be constrained to accordingly cancel / hold / modify the tender at any stage of execution. 2. BHEL may negotiate the L1 rate, if not meeting our budget / estimated cost. BHEL may re-float the tender opened, if L1 price is not acceptable to BHEL even after negotiation. Any deviation from the conditions specified in TECHNO-COMMERCIAL TERMS AND CONDITIONS - Annexure-A, will lead to rejection of offer. 3. Any change in applicable rates of Tax or any other statutory levies (Direct / Indirect) or any new introduction of any levy by means of statute and its corresponding liability for the deliveries beyond the agreed delivery date for reasons not attributable to BHEL will be to vendors account. BHEL will not reimburse the same and any subsequent claim in this respect will be summarily rejected. 4. BHEL reserves its right to reject an offer due to unsatisfactory past performance by the respective Vendor in the execution of any contract to any BHEL project / Unit. 5. The offers of the bidders who are under suspension and also the offers of the bidders, who engage the services of the banned firms /principal/agents, shall be rejected. The list of banned firms is available on BHEL web site <a href="http://www.bhel.com">www.bhel.com</a> .							

	6. Recovery / deduction as applicable as per Direct and Indirect taxes as notified by Govt. Of India from time to time will be made and information/certificate for such deduction/recoveries shall be provided by BHEL to the vendor.	
31	<b>Enclosure:</b> Annexure-1: Check List. <del>Annexure-2: Offer forwarding letter / tender submission letter</del> Annexure-3: No Deviation Certificate Annexure-4: Declaration regarding Insolvency/ Liquidation/ Bankruptcy Proceedings <del>Annexure-5: Declaration by Authorized Signatory</del> Annexure-6: Declaration by Authorized Signatory regarding Authenticity of submitted Documents Annexure-7: Non-Disclosure Certificate <del>Annexure-8: Integrity Pact</del> <del>Annexure-9: Declaration confirming knowledge about Site Conditions</del> Annexure-10: Declaration reg. Related Firms & their areas of Activities Annexure-11: Declaration for relation in BHEL Annexure-12: Declaration reg. minimum local content in line with revised public procurement <del>Annexure-13: Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017</del> Annexure-14: Bank Account Details for E-Payment <del>Annexure-15: Power of Attorney for submission of tender.</del> <del>Annexure-16: Proforma of Bank Guarantee for Earnest Money.</del> <del>Annexure-17: Proforma of Bank Guarantee for Performance Security.</del> <del>Annexure-18: List of Consortium Bank.</del>	
Signature and seal		



## TECHNICAL PRE QUALIFICATION REQUIREMENTS (TPQR) FOR PNEUMATIC GLOBE (CONTROL) VALVE

REF: BM/PNE:GLV:CONT/TPQR/01, Rev 00

### TECHNICAL PRE QUALIFICATION REQUIREMENTS (TPQR)

S.No	BHEL Requirements	Bidder Confirmation / Comments
1.	The bidder should have supplied Pneumatic Globe type control valves with <b>NB250 or higher size</b> as per the Technical specification requirements and datasheet or better.	Confirmed / Not Confirmed
2.	The bidder shall have experience of having supplied Pneumatic Globe type control valves as per the technical specification and datasheet for power plants or application of similar severity. Supply reference list with details of PO, PO date, customer name, application, size and class shall be submitted.	Confirmed / Not Confirmed
3.	<p>The bidder has to submit anyone of the following supporting documents meeting the pre-qualifying requirements clause no 1 &amp; 2.</p> <p>3.1 Copy of minimum one (1) performance certificate in English from end user along with copy of related PO/LOI/LOA/WO specifying that the product / equipment is running successfully for one (1) year from date of commissioning.</p> <p>3.2 Minimum two (2) PO/LOI/LOA/WO meeting the minimum pre-qualifying requirement.</p> <p>Bidder to submit the corresponding datasheets / drawings / technical documents of supplied item as per performance certificate/PO's.</p>	Submitted / Not Submitted
4.	The bidder shall be an established Pneumatic Globe type control valve supplier and having adequate Engineering, Manufacturing, Testing, Inspection and Servicing facilities and shall furnish technical backup documents in proof for aforesaid requirements.	Confirmed / Not Confirmed
5.	The Pneumatic Globe type control valve offered shall be from the existing regular supply range of the bidder. Bidder shall provide the product catalogue.	Confirmed / Not Confirmed
6.	In case of ordering, the Bidder shall have the responsibility for the following.	
6.1	Bidder should have the component replacement responsibility in case of defect / failure.	Confirmed / Not Confirmed
6.2	Bidder shall have capability to provide assistance in commissioning activities at site.	Confirmed / Not Confirmed
6.3	Bidder should ensure the product performance during erection & commissioning and ensure performance guarantee.	Confirmed / Not Confirmed

#### Abbreviation:

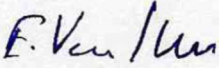


(PO) - Purchase order, (LOI) –Letter of Intent, (LOA) - Letter of award, (WO) - Work order



	<b>BHARAT HEAVY ELECTRICALS LIMITED</b> <b>TIRUCHIRAPPALLI-620014</b> <b>BOILER MOUNTINGS – PRODUCT ENGG(FB)</b>	<b>TECHNICAL SPECIFICATION</b> <b>OF PNEUMATICALLY</b> <b>OPERATED REGULATING</b> <b>GLOBE CONTROL VALVE</b>
<b>FGD/ PNE:GLV:CONT::01/ Rev 00</b>		

## TECHNICAL SPECIFICATION FOR PNEUMATICALLY OPERATED REGULATING GLOBE CONTROL VALVE

Specification No.: FGD/ PNE:GLV:CONT::01, Revision No.: 00

00	14-10-2024	Fresh Release	 E Venu Kumar Deputy Manager PE / FB (BM)	 Sathiesh Kumar S Manager PE / FB (BM)	 Srinivasu Arugula DGM PE / FB (BM)
Rev	Date	Description	Prepared	Checked	Approved

This document is meant for the exclusive purpose of bidding against this specification and shall not be transferred, reproduced or otherwise used for purposes other than that for which it is specifically issued.

	<b>BHARAT HEAVY ELECTRICALS LIMITED</b> <b>TIRUCHIRAPPALLI-620014</b> <b>BOILER MOUNTINGS – PRODUCT ENGG(FB)</b>	<b>TECHNICAL SPECIFICATION OF PNEUMATICALLY OPERATED REGULATING GLOBE CONTROL VALVE</b>
<b>FGD/ PNE:GLV:CONT::01/ Rev 00</b>		

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	<b>BHARAT HEAVY ELECTRICALS LIMITED</b> <b>TIRUCHIRAPPALLI-620014</b> <b>BOILER MOUNTINGS – PRODUCT ENGG(FB)</b>	<b>TECHNICAL SPECIFICATION</b> <b>OF PNEUMATICALLY</b> <b>OPERATED REGULATING</b> <b>GLOBE CONTROL VALVE</b>
<b>FGD/ PNE:GLV:CONT::01/ Rev 00</b>		

1	INTENT OF SPECIFICATION
1.1	This specification covers the minimum requirements for the complete design, material, manufacturing, shop inspection, testing at the manufacturer's works of Pneumatically Operated regulating Glove control Valve for Flue Gas Desulphurization plant for END CUSTOMER Project.
1.2	The vendor shall offer only proven design which meets the Provenness /Pre-qualification requirement of END CUSTOMER. Necessary document evidences as per <b>"Technical Pre – Qualification Requirements"</b> shall be submitted along with the bid. If vendor doesn't meet the specified Provenness criteria, their offer will be rejected.
1.3	Vendor shall furnish point-wise compliance to this Technical Specification.
1.4	Vendor shall make all possible efforts to comply strictly with the requirements of the specification. In case deviations are considered essential by the vendor (after exhausting all efforts), these shall be separately listed in the vendor's proposal under separate section titled "List of deviations/exceptions to the enquiry document". Deviation shall be listed separately for each document with cross reference to Page No. / Section/ Clause No. etc. of the respective document, supported with proper reasons for deviation for our consideration. Any deviation not listed under the above section, even if reflected in any other portion of the proposal shall not be considered applicable. No deviation or exception will be permitted without the written approval of BHEL.
2	SCOPE
2.1	The scope covers design, manufacture, testing, certification, marking, identification, packing and supply of Pneumatically Operated regulating Globe Control Valve for the specified duty conditions as per this specification.
2.2	All applicable accessories shall be supplied along with the valve.
2.3	This specification is not necessarily exhaustive and shall not relieve the vendor of his responsibility to provide valve, equipment and services necessary to satisfy the performance criteria and guarantees specified.



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3. TECHNICAL SPECIFICATION FOR PNEUMATICALLY OPERATED REGULATING GLOBE CONTROL VALVE			
Sl. No.	Criteria	PNEUMATIC GLOBE FLOW CONTROL VALVE WITH FAIL OPEN (FO)	Vendor Acceptance/ Comments
01.	Eligibility	Vendors having manufacturing facility in India are only eligible to quote for the offer.	
02.	Scope of Supply	<p><b>Pneumatically Actuated Globe Control Valve with smart positioner - Fail Open (FO) Valve</b> with 2nos DPDT limit switch, FRP junction box, SS double braided flexible hose, Male connector, C clamp, wiring from JB to actuator.</p> <p>FRP JB consist of filter regulator with auto drain, metallic bowl +Check valve + 3/2 Single coil spring loaded solenoid valve + tubing &amp; fitting + Male connector + wiring + Electrical terminal Box along with cable, lugs, ferrules, cable glands + exhaust silencer + 1/4 "NPT (F) Ball Valve.</p>	
03.	Application	The valves are used in the Oxidation air purge line of Wet Limestone based Flue Gas Desulphurization plant.	
04.	Disc	For regulating globe valve, the disc shall be of parabolic type suitable for fine regulation of flow.	
05.	Design standard	Design Code for Globe Valve: BS 1873/ ASME B16.34	
		Valve Inspection test for Globe Valve BS EN 12266 • Test duration — as per table A.4 Allowable leakage — RATE A- Bubble Tight	
		• Valve shall accommodate pneumatic actuator. Vendor to design valve with actuator mounting Flange dimension as per ISO 5211/ ISO 5210.	
		• End connections: Flanged Connections — ASME B16.5	



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06.	Clause Deleted		
07.	Design	1) The valves as well as all accessories shall be designed for easy disassembly and maintenance.	
		2) The shaft shall be solid type and shall pivot on bushings. Bushings/sleeve type bearings shall be contained in the hub of valve body	
		3) Valves to be installed outside shall be required to have the stem properly protected against atmospheric corrosion.	
		4) The bearing shall be self-lubricated type with low coefficient of friction and should not have any harmful effect on water and on valve components.	
		5) All valves shall be complete with continuous Mechanical position indicator (located in a visible place). Rising Stem valves shall have only visual indication through Plastic/ Metallic stem cover for all sizes.	
		6) Clutching/Declutching arrangement to be provided & shown in the GA drawing.	
		7) Lifting lugs shall be provided for valve.	
		8) Valve shall preferably be of outside screw and yoke type	
		9) Valve shall be of Bolted-Bonnet Type	
		10) Draining arrangement to be provided wherever required.	
		11) Valve shall be "tight shut off". Valve shall be rising stem type and shall have limit switches for full OPEN or full CLOSE indication. In such cases, the Limit switches shall form an integral part of the valve. Adjustable mechanical stop limiting devices to prevent over travel of valve Stem in open/close position.	
		12) Valve shall be provided with bonnet-back seating arrangement to enable on line changing of gland packing	



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		13) Manual gear operator shall be provided to open/close the valve against the maximum differential pressure across the valve such that the effort required to operate the valve does not exceed 25 kgf.	
		14) Valve shall be designed for reconditioning seating surfaces, and replacement of stem and Disc without removing the valve body from the line.	
		15) Valve shall be provided with proper name plates indicating complete information about the valves such as tag number, type, size etc.	
		16) Unless otherwise agreed, valve shall be fitted with the spindle in upright position.	
		17) Turn buckle is to be provided to ensure complete closure during commissioning.	
		18) The valve shall be designed taking into consideration of temperature and pressure of flow medium.	
		19) Valve thrust (VT) calculation to be provided considering the following: centre of gravity thrust, dynamic thrust, hydrostatic thrust, packing and hub thrust, seating thrust, unseating thrust, total opening and closing thrust to be provided.	
		20) Clause Deleted.	
		21) The actuator thrust (AT) selected shall deliver minimum 1.5 times as that of Valve thrust (VT).	
		22) Position Indicator is required. Position indicator is also to be provided when actuator is not attached to valve.	



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		<p>23) Control valve shall be pneumatically operated and will be used for regulation of flow. These valves shall be provided with the following accessories in addition to other standard items:</p> <ul style="list-style-type: none"> <li>a) Pneumatic actuator</li> <li>b) Smart positioner with Hart protocol to regulate the air - <b>For Flow control valve (FCV) only</b></li> <li>c) Air filter, solenoid valve and limit switch</li> <li>d) Draining arrangement wherever required.</li> <li>e) A Hand wheel with provision for switching to manual operation</li> <li>f) Pressure gauge</li> </ul>	
		24) End connections : Flanged Connections as per ASME B16.5	
		25) The control valve must be provided with all data important for their identification such as flow direction, type, nominal diameter, nominal pressure, seating, CV valve	
		26) For control valve wherever thickness of body/bonnet is not mentioned in the valves standards, thickness mentioned in ISO 13 or equivalent international standard for fitting shall be applicable.	
		27) Vendor shall indicate the valve rating — vendor to specify	
		28) Maximum sound level shall be <85 dBA at 1 M from the surface — vendor to confirm	
08.	<b>Provision for Manual Override</b>	1) Manual gear with hand / gear wheel operation required to ensure tight shut off.	
09.	<b>Valve &amp; actuator mounting position</b>	<ul style="list-style-type: none"> <li>1) Valves are mounted in the horizontal/ vertical direction.</li> <li>2) Actuator also mounted in the valve stem by 360 degree rotation — vendor to specify.</li> <li>3) <b>Valve size DN200 &amp; above, all accessories to be mounted on the valve body itself using SS tubing instead of flexible hose. For</b></li> </ul>	



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		other sizes separate FRP box, clamp with flexible hose arrangement to be provided.			
10.	Locking Device	1) Provision for Manual Mechanical locking is required both in the open/close position of the valve. For fine adjustment, turn buckle is required between valve stem and piston rod. 2) For manual override also Mechanical locking arrangement shall be provided with all locking accessories for locking the valve in open and close position.			
11.	Design temperature	Design temperature shall be as per the attached datasheet.			
12.	Material of Construction	1	Body	As per the datasheet	
		2	Body Seat		
		3	Plug		
		4	Cage		
		5	Stem		
13.	Depth of the valve	Face to Face dimension (depth of the valve) shall be furnished for each valve size.			
14.	Control Valve Sizing —For Flow control valve (FCV) only	Each control valve shall be sized and selected to provide reliable operation and control at the specified operating and design conditions. Control valve sizing shall generally be based on ISA S75.01  The valve sizing shall be suitable for obtaining maximum flow conditions with valve opening at approximately 80% of total valves stem travel and minimum flow conditions with valve stem travel not less than 10% of total valve stem travel. All the valves shall be capable of handling at least 120% of the required maximum flow. Further, the valve stem travel range from minimum flow condition to maximum flow condition shall not be less than 50 % of the total valve stem travel			
15.		1. For Flow control Valve: Rising stem, Pneumatic Single acting cylinder actuator to be designed considering the following			
		2. The cylinder to be designed considering the instrument air pressure of 3-5kg/sqcm			
		3. Make: Rotex/ Elomatic/ Virgo/ flowserve/ Bray/ Neles/ Festo/ SMC/ Rotork India / Any			



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**GLOBE CONTROL VALVE**

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		renowned make subject to approval of BHEL	
		4. One step higher sized cylinder to be selected considering internal resistance of piston sliding friction. It is assumed as 0.5kg/sqcm — vendor to indicate the internal resistance pressure	
		5. Actuator connection to valve: Piston rod is connected to valve stem through Turn Buckle. Body cylinder head to Body yoke by fasteners.	
		6. Vendor to furnish the actuator thrust selection calculation for each cylinder with their offer.	
		7. The Actuator model along with catalogue to be furnished with exploded view highlighted with recommended seal kit and repair kit.	
		8. Piston diameter/bore size to be furnished along with offer — vendor to furnish for each valve size	
		9. Turn Buckle adjustment of $\pm 10$ mm in both directions.- vendor to confirm	
		10. Turn Buckle to be provided in the actuator stem.	
		11. Air Tubing: DN8 SC10, SS304 (OD - 13.72mm, Wall Thickness — 1.651mm). Vendor to follow this minimum tube size. Vendor can select higher size tubing as per requirement, if necessary.	
		12. <b>For Flow control Valve</b> : 1 No. of 1/4" Male connector in actuator for flexible hose connection	
		13. Material of all Pneumatic Fitting shall be of SS304/ 316 only.	
		14. Local Position Indicator to be provided	
		15. <b>For Flow control Valve</b> : In case of Power Failure: Position - Fail Open (FO)	
		16. <b>For Flow control Valve</b> : In case of Air Failure: Fail Open (FO)	
		17. Actuator Travel Time : Vendor to specify	
		18. Actuator Protection Class: IP-65 (Min.)	
		19. Mechanical seals of Pneumatic Actuator cylinder shall be suitably selected by the vendor (Piston packing, Piston seal, Rod	



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		Packing, wipers & cushioning etc.)- vendor to confirm and same to be ensured in the drawing approval stage.	
		20. Wear Strip of Pneumatic actuator cylinder shall be suitably selected by the vendor.	
		21. Actuator Thrust : Vendor to specify	
		22. 2 nos. of DPDT (2 NO + 2NC) limit switch are to be provided, 1 for open and 1 for close position, Protection class: Weather Proof IP65, Rating: 24VDC / 230V AC, minimum 5A for 24V DC. Make shall be subject to approval of BHEL. Make to be specified in technical offer itself.	
		23. Limit switch cable: OD of the cable 4PX0.5sqmm shall be 10.5 ± 2mm unarmoured HR PVC with FRLS property & with Al Mylar taped insulation required.	
		24. Gear box, handle wheel should not touch the pipe OD or cylinder.	
		25. Valve Open / Close position Locking arrangement required — so that valve will be in same position whenever actuator is taken for maintenance	
		26. All threading of pneumatic fitting shall be "NPT".	
		27. All ferrules shall be of SS 304 material or Tinned Copper only.	
		28. All valves should have manual override, clutching, declutching arrangement to be provided to enable local gear drive operation — vendor to confirm.	
		29. Pneumatic Actuator Drawing with sectional view to be provided.	
		30. Speed adjustment for actuator operation to be provided to facilitate speed adjustments both during opening & closing by means of flow control valve.	
16.	<b>ELECTRONIC POSITIONER - For Flow Control Valve (FCV)</b>	1) TYPE: Electro Pneumatic, Microprocessor Based, Loop Powered	
		2) INPUT (mA): 4-20mA	
		3) Valve position sensing output: 4-20mA O/P Signal for Control System	
		4) Protection class: IP-65 (MIN)	



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		5) Electrical connection: 1/2" NPT Side/Bottom Entry Pneumatic connection: 1/4" NPT	
		6) Inbuilt Display With Push Button: Required for Configuration	
		7) Pressure Gauge: Required	
		8) EMC OR CE Compliance: Required, EN50081-2 & EN50082 or Equivalent	
		9) Positioner Transmitter: Applicable (Capacitance or Resistance Type.)	
		10) Power supply: Loop powered from the output card of control system.	
		11) Hart Protocol (Universal HART calibration to be provided): Compatibility for remote calibration and diagnostic (Super-Imposed Hart signal on input signal (4-20mA).	
		12) In-built operator panel: Display with push buttons for configuration and display on the positioner itself password protected/ hardware lock).	
17.	<b>Junction Box</b>	1) Air Tubing: DN8 SC10, SS304 (OD - 13.72mm, Wall Thickness — 1.651 mm). Vendor to follow this minimum tube size. Vendor can select higher size tubing as per requirement, if necessary.	
		2) Material of all Pneumatic Fitting shall be of SS 304/316 only.	
		3) 1/4" NPT (F) Ball Valve in pneumatic circuit before AFR with end dummy plug	
		4) 1/4" NPT — SS body & SS spring loaded check valve (valve opening 0.1kg/cm <sup>2</sup> - vendor to confirm	
		5) For Flow control Valve : 1/4" NPT Solenoid Valve: 3/2, Single Coil spring loaded Solenoid valve 24V DC (if applicable)	
		6) Solenoidal Valves Body: SS 304/316 material.	





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		7) Solenoidal valve should be of renowned make —Avcon, Rotex, Asco. Any other make shall be subjected to BHEL approval for which sample valve to be supplied to BHEL. If sample is not meeting the requirements of BHEL, then vendor to choose any one of the above make. During enquiry, bidder to mention the make of the Solenoid Valve.	
		8) Cable from Solenoid to Terminal box: 3C X 2.5 <a href="#">sq.mm</a> unarmored HR PVC with FRLS property & with Al Mylar taped insulation required.	
		9) 1/4" NPT Air Filter Regulator: Auto Drain AFR with Suitably sized Metallic bowl with sintered bronze filter element to be provided — vendor to specify make/model no.	
		10) Filter regulator to be adjusted to any position as per the site requirement so that drain should be in downward direction.	
		11) All threading shall be "NPT".	
		12) All ferrules shall be of SS 304 or Tinned copper material only.	
		13) All wiring shall be provided with ATC Lugs (24 Nos.) with ferrules.	
		14) General arrangement drawing in autocad 3D along with valve & pneumatic fittings with all accessories to be provided during the technical offer.	
		15) Electrical TB with 2x12 terminals (600V grade) with proper lugs and ferrule — vendor to confirm	
		16) Double compression metallic cable glands- 4 Nos. OF 4 PAIR X 0.5 and 3 Nos. of 3 coreX1.5sqmm (totally 7 nos.)	
		17) In the JB, all glands are mounted such that water should not enter (cable bottom entry & glands face downward)	



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		18) Cable: All Wirings from limit switches, solenoid valve to Terminal Box with proper cable gland shall be pre-assembled at vendor works.	
		19) Protection Class: Finally wired JB has to meet IP 55 and also JB door and inlet of air and drain shall be water tight.	
		20) Clause Deleted	
18.	<b>Name plate</b>	<p>Vendor shall provide two Name plates, one shall be affixed on the body and another to be tied with the stem.</p> <p>A) Name plate affixed on the body should contain the following details.</p> <p>1) Material Code:_____</p> <p>2) Valve size:_____</p> <p>3) PO Number:_____</p> <p>4) Vendor details:_____</p> <p>5) Approximate weight in Kgs.:_____</p> <p>B) Loose Name plate tied with the stem should contain the following details.</p> <p>1) Material code:_____</p> <p>2) Tag Number:_____ (to be punched at site).</p>	
19.	<b>Documents to be submitted with offer</b>	1) Point wise acceptance and deviations (if any) of this specification.	
		2) Previously supplied Pneumatic Regulating Globe control Valve reference list for the offered models with PO copies and approved drawing with respect to referred PO.	
		<p>3) Valve Thrust (VT) Calculation to be provided considering the following:</p> <ul style="list-style-type: none"> <li>Centre of gravity Thrust, Dynamic Thrust, Hydrostatic Thrust, Packing and Hub Thrust,</li> <li>Seating Thrust, Unseating Thrust, Total Opening and Closing Thrust to be provided</li> </ul>	
		4) Actuator thrust calculation & Actuator selection basis to be provided	



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		<p>5) GA drawing showing all accessories with BOM &amp; cross sectional view along with actuator, position indicator, manual override, Gear box, clutching-declutching arrangement, valve locking arrangement,</p> <p>(a) Pneumatic circuit diagram &amp; Electric wiring diagram to be provided for Stayput condition,</p> <p>(b) Pneumatic circuit diagram &amp; Electric wiring diagram for control valve with Smart Positioner for Fail open (FO) to be submitted.</p> <p><b>Otherwise offer will not be considered.</b></p>	
		6) Proof Of Design Test (Type Test) Certificate for all offered sizes of valve to be submitted, in the absence of which actual P.O.D. test shall be conducted by the bidder in the presence of <b>Employer's</b> representative	
		7) List of Commissioning spares required & its make and model number.	
		8) Latest Valve catalogue	
		9) Valve Regulation Characteristics curve	
		10) CV calculation	
		11) Duly filled up data sheet for each valve type as per <b>Annexure-I</b> in the enclosed format	
		12) Clause Deleted	
20.	<b>Documents to be approved before manufacturing</b>	<p>1) GA drawing showing all accessories with BOM &amp; cross sectional view along with actuator, manual override &amp; valve locking arrangement, for BHEL/ Customer Approval</p> <p>2) Junction box drawing with TB and double compression cable gland - for BHEL/ Customer approval</p> <p>3) Pneumatic circuit diagram &amp; Electric wiring diagram — for Pneumatically operated valves - for BHEL/ Customer approval</p> <p>4) Duly filled up data sheet for each valve type as per <b>Annexure-I</b> in the enclosed format</p> <p>5) CV calculation</p>	



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21.	<b>Inspection</b>	<p>Inspection shall be as per the approved BHEL's standard quality plan and will be carried out by Customer or authorized agency /BHEL.</p> <p><b>QA BHEL-TRICHY furnished inspection category shall be treated as final.</b></p>	
22.	<b>Painting</b>	As per Painting schedule.	
23.	<b>Commissioning spare</b>	List of Commissioning spares required & its make and model number. Its cost to be included in the main offer	
24.	<b>Packing</b>	<p>1) Each Valve assembly shall be wrapped in polythene bag and packed in a strong rigid wooden box. Box top should be fully covered and side upto 200mm from top also to be covered with Tarpaulin.</p> <p>2) Rain water should not enter into the packing of Valve &amp; actuators during storage in the outer yard of power plant. Packing box drawing to be sent for <b>BHEL</b> approval.</p>	
25.	<b>Outside the box</b>	PO number, vendor name, item size, material code, model number, Quantity inside the box to be mentioned.	
26.	<b>General Instruction</b>	<p>1) All Necessary material test certificates to be produced at the time of inspection for Valve body, stem, seals, Viton seals, Limit switch, Air Filter regulator, Air cylinder, Solenoid valve etc.</p> <p>2) Only latest revision shall be referred for all the Standards specified.</p> <p>3) After the receipt of offer, all vendors will be assessed by BHEL team and further processing of offer is based on the team's reports and recommendation. This is mandatory for all vendors.</p> <p>4) Initially filled Lubricant if any — vendor to supply</p>	



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**Annexure-I**

<b>4.DATASHEET FOR PNEUMATICALLY OPERATED REGULATING GLOBE CONTROL VALVE</b>			
<b>S No</b>	<b>Criteria</b>	<b>BHEL Specification</b>	<b>Vendor to Fill</b>
<b>1.0</b>	<b>GENERAL</b>		
1.1	PROJECT	<b>SAGARDIGHI TPP</b>	
1.2	SERVICE	<b>PURGE AIR VALVE</b>	
1.3	LOCATION	OUTDOOR	
1.4	DUTY	MODULATING	
1.5	PIPE SIZE (Inlet / Outlet)	<b>NB300x4.57</b>	
1.6	PIPE MATERIAL (Inlet / Outlet)	<b>A312-TP316L</b>	
1.7	MEDIUM	AIR	
<b>2.0</b>	<b>BODY</b>		
2.1	MAKE	VENDOR TO FURNISH	
2.2	MODEL NO.	VENDOR TO FURNISH	
2.3	TYPE OF BODY	GLOBE	
2.4	GUIDING	CAGE	
2.5	NO. OF PORTS	VENDOR TO FURNISH	
2.6	BODY SIZE:	VENDOR TO FURNISH	
2.7	PORT SIZE	VENDOR TO FURNISH	
2.8	DESIGN Cv	VENDOR TO FURNISH	
2.9	END CONNECTION & RATING (ANSI)	<b>FLANGED CONNECTION (NB 300)</b>	
2.10	FASTENERS	VENDOR TO FURNISH	
2.11	COUNTER FLANGES SHALL BE IN VENDOR SCOPE	VENDOR TO CONFIRM	
2.12	BODY MATERIAL	<b>ASTM-A182 F304</b>	
2.13	PACKING MATERIAL	GRAFOIL	
2.14	BONNET TYPE	STD / EXTENDED / FINNED	
2.15	TRIM FORM	VENDOR TO FURNISH	
2.16	TRIM MATERIAL: SEAT	<b>A351CF8M</b>	
2.17	PLUG	<b>A351CF8M</b>	
2.18	CAGE	<b>A351CF8M</b>	
2.19	STEM	<b>A351CF8M</b>	
2.20	BALANCED / UNBALANCED	VENDOR TO FURNISH	
2.21	FLOW	BELOW SEAT / ABOVE SEAT	
2.22	VALVE OUTLET VELOCITY	< 8 m/s	
2.23	REQUIRED LEAKAGE CLASS	<b>V</b>	
2.24	NOISE LEVEL (dBA)	<85 dBA at 1 metre from surface	
2.25	ANTI CAVITATION TRIM	Not Applicable	
2.26	VALVE LIFT mm	VENDOR TO FURNISH	
<b>3.0</b>	<b>PERFORMANCE OF VALVE</b>		
3.1	LINEARITY	±1%	
3.2	HYSTERESIS	±1%	
3.3	SENSITIVITY	± 0.5%	
3.4	DEADBAND	± 1%	
3.5	REPRODUCIBILITY	0.3% of total stroke	
3.6	ACCURACY (OVERALL)	± 1%	



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<b>4.0</b>	<b>PNEUMATIC ACTUATOR</b>		
4.1	MAKE	VENDOR TO FURNISH	
4.2	MODEL NO.	VENDOR TO FURNISH	
4.3	TYPE	VENDOR TO FURNISH	
4.4	IP CLASS	IP 65	
4.5	OPERATING TIME FOR OPENING	VENDOR TO FURNISH	
4.6	OPERATING TIME FOR CLOSING	VENDOR TO FURNISH	
<b>5.0</b>	<b>ACCESSORIES</b>		
5.1	SMART POSITIONER	REQUIRED; HART PROTOCOL COMPATIBLE	
5.2	AIR FILTER REGULATOR	REQUIRED	
5.3	AIR LOCK RELAY	REQUIRED	
5.4	POSITION LIMIT SWITCH	REQUIRED	
5.5	POSITION TRANSMITTER	REQUIRED	
5.6	SOLENOID VALVE	REQUIRED IF APPLICABLE	
5.7	I/P CONVERTER	REQUIRED	
5.8	JUNCTION BOX	REQUIRED	
5.9	HAND WHEEL (SIDE MOUNTED)	REQUIRED	
5.10	LOCAL POSITION INDICATOR	REQUIRED	
5.11	VOLUME BOOSTER & DUMP VALVE	REQUIRED / NOT REQUIRED	
<b>6.0</b>	<b>POSITIONER</b>	<b>REQUIRED: SMART TYPE</b>	
6.1	MAKE & MODEL NO.	VENDOR TO FURNISH	
6.2	BYPASS: GAUGES: ENCLOSURE CLASS	VENDOR TO FURNISH	
6.3	INPUT SIGNAL IN kg/cm <sup>2</sup> (g)	VENDOR TO FURNISH	
6.4	OUTPUT SIGNAL	VENDOR TO FURNISH	
6.5	COMPATIBILITY WITH HART PROTOCOL	VENDOR TO FURNISH	
<b>7.0</b>	<b>AIR FILTER REGULATOR</b>	<b>REQUIRED</b>	
7.1	MAKE & MODEL NO.	VENDOR TO FURNISH	
	MAX. INPUT AIR PRESSURE	VENDOR TO FURNISH	
7.2	AIR SUPPLY PRESSURE IN kg/cm <sup>2</sup> (g)	3.0 TO 5.0	
7.3	OUTPUT PRESSURE IN kg/cm <sup>2</sup> (g)	TO SUIT ACTUATOR	
7.4	OUTPUT PR. GAUGE	2" DIAL SIZE REQUIRED	
7.5	BODY MATERIAL	VENDOR TO FURNISH	
7.6	BOWL MATERIAL	METALLIC	
7.7	FILTER ELEMENT	SINTERED BRONZE OR BETTER	
7.8	FILTER SIZE	5 MICRONS OR BETTER	
7.9	END CONNECTION	¼" NPT(F)	
<b>8.0</b>	<b>AIR LOCK RELAY</b>	<b>REQUIRED</b>	
8.1	MANUFACTURER & MODEL NO.	VENDOR TO FURNISH	
8.2	SET PRESSURE IN kg/cm <sup>2</sup> (g)	VENDOR TO FURNISH	
8.3	SUPPLY PRESSURE IN kg/cm <sup>2</sup> (g)	3.0 TO 5.0	
8.4	RESET TYPE	AUTO	
8.5	VENT PLUG	VENDOR TO FURNISH	
<b>9.0</b>	<b>LIMIT SWITCH</b>	<b>REQUIRED</b>	
9.1	MANUFACTURER & MODEL NO.	VENDOR TO FURNISH	



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9.2	OPEN: INT: CLOSE	1 NO.FOR OPEN & ONE NO. FOR CLOSE	
9.3	CONTACT TYPE	DPDT(2NO+2NC+CONTACTS)	
9.4	RATING (AC/DC)	3A 240V, AC AND 0.1A, 220V, DC	
9.5	ENCLOSURE CLASS	IP65	
<b>10.0</b>	<b>POSITION TRANSMITTER</b>	<b>REQUIRED; INBUILT IN SMART POSITIONER</b>	
10.1	MANUFACTURER & MODEL NO.		
10.2	TYPE		
10.3	SUPPLY		
10.4	OUTPUT RATING		
10.5	ACCURACY		
10.6	ENCLOSURE CLASS		
<b>11.0</b>	<b>HAND WHEEL</b>		
11.1	ORIENTATION	SIDE MOUNTED	
<b>12.0</b>	<b>SS JUNCTION BOX</b>		
12.1	TYPE / NO. OF WAYS / SIZE	SS /CAGE CLAMP / THIRTY SIX/ 2.5 SQ.MM	
12.2	MOC	2 mm FOR ENCLOSURE AND 3 mm FOR GLAND PLATE WITH SS HINGE, IP LOCK AND NEOPRENE GASKET	
12.3	CABLE GLANDS: (SIZE / QTY)	REQUIRED : 16MM / 3 NO. / BRASS WITH NICKEL PLATED / BOTTOM	
12.4	METHOD OF TERMINATION	3 NO; 9 PIN PLUG & SOCKET (2 WIRED, 1 LOOSE)	
12.5	ENCLOSURE CLASS	IP65	
12.6	PAINT SHADE	COLOUR 631 IS 5 EPOXY POWDER COATED	
<b>13.0</b>	<b>I/P CONVERTER</b>	<b>REQUIRED; INBUILT IN SMART POSITIONER</b>	
13.1	INPUT SIGNAL : POWER SUPPLY		
13.2	SPLIT RANGE		
13.3	ENCLOSURE CLASS		
<b>14.0</b>	<b>PNEUMATIC FITTINGS AND CONNECTIONS</b>	SHALL BE SS	
14.1	MATERIAL	STAINLESS STEEL	
14.2	SIZE	VENDOR TO FURNISH	
<b>15.0</b>	<b>OTHER REQUIREMENTS</b>		
15.1	ACTUATOR SIZING PRESSURE	VENDOR TO FURNISH	
15.2	BODY DESIGN: PRESSURE / TEMPERATURE	10.0 kg/cm <sup>2</sup> (g) / 300°C	
15.3	IBR FORM – III C	NOT REQUIRED	
15.4	WEIGHT OF THE HEAVIEST PART TO BE HANDLED IN KGS	VENDOR TO FURNISH	
15.5	TOTAL WEIGHT (VALVE + ACTUATOR + ACCESSORIES) IN KGS	VENDOR TO FURNISH	



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OPERATING CONDITIONS											
Sl. NO	LOAD	FLOW m3/h	INLET PR. Kpa (g)	OUTLET PR. Kpa (g)	PR. DROP Kpa (g)	INLET TEMP (°C)	SP. GRAVITY	CALC. Cv	VALVE LIFT %	VALVE OUTLET VELOCITY	NOISE LEVEL DBa
1	Condition-1	5000.00	135.00	85.00	50.00	300.0	VENDOR SHALL FURNISH				
2	Condition-2	2000.00	110.00	Vendor to inform		130.0	VENDOR SHALL FURNISH				





**ANNEXURE - I**  
**LIST OF DEVIATIONS OR EXCEPTIONS TO THE**  
**SPECIFICATION & ANNEXURES**

REFERENCE NO : PNE:GLV:CONT/DEV/01

REV. NO.: 00      DATE: 14.10.2024

SECTION: Boiler Mountings/PE (FB)

PAGE NO : 1 OF 1

**LIST OF DEVIATIONS OR EXCEPTIONS TO THE SPECIFICATION & ANNEXURES**

**Projects :**

**Enquiry No :**

\*We hereby accept to the Technical Specification for Pneumatic Globe Control Valve and all the parameters for this projects.

SIGNATURE OF BIDDER \_\_\_\_\_

NAME \_\_\_\_\_

DESIGNATION \_\_\_\_\_

(OR)

\*The following are the technical deviations to the specification:

Sl No	Clause No	Page No	Description of Deviation

SIGNATURE OF BIDDER \_\_\_\_\_

NAME \_\_\_\_\_

DESIGNATION \_\_\_\_\_

\*Strike out whichever is not applicable

DEVELOPMENT CONSULTANTS PRIVATE LIMITED

Reviewed only for general conformance with contract drawings and specifications.

ACTION: 5

1

Approved

4

Disapproved.

1\*

Approved with Comments

5\*

For information and record with comments.

2

Approved except as noted. Forward final drawing.

3

Approved except as noted. Resubmission required.

3

For information and Record.

Contractor to be responsible for any errors and for fulfillment of detailed requirements of contract documents.

Digitally signed by Pratip Basak  
DN: cn=Pratip Basak, o=DCPL,  
ou=Power Cell,  
email=pratip.basak@in.dclgroup.com, c=IN  
Date: 2022.07.22 12:21:43  
+05'30'


CUSTOMER	<div><div><div><div></div><div>THE WEST BENGAL POWER DEVELOPMENT CORPORATION LIMITED (WBPDCCL)</div><div>1X660MW,SAGARDIGHI THERMAL POWER EXTENSION PROJECT (UNIT #5)</div></div></div></div>				
CONSULTANT	<div><div><div><div></div><div>DEVELOPMENT CONSULTANTS PRIVATE LIMITED</div><div>KOLKATA</div></div></div></div>				
	<div><div><div><div></div><div>BHARAT HEAVY ELECTRICALS LIMITED</div><div>HIGH PRESSURE BOILER PALNT, TIRUCHIRAPPALLI</div></div></div></div>				
<div><div><div><div></div><div>COPY RIGHT AND CONFIDENTIAL.</div><div>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED it must not be used directly or indirectly in any way detrimental to the interest of the company.</div></div></div></div>	DEPT CODE	Name	Sign	Date	
		PRPD. BY	K. Srinivasan	<div><div></div></div>	27.06.2022
		CHKD. BY	K. Rajmohan	<div><div></div></div>	27.06.2022
		APPD. BY	A. Santhakumari	<div><div></div></div>	27.06.2022
TITLE: PAINTING SCHEME (SG, SCR & FGD COMPONENTS)					
WBPDCCL DOC. NO. TP-DG-445-LAB-A056		REV. NO.: 02			

JOB NO.	445			
STATUS	CONTRACT			
DISTRIBUTION				
TO				
NO.				
REV.	DATE	ALTD	CHD	APPD

**PAINTING SCHEME FOR VALVES**

Sl.No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate coat		Finish coat			Total DFT $\mu\text{m}$ (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
11	<u>Cast carbon steel valves (Conventional)</u> <u>Cast alloy steel valves (Conventional)</u> <u>All API valves, OCNRV, SV &amp; SRV Silencers,</u> 21-800,825, 24-885; Safety valves & ERV 21-850; 24-880,881,883; SCR system: SR-103,203,503, <b>FGD system:</b> FJ360, FJ364, FJ960, FP860, FP867, FS300; Forged valves	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminium Paint to IS 13183 Gr. II/I DFT=20 $\mu\text{m}$ per coat	1	--	--	Heat Resistant Aluminium Paint to IS 13183 Gr. II/I DFT=20 $\mu\text{m}$ per coat	1	Aluminum	40
1AS	<u>Soot Blower housing components, temperature &lt;95 deg.C</u> 20-051,054,201,204,794,962;  HP / LP system	SSPC-SP3/ Power Tool Cleaning	Phosphating to a coating weight of 1500 mg per Sq.ft.  Red Oxide Zinc Phosphate Primer (Alkyd Base) to IS 12744 DFT= 30 $\mu\text{m}$ per coat  Heat Resistant Aluminium Paint to IS 13183 Gr.I	--  2  2	--  --  --	--  --  --	--  Syn. Enamel paint (Long Oil Alkyd) to IS 2932 DFT= 20 $\mu\text{m}$ per coat  --	--  2  --	--  Verdigris Green Shade No. 280 of IS5  --	--  100  40

@ Heat resistant aluminum paint to IS 13183 Gr.II shall be applied for temperature up to 400 deg.C, Gr. I shall be applied for temperature >400 deg.C and < 600 deg.C

 <b>429-024</b>	<b>PURCHASE / MM / FB</b> <b>ANNEXURE- 3: CERTIFICATE OF NO DEVIATION</b>	
	Page	OF
	DATE	
DESCRIPTION	<b>PNEUMATIC GLOBE CONTROL VALVE and its Mandatory spares (GEM ENQUIRY:.....)</b>	
SPECIFICATION	<b>1. SPECIFICATION WITH DATASHEET REF: FGD/PNE:GLV:CONT::01 REV 00</b> <b>2. PQR - BM/PNE:GLV:CONT/TPQR/01.</b> <b>3. LIST OF DEVIATIONS OR EXCEPTIONS TO THE SPECIFICATION &amp; ANNEXURES REF: PNE:GLV:CONT/DEV/01</b> <b>4. Annexure B-Item details</b>	
QUALITY PLAN	<i>Vendor Quality Plan</i>	
DOC. REFERENCE	BHEL ENQ. CALLED FOR	FIRM'S ALTERNATE OFFER

1. We hereby confirm that we have not changed/ modified/materially altered any of the tender documents as downloaded from the website/ issued by BHEL and in case of such observance at any stage, it shall be treated as null and void.
2. We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred GeM Bid.
3. We further confirm our unqualified acceptance to all Terms and Conditions, unqualified compliance to Tender Conditions.
4. We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

STATION:

DATE:

SIGNATURE OF FIRMS REPRESENTATIVE

FIRM SEAL

NOTE:

1. Deviations should be taken only in the extreme case.
2. If necessary, use additional sheets with page control number

**ANNEXURE- 4****UNDERTAKING**

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

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**To,**

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

Dear Sir/Madam,

**Sub: DECLARATION REGARDING INSOLVENCY/ LIQUIDATION/ BANKRUPTCY PROCEEDINGS**

**Ref:** GeM Bid Specification No:

I/We, \_\_\_\_\_ declare that,

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

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

Place:

Date:

**ANNEXURE – 6****DECLARATION BY AUTHORISED SIGNATORY OF BIDDER**

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

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-----  
To,

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

Dear Sir,

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

Ref : 1) GeM Bid No. & Date: .....

2) All other pertinent issues till date

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

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

Yours faithfully,

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

**Date:**

**ANNEXURE- 7****NON-DISCLOSURE CERTIFICATE**

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

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I/We understand that BHEL **TRICHY** is committed to Information Security Management System as per their Information Security Policy.

Hence, I/We M/s

.....  
who are submitting offer for providing services to BHEL **TRICHY** against GeM Bid No..... hereby undertake to comply with the following in line with Information Security Policy of **BHEL TRICHY**

- To maintain confidentiality of documents & information which shall be used during the execution of the Contract.
- The documents & information shall not be revealed to or shared with third party which shall not be in the business interest of BHEL **TRICHY**

**(Signature, date & seal of Authorized  
Signatory of the bidder)**

**Date:**



**ANNEXURE – 10****DECLARATION**

Date: \_\_\_\_\_

To,

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

Dear Sir/ Madam,

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

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

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

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

Regards,

(\_\_\_\_\_)

From: M/s \_\_\_\_\_

Supplier Code: \_\_\_\_\_

**ANNEXURE – 11****DECLARATION FOR RELATION IN BHEL**

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

-----  
To,

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

Dear Sir,

**Sub: Declaration for relation in BHEL**

**Ref:** 1) GeM Bid Specification No: .....

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

**Tick (✓) any one as applicable:**

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

OR

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

i.

ii.

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

Note:

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

**ANNEXURE – 12**

**DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH  
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017 DATED 04<sup>TH</sup>  
JUNE, 2020 AND SUBSEQUENT ORDER(S)**

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

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-----  
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 04<sup>th</sup> June, 2020 and subsequent order(s).

**Ref:** 1) GeM Bid Specification No: .....  
2) All other pertinent issues till date

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

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

- |          |          |
|----------|----------|
| 1. _____ | 2. _____ |
| 3. _____ | 4. _____ |
| ...      |          |

Thanking you,  
Yours faithfully,

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

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

**Note:**

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

## **ANNEXURE-C**

### **Financial Soundness:**

1. Indigenous suppliers shall submit Audited copies of annual reports (Balance Sheets), Profit & Loss statement for the last three years (or from date of incorporation whichever is less) and GST certificate.

**Vendor signature and seal with Date**