

 434-001	ENQUIRY VALVES	Bharat Heavy Electricals Limited (A Government of India undertaking) HIGH PRESSURE BOILER PLANT PURCHASE DEPARTMENT/VALVES TIRUCHIRAPPALLI-620 014.		Phone:04312577096 FAX :0431-2520383 Email: sivabala@bheltry.co.in
		ENQUIRY NO.	DATE	DUE DATE FOR QUOTATION
		ENSFV00179	06.09.2017	20.09.2017
		Please quote Enquiry No., and due date in correspondences This is only a request for quotation and not an order.		
Supply of high pressure and temperature gate and check valves. <u>Date, Time & Venue of tender opening:</u> 20.09.2017 at 14.30 Hrs. at Tender Opening Cell Building-24 BHEL Trichy-620014		<u>Scope of supply</u> Supply of Inconel Valves as per details enclosed. -List of Annexures Annexure 1A- Scope of Supply Annexure 1B- Specification Annexure 2A- General terms & Conditions_ENSFV00179 Annexure 2B- Confirmation to terms and conditions Annexure 3A - Schedule of Deviation Format Annexure 3B- Performance Bank Guarantee Annexure 4- Unpriced format Annexure 5- Priced format		
The rate of Excise Duty and Sales Tax, Prevalent on the date of quotation, should be clearly indicated in the quotation itself. Please, submit your lowest quotation in duplicate subject to our terms and conditions , for the above materials, so as to reach us on or before the due date by 14.00 Hrs. (IST) Quotation will be opened at 14.30 Hrs. (IST) on the due date in the presence of tenderers who may like to be present. Late tenders will not be considered.		Yours faithfully,  For Bharat Heavy Electricals Ltd 		

ENSFV00179 - SCOPE OF SUPPLY

Enq SI No.	Material Code	Description	Qty
1	979990260000	1"-PR165KG/SC-T735D.C-GLV-INCONEL-SW-HO	2
		OPERATIONAL SPARES FOR 3 YEARS, AS BELOW	
		STEM - DISC ASSEMBLY	2
		YOKE BUSH	2
		SET OF PACKING RINGS	2
		GASKET	2
		ERECTION AND COMMISSIONING SPARES AS BELOW	
		SET OF PACKING RINGS	2
		GASKET	2
		ANY OTHER SPARES RECOMMENDED BY SUPPLIER	2
2	979990380000	1/2"-PR165KG/SC-T735DC-GLV-INCONEL-SW-HO	6
		OPERATIONAL SPARES FOR 3 YEARS, AS BELOW	
		STEM - DISC ASSEMBLY	6
		YOKE BUSH	6
		SET OF PACKING RINGS	6
		GASKET	6
		ERECTION AND COMMISSIONING SPARES AS BELOW	
		SET OF PACKING RINGS	6
		GASKET	6
		ANY OTHER SPARES RECOMMENDED BY SUPPLIER	6

NOTE:

Adequacy of spares will be determined before ordering



365-147

PE/ VALVES
BHEL/TRICHY-14TECHNICAL SPECIFICATION FOR GLOBE VALVES OF SIZE UP TO
AND INCLUDING 2"**TECHNICAL SPECIFICATION FOR GLOBE VALVES OF SIZE UP TO AND
INCLUDING 2"**

Revision	Date	Altered	Chd	Appd	Revision	Date	Altered	Chd	Appd	Sheet 1 of 9
01	20.11.2014	S.S.K	K.R.S	S.S.S	02	25.07.2017	S.S.K	K.R.S	C.K.V	
Prepared	S.S.K	Chd	K.R.S	Appd	S.S.S	Date	30.07.2014	SPEC:CV:0001		02



365-147

PE/ VALVES
BHEL/TRICHY-14

TECHNICAL SPECIFICATION FOR GLOBE VALVES OF UP TO AND INCLUDING 2"

Contents

TECHNICAL SPECIFICATION FOR GLOBE VALVES OF SIZE UP TO AND INCLUDING 2"	1
1. GENERAL:	3
2) CODES AND STANDARDS:	3
3) DESIGN REQUIREMENTS:	3
4) CONSTRUCTION FEATURES:	4
5) SHOP INSPECTION AND TESTS:	5
6) DATA/ DOCUMENTS/ DRAWINGS TO BE FURNISHED:	6
7) DEVIATIONS:	7
8) GURANTEE:	8
9) BREAK UP FOR SUPPLY OF GLOBE VALVES:	8
10) RECORD OF REVISIONS:	8
Annexure – I	9



365-147

PE/ VALVES
BHEL/TRICHY-14TECHNICAL SPECIFICATION FOR GLOBE VALVES OF UP TO AND INCLUDING 2"**1. GENERAL:**

This specification covers design, material, construction features, manufacture, inspection, testing, painting and packing requirements of globe valves of size up to & including 2" at vendor's or/ and his sub vendor's works and delivery to project site. The offer shall be submitted along with all the documents required in this specification. Offer without all supporting documents requested in this specification will not be considered.

2) CODES AND STANDARDS:

2.1) The design, material, construction, manufacture, inspection and testing of valves shall conform to the latest applicable codes and standards.

ANSI-	American National Standards Institute
ASME-	American Society of Mechanical Engineers
ASTM-	American Society for Testing and Materials.
AWS-	American Welding Society
IBR-	Indian Boiler Regulations
OSHA-	Occupational Safety and Health Administration
DIN-	Deutsche Industrie Norm
BS-	British Standards

2.2) The material specification shall be as per DIN material no. 2.4663/ ASTM B564 UNS N06617

2.3) Nothing in this Specification shall be construed as relieving the Bidder of his responsibility for compliance with all applicable codes and regulations.

2.4) The valves covered under this specification shall be tailor made for the design temperatures and pressures as mentioned in Annexure I.

3) DESIGN REQUIREMENTS:

3.1) These valves shall be used for services like water, steam, superheated steam and gas unless otherwise specified in specific requirements.

3.2) The valves of similar size/rating shall be interchangeable with one another unless otherwise approved.

3.3) Seat on body shall integral as per the standard requirement.

3.4) These are valves coming under the purview of Indian Boiler Regulation and shall satisfy all the requirements of IBR-1950.

3.5) Materials:

3.5.1) Material requirement is indicated in Annexure I enclosed with the specification. Materials shall be as per ASTM or IS or other National/ International Standards. For materials other than ASTM, corresponding equivalent ASTM standard and nominal composition shall be indicated.

4) CONSTRUCTION FEATURES:

4.1) End Connections:

4.1.1) Socket details of valves with socket welding ends shall be as per ASME B16.11 of corresponding pound-rating and shall suit pipe size as indicated in specific requirements.

4.2) Globe valves shall be of outside screw and yoke type with rising spindle and shall be capable of being closed against the rated pressure.

4.3) Gland & gland flange shall be separate pieces for uniform tightening of gland packing.

4.4) All globe valves shall have an arrow indicating the direction of flow embossed on the valve body. The direction of flow for globe valves shall be from under to over the disc.

4.5) Globe and Regulating Globe valves shall have back seating arrangement for replacement of packing while working under full working pressure.

4.6) All Globe valves shall have conical or spherical or flat seating.

4.7) For Globe valves, the disc shall be free to revolve on the spindle.

4.8) Seat surface shall be Stellite grade 6 or superior suitable for the service condition.

4.9) All hand operated valves shall be closed by rotating the hand wheel in the clockwise direction when looking at the face of the hand wheel. The face of each hand wheel shall be clearly marked "Open" and "Shut" with arrows indicating the direction of rotation to which they refer. Each valve shall be fitted with a tag plate of stainless steel indicating the valve Tag No., duty or service condition intended and the function of the valve. This is in addition to nameplates and labels being provided by the manufacturer as per MSS SP 25.

4.10) All Globe valves shall be designed for reconditioning of seating surfaces and replacement of stem and disc without removing the valve body from pipeline.

4.11) All valves shall have a construction of pressure seal type. For pressure seal bonnet type valves, suitable inlay in the gasket area and gaskets with standing the pressure and temp as mentioned in Annexure-I or other acceptable proven features shall be provided.

4.12) All valves shall be suitable for the service (i.e.) flow, temperature and pressure under which they are required to operate & those performing similar duties shall be interchangeable with one another unless otherwise approved.



365-147

PE/ VALVES
BHEL/TRICHY-14TECHNICAL SPECIFICATION FOR GLOBE VALVES OF UP TO AND INCLUDING 2"

4.13) Manufacture of Valves:

4.14.1) Particular care shall be taken to ensure that all flash and unwanted material is properly removed from Forging before the valves manufacture is started.

4.14.2) Valves shall be manufactured strictly in line with the purchase order specifications.

4.14.3) Provision shall be made for suitable lubrication wherever necessary to ensure a smooth easy operation and freedom from undue wear.

5) SHOP INSPECTION AND TESTS:

All quality and stage/ final inspection requirement (minimum) shall be carried out as per the relevant Purchaser approved Quality Plan. However if customer would like to associate for witnessing or verification, the same would be indicated in the QP before manufacturing of valves.

5.1) For body, bonnet and cover, the material test certificates (correlated to heat number) shall be furnished by the vendor for identification and correlation.

5.2) For components like spindle, body seat, disc/ wedge seat hardfacing, back seat bushing, bonnet/ cover bolts and nuts etc. material test certificates (typical) shall be furnished for identification & correlation.

5.3) The valve shall be capable of seat tightness as spelt in the testing standard on closing by hand without lever.

5.4) Minimum NDT requirements extent of check for Pressure retaining parts/components shall be as follows.

5.4.1) Steel Forgings:

- i) 100% MPI and 100% UT on all areas shall be carried out on all forgings for valves.
- ii) Dye penetrate test as per ASTM E165 shall be performed on all machined surfaces of trims.
- iii) Hardness testing shall be done on body seat, disc/wedge facing, spindle, backseat bushing, thrust plate etc. The Purchaser's representative shall also check hardness of random samples.
- iv) 100% Blue matching of seats shall be carried out and records shall be maintained for verification by the purchaser.

5.5) Hydrostatic/ Air tests:

5.5.1) All valves shall be tested hydraulically for strength, tightness of seats and tightness of back seating at the pressures as mentioned in API 598/ BS EN 12266-1.

5.5.2) Globe valve seats shall also be tested on air at a pressure of 6 kg/cm².



365-147

PE/ VALVES
BHEL/TRICHY-14

TECHNICAL SPECIFICATION FOR GLOBE VALVES OF UP TO AND INCLUDING 2"

5.6) Duration of the tests:

5.6.1) The duration of test, leakage rate/ acceptance criteria are as per relevant testing standard.

5.7) Dimensional and functional checks shall be carried out.

5.8) Valves coming under the purview of IBR shall be inspected by Independent Inspecting Authority approved by Indian Boiler Board and the test certificate in IBR form III-C duly countersigned by IBR approved authority shall be submitted. All the valves shall also be inspected by the Purchaser's representative.

5.9) The cleaning and painting procedure shall be drawn by the supplier and submitted for Purchaser's approval.

5.10) Cleaning and protection for dispatch:

5.10.1) Machined surfaces shall be suitably protected.

5.10.2) Valves shall be protected by means of polythene caps / rubber and protectors to prevent damage to ends & also to avoid foreign material entering the valve while shipment and storage.

5.10.3) All the valves shall be packed suitably in wooden cases in order to avoid damage during transit and also during storage at site.

5.10.4) Valve tag nos. shall also be incorporated in all the dispatch documents.

6) DATA/ DOCUMENTS/ DRAWINGS TO BE FURNISHED:

6.1) Relevant drawings / leaflets for the offered valves showing following information:

6.1.1) Complete cross sectional arrangement of the valve. Vendor shall specify the valve overall length, height (both open & closed condition) in addition to other general dimension and weight of valves in their GA drawings.

6.1.2) Binding dimensions, dismantling clearances & weights.

6.1.3) The vendor shall specify the Cv values for the valves offered.

6.1.4) Bill of material incorporating all the materials of construction of various parts along with IS/ ASTM/ ASME standards to which the materials confirm.

6.1.5) Special features, if any, as called in the specific requirements.

6.2) Relevant catalogue/ leaflet of the offered valves.



365-147

PE/ VALVES
BHEL/TRICHY-14TECHNICAL SPECIFICATION FOR GLOBE VALVES OF UP TO AND INCLUDING 2"

6.3) Storage, operation and maintenance manual for valves and actuators (one copy of this shall be enclosed with the packing slip / wooden cases so that at receiving end care can be taken for proper storage & commissioning) after award of contract.

6.4) Quality Plan

6.5) Special Tools & Tackles And Special Equipment

Bidder shall submit with the equipment, complete set of all special tools & tackles & special equipment required for site erection, assembly, disassembly and proper maintenance of valves.

6.6) Spare Parts For Erection & Commissioning

It will be the responsibility of the bidder to provide all commissioning spares required for initial operation till satisfactory completion of the trial operation. One set of seal kit (packing rings and gaskets) to be supplied along with Valves.

6.7) Spare parts for 3 years of operation

Recommended spare parts list for 3 years of operation shall be furnished for each valve and actuator. Detailed list of spare parts with item no. shall be furnished in the O&M manual. Bidder shall indicate price of each spare part separately. BHEL reserves the right to order any or all of the components/items/quantity offered as recommended spares.

6.8) Drawings / documents submission schedule:

The mere approval of documents like drawings, data sheets, wiring diagrams, actuator sizing calculations, flow calculations, etc., will not however relieve the suppliers from meeting our specification requirements, relevant product and testing standard requirements and general accepted engineering principles. Ultimately the valves have to perform satisfactorily at the service conditions and at the end user place.

7) DEVIATIONS:

7.1) If the bid submitted has got any deviation from the technical stipulation in the tender document, the Tenderer shall tabulate in the appropriate "schedule of deviation" furnishing full particular of such deviations. Deviations are to be furnished with specific mention to clause number. Only such deviations will be discussed and resolved. Reasons/ explanation for such deviations shall be furnished. Any other notes/ comments viz. "refer to forwarding letter" etc. is not acceptable.

7.2) Even if there is no deviation from the tender document, the Tenderer shall submit the deviation form and indicate as "no deviations".

8) GURANTEE:

The complete system shall be guaranteed for 24 months of trouble free performance from the date of shipment or 18 months from commissioning date whichever is earlier. In case of any failure or trouble reported from site, the supplier shall depute their representative immediately to attend the problem and replace the defective components/parts, if required.

9) BREAK UP FOR SUPPLY OF GLOBE VALVES:

S. No.	EQUIPMENT	PART NO.	QTY/ UNIT
1	1"-PR164.4KG/SC-T735D.C-GLV-INCONEL-SW-H	979990260000	2 No.
	1/2"-PR164.4KG/SC-T735D.C-GLV-INCONEL-SW-H	979990380000	6 No.
2	Special Tools & tackles required for 1 No. of equipment offered against S.No. 1 above	---	1 SET
3	Spares parts for erection and commissioning	---	1 SET
4	Spare parts for 3 years of operation	---	1 SET

* 1 SET shall consist of spares required for each of Equipment offered against S.No. 1 above.

10) RECORD OF REVISIONS:

Rev 00: First Release

Rev 01: Break up for supply of Globe valves included.

Rev 02: Inconel material removed from title & ½" valve included.



365-147

PE/ VALVES
BHEL/TRICHY-14TECHNICAL SPECIFICATION FOR GLOBE VALVES OF UP TO AND INCLUDING 2"**Annexure - I**

S. NO.	VALVE TYPE	PIPE MATERIAL / SIZE	SIZE (NPS)	VALVE MATERIAL	PRESSURE	TEMP	QTY	Mode of operation
					[kg/cm ² (g)]	(°C)		
1	GLOBE VALVE	UNS N06617 Dia 33.4 x 9.09	1"	UNS N06617	164.4	735	2	Hand
2	GLOBE VALVE	UNS N06617 Dia 21.3 x 4.78	1/2"	UNS N06617	164.4	735	6	Hand



BHARAT HEAVY ELECTRICALS LTD

VALVES PURCHASE

Trichy - 620 014. India

GENERAL TERMS AND CONDITIONS

1. QUOTATIONS:

- a. BID system: The offers are invited in Three part bid system (Part I-Pre Qualification Bid- Part II will be Techno-commercial bid and part III will be Price Bid).

Techno-commercially suitable vendors alone will be intimated for price bid opening.

- b. Submission of tender:

i. E-Procurement: The bidder shall submit the bid online in BHEL e-Procurement portal at "<https://bheleps.buyjunction.in>

The bidder would be required to register on the above e-procurement portal for submitting their bids. Offers through mail and Hardcopies are not acceptable.

ii. Non- Procurement: Each offer should be sent in double cover separately and the same should be sealed and super scribed with correct Tender No., item of supply and due date of opening. Two or more quotations should not be sent in one cover. Price Bid should contain only Price in Rs per unit for each type. Tender should sent to the below mentioned address:

The Tender Opening Cell / Valves

Room No. -26, Building -24

Bharat Heavy Electricals Limited

Tiruchirappalli - 620014, Tamilnadu, India

Or

Email ID: tender_cell@bheltry.co.in

- c. Late tenders: Tender received after 2.00 pm on due date will be considered as Late tender. Late tenders will not be considered under any circumstance.
- d. Regulations: Tenders should be free from CORRECTION AND ERASURES. Corrections if any must be attested. All amounts shall be indicated both in words as well as figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.
- e. PVC: Price Variation clause not acceptable. Prices should be firm.
- f. Catalogue: Manufacturer's name, Trade Mark or Patent No. if any should be specified. Illustrative leaflets giving technical particulars are required along with quotation.
- g. Samples: Samples should be submitted separately if specially requested in tender before due date of the enquiry. They should be clearly marked with the enquiry No and date on the outside cover to facilitate identification.
- h. GST Number: GST registration number, HSN number (Item wise) with applicable taxes should be mentioned in quotation. If the vendor is not GST registered the offer is liable for rejection.
- i. Deviation. Any deviations from the specification are to be furnished separately as "Schedule of Deviation". If there is no deviation vendor should indicate "No Deviation".
- j. Confirmation: Confirmation for compliance is to be given in the offer for all the techno commercial conditions specified in the specification.

2. COMMERCIAL TERMS & CONDITIONS:

- a. Terms of Payment:

For Indigenous Suppliers: 100% after 45 days on satisfactory receipts and acceptance of material at BHEL stores/ Site acknowledgement.

Any deviation in the above payment terms except payment through LC/Advance will attract loading as "Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidder. Offers of indigenous Suppliers



BHARAT HEAVY ELECTRICALS LTD

VALVES PURCHASE

Trichy - 620 014. India

GENERAL TERMS AND CONDITIONS

with payment terms as CAD at site, Confirmed LCs, Advance payment or any other payment terms are liable for rejection.

For Import Supplies: Payment term is 100% payment on CAD basis after 45 days from the date of receipt of documents, specified in PO, at BHEL bank. Respective bank charges to respective account.

Any deviation in the above payment term will attract loading as "Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.

In case of Usance LCs the loading will be considered @ 1.5% on the offered Value. For unconfirmed LC at sight the loading will be considered @ 3.5% on the offered Value. CAD at site, Confirmed LCs, Advance payment or any other payment terms are liable for rejection.

- b. Liquidated Damage: Liquidated damages shall be 0.5% of the total order value or part thereof subject to a maximum of 10% of the total order value. For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value.

Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value)

Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contractors. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number.

- c. Delivery Terms:

For Indigenous Suppliers: FOR BHEL Trichy inclusive of freight and insurance

For import Supplies: CFR/CIF Chennai seaport as per incoterm 2010

- d. Validity of Offer: Prices should be valid for period of 120 Days from the date of tender opening.
- e. Delivery period: Delivery schedule shall be strictly as per BHEL tender requirement which are as indicated against each item in our tender. If supplier offers more than the required delivery period BHEL will operate 0.5% loading factor for evaluation of their offer for every week.
- f. Risk Purchase: The purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of seller either the whole of goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefore. Supplier shall be liable for any loss which the purchaser may sustain by reason for such risk purchases in addition to penalty at the rate mentioned in clause 2 b above. Non acceptance to risk purchase clause the offer is liable for rejection.
- g. Guarantee Clause: The vendor shall give a guarantee for the performance of his supplies for a period of as mentioned in "Confirmation to the Terms and Conditions" attached. Offers without guarantee clause are liable for rejection.
- h. Miscellaneous: Any conditions which might have been quoted by the seller and are in contravention to the terms of PO and which have not been specifically accepted by Purchaser will not be applicable to the contract/PO.
- i. Performance Bank Guarantee: If tender Calls for Performance Bank Guarantee, Vendor should provide a performance bank guarantee (PBG) in BHEL format for 10% of the total Purchase order value valid for warranty/guarantee period with an additional claim period of 2 months. PBG should be issued from list of consortium banks.

3. Compliance / Acceptance required for following points to ensure Input Tax Credit

- a. Supplier shall mention their GSTN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.



BHARAT HEAVY ELECTRICALS LTD

VALVES PURCHASE

Trichy - 620 014. India

GENERAL TERMS AND CONDITIONS

- b. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).
- c. A declaration to the effect that all invoice particulars are/were uploaded in the GSTN network/ portal & all tax liability as per GST rules and regulations have been and will be discharged, shall be mentioned in the invoice. If not mentioned in the invoice, a separate declaration shall be submitted as per the requirement of BHEL.
- d. All documents like Mill Test Certificate, LR copy, Guarantee/Warranty certificate, work completion certificate, any other document mentioned in PO, shall be sent along with the vehicle/consignment. For all consignments received within the calendar month, input credit will be availed within that month in line with monthly returns filing cycle. In case of any discrepancy in the document or non-submission of documents mentioned in the PO, then BHEL will not be able to accept or account the material, in such case availing of tax credit will be deferred to next month or so.
- e. In case of discrepancy in the data uploaded by supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note (details to be uploaded in GSTN portal) for the shortages or rejections in the suppliers, within the calendar month notified by BHEL.
- f. For any such delay in availing of tax credit for reasons attributable to supplier (as mentioned above), interest (calculated @ SBI Base Rate + 6%) along with penalty (if any) will be deducted/recovered for the delayed period i.e. from the month of receipt till the month tax credit is availed, from the running bills.

4. Special Provisions for Micro and Small Enterprises (MSE):

- a. 20% of the tendered quantity is earmarked for MSE suppliers in this tender.
- b. Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs.
- c. In case MSE vendor participating in the tender quotes within the price band of LI +15%, they will be allowed to supply the portion of the requirement subject to acceptance of LI price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately.
- d. MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (Two years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with CA certificate applicable for the year, certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.

3. GENERAL CONDITIONS

- a. BHEL reserves the right to finalize the tender as per item sl no wise or as a total package or project wise. Separate orders will be released for each project and documents should be supplied for each order separately.
- b. BHEL reserves the right to increase or reduce or split the Tender Quantity and to NOT to order for some or all material based on the changes in project.
- c. BHEL shall have the right to visit vendor works during the execution of contract along with end customer for verifying status, inspection and testing of the material.
- d. BHEL reserves the right to negotiate or re-float the tender in case the quoted prices are not acceptable.
- e. Supplier shall arrange packing to avoid lose or damages during Road Transport, Site handling & Storage.
- f. BHEL reserves the right to finalize the tender either through price bid opening or through Reverse Auction route.
- g. BHEL reserves the right to reject the offer of a particular bidder due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / units.



BHARAT HEAVY ELECTRICALS LTD

VALVES PURCHASE

Trichy - 620 014. India

GENERAL TERMS AND CONDITIONS

- h. The Drawings and Technical documents given in this enquiry are the sole property of BHEL. This should not be misused in any form.
- i. Purchase Order, PO Item SI No, Material code, Quantity should be clearly marked on the packing
- j. Confirmation for compliance is to be given in the offer for all the conditions specified above and to the respective Purchase Specification.
- k. If any supplier is not honouring their own quotation or any of its conditions within the validity period, the action will be taken against those suppliers in line with "Guidelines for suspension of business dealings with suppliers/contractors" (refer www.bhel.com)

4. DOCUMENTATION:

a. With Consignment:

- One set of Non Negotiable Documents, O&M Manual, packing list, Fumigation Certificate.

b. Through Bank: All originals in Triplicate, material description in all documents shall be exactly as indicated in PO. ☐ Bill of lading /Airway Bill and Certificate of Origin.

- The invoice indicating the Unit price & total price.
- Packing List contains quantity, net & gross weight of each item, packing dimensions, PO, Item SI No.
- Inspection test certificates as per PO, Guarantee/warranty certificates.
- Original Performance Bank Guarantee in the BHEL format from list of consortium bank, If applicable

c. To Purchase: In soft copy

- Copy of All Test Certificates as per purchase order.
- Certificate that materials shipped and shown in the packing list are not less than that invoiced.
- Copy of Non-negotiable documents

d. Identification: Material code, Purchase Order, PO item SI No, Unique SI No if any should be provided in all despatch documents, materials and packing clearly.

5. TENDER EVALUATION:

Part I-Pre Qualification Bid-

- All Vendors should submit supply record, end user certificate and PO reference, catalogue etc...
- Vendor who are not registered in BHEL Trichy Product Material Directory (PMD) should register online in <http://supplier.bhel.in/> and should submit copy of online registration form wit part I bid.
- BHEL reserves right to visit vendor works before registration for verification of facilities.
- Vendor who doesn't have manufacturing capacity/capabilities/credentials will be rejected.

PART II Techno-commercial Bid.

- All vendors should submit General arrangement drawing, datasheet and C&I diagram of the offered product
- Point by point technical confirmation of all pages of our technical specifications and commercial conditions are required with your sign and seal along with techno commercial Offer.
- Filled Annexure 4A and Annexure 4B should be submitted.
- IBR certification of the factory should be confirmed with the offer.
- Offers from supplier not having technical capability or not agreed for commercial terms, will be rejected

PART III Price Bid.

- Bidders qualified for both part I and part II will be intimated for participating in priced bid opening/Reverse Auction.
- L1 bidder will be decided based on landed cost for the equipment to BHEL.
- Price Bid should be in BHEL format Annexure 4C
- For evaluation, the exchange rate shall be taken as TT selling rate of SBI on date of Part-1 bid opening.

Note: PART I and PART II will be opened together at time of tender opening



Bharat Heavy Electricals Ltd.

Valves Purchase
Trichy - 620 014. India

BHEL Enquiry: ENSFV00179 Dt 06.09.2017

Sl No	<u>BHEL COMMERCIAL TERMS AND CONDITIONS for INDIGENOUS SUPPLIES</u>	Vendor's Confirmation
1	Vendor should give confirmation to BHEL's Technical Specification. Any deviations from the specification are to be furnished separately as "Schedule of Deviation". If there is no deviation vendor should indicate "No Deviation".	
2	Vendor to indicate Quoted/Not Quoted item wise.	
3	Prices shall be quoted item wise only.	
4	Delivery Term <u>For Indigenous Suppliers:</u> FOR BHEL Trichy inclusive of freight and insurance <u>For import Supplies:</u> CFR/CIF Chennai seaport as per incoterm 2010 Prices shall be quoted on " FIRM PRICE " basis only.	
5	Validity of offer shall be 120 Days from the date of tender opening.	
6	Delivery period should be 12 weeks from the date of purchase order.	
7	Liquidated damages @ ½% per week subject to a maximum of 10% of the order value shall be applicable for delay in deliveries.	
8	Following Risk Purchase clause shall be applicable: The Purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated or if the same were not available, the best and the nearest available substitute therefore. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.	
9	Payment terms <u>For Indigenous Suppliers:</u> 100% after 45 days on satisfactory receipts and acceptance of material at BHEL stores/ Site acknowledgement. <u>For Import Supplies:</u> Payment term is 100% payment on CAD basis after 45 days from the date of receipt of documents, specified in PO, at BHEL bank. Respective bank charges to respective account	
10	GST No along with HSN code should be mentioned in the offer and the GST benefit (If any) shall be passed on to BHEL.	
11	Any warranty replacement during warranty period shall be supplied free of charge on FOR Site basis/destination specified by BHEL.	
12	The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals as called for in the Technical Specification, in the required number of copies at no extra cost.	

NOTE: -

- It is confirmed that all the terms and conditions stipulated in the Enquiry have been fully understood by us and all clarifications & details have been obtained.
- Specific acceptances to BHEL Payment terms, LD and Risk Purchase Clause are essential for consideration of offer. Otherwise offer is liable for rejection.
- In case any changes in taxes and duties as per government notification (including GST), the same shall be applicable from time to time.

Signature & Office Seal of the vendor

SCHEDULE OF DEVIATIONS

Enq Ref: ENSFV00179

Offer Ref:

Date:

Commercial Deviation:

Annexure / Clause No.	Description	Supplier Deviation

Technical Deviation:

Annexure / Clause No.	Description	Supplier Deviation

We confirm acceptance of all the Technical and Commercial requirements as per BHEL Tender, except the above deviations.

Signature with Seal

(TO BE STAMPED IN ACCORDANCE WITH STAMP ACT AND THE EXPIRY DATE OF BG MUST BE AFTER 60 DAYS FROM THE DATE OF COMPLETION OF WARRANTY PERIOD)

PERFORMANCE BANK GUARANTEE

In accordance of M/s. Bharat Heavy Electricals Limited (A Government of India undertaking, a company incorporated under the Companies Act 1956 having its Registered Office at "BHEL House", SIRI Fort, New Delhi 110 049) through its High Pressure Boiler Plant Division located at Tiruverumbur, Tiruchirapalli- 620 014 (hereinafter called 'the Company') having entered into a contract withhereinafter called ' the said contractor ' which term includes 'suppliers' for the purpose of this Bond and under the terms and conditions of the contract No..... Dt Between BHEL, Trichy and as per the contract, the contractor / supplier is to furnish a performance Bank guarantee for Rs. for the due performance of the equipment to be supplied under the above referred contract and for the fulfillment of all the terms and conditions of the contract, We(indicate the name of the bank) (herein after referred to as the bank) at the request of (Contractor(s)) do here by undertake to pay the company an amount not exceeding Rs.....against any loss or damage caused to or suffered or would be caused to or suffered by the company by reason of any breach by the said contractor (s) of any of the terms and conditions contained in the said agreement.

2. We(indicate the name of the bank with full address), do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said Contractor(s) of any of the terms and conditions contained in the said Agreement or by the reason of the contractor(s) 'failure to perform' the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs._____.

3. We undertake to pay unconditionally to the Company any money so demanded notwithstanding any dispute(s) raised by the Contractor in any suit, or proceedings pending before any Court or Tribunal or Arbitration or before any other authority relating thereto our liability under this present being absolute and unequivocal. The payment under this guarantee would not wait till the disputes have been decided by any Court or Tribunal or in the arbitration proceedings or by any other authority. The payment so made by us under this Bond shall be a valid discharge of liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

4. We.....(indicate the name of Bank), further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till _____Office / Department/ Division of the Company certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

5. (I) Unless a demand or claim under this guarantee is made on us in writing on or before the _____ we shall be discharged from all the liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date, the claim shall be enforceable notwithstanding the fact that the said enforcement is effected after the said date.

(ii) For the purpose of this clause, any letter making demand on the Bank by M/s. BHEL dispatched by Registered Post with Ack.Due or by Telegram or by any Electronic media addressed to the above mentioned address of the Bank shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the bank personally.

6. We(indicate the name of Bank), further agree with the company that the Company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the company or any indulgence by the company to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating would, but for this provision, have effect of not so relieving us.

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

8. It shall not be necessary for the company to proceed against the contractor before proceeding against the guarantor-bank and the guarantee herein contained shall be enforceable against them notwithstanding any security, which the company may have obtained or obtain from the Contractor shall, at the time when proceedings are taken against the guarantor hereunder be outstanding or unrealised.

9. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirapalli.

10. The guarantor hereby declare that it has power to execute this guarantee and the executant has full powers to do so on its behalf under the proper authorities granted to him/them by the guarantor.

11. We(indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the company in writing.

In witness whereof we....., (indicate the name of Bank) have hereunto setout Bank Seal the _____ day _____ month 200

BANK E-MAIL ID:

BANK PHONE NO.

BANK FAX NO:

					Annexure 4
		BHEL Enquiry No. & Date	Vendor's Offer Ref No. & Date		
		ENSFV00179			
		MODEL UNPRICE BID FORMAT			
		Currency			
Enq SI No.	Material Code	Description	Unit	Qty	Quoted/Not Quoted
1	979990260000	1"-PR165KG/SC-T735D.C-GLV-INCONEL-SW-HO		2	Quoted/Not Quoted
		OPERATIONAL SPARES FOR 3 YEARS, AS BELOW			
		STEM - DISC ASSEMBLY		2	Quoted/Not Quoted
		YOKE BUSH		2	Quoted/Not Quoted
		SET OF PACKING RINGS		2	Quoted/Not Quoted
		GASKET		2	Quoted/Not Quoted
		ERECTION AND COMMISSIONING SPARES AS BELOW			
		SET OF PACKING RINGS		2	Quoted/Not Quoted
		GASKET		2	Quoted/Not Quoted
		ANY OTHER SPARES RECOMMENDED BY SUPPLIER		2	Quoted/Not Quoted
2	979990380000	1/2"-PR165KG/SC-T735DC-GLV-INCONEL-SW-HO		6	Quoted/Not Quoted
		OPERATIONAL SPARES FOR 3 YEARS, AS BELOW			
		STEM - DISC ASSEMBLY		6	Quoted/Not Quoted
		YOKE BUSH		6	Quoted/Not Quoted
		SET OF PACKING RINGS		6	Quoted/Not Quoted
		GASKET		6	Quoted/Not Quoted
		ERECTION AND COMMISSIONING SPARES AS BELOW			
		SET OF PACKING RINGS		6	Quoted/Not Quoted
		GASKET		6	Quoted/Not Quoted
		ANY OTHER SPARES RECOMMENDED BY SUPPLIER		6	Quoted/Not Quoted
		CFR Value in Currency			Quoted/Not Quoted
		Validity of Price			
		Consignment Package Details			
		Approximate Net / Cross Weight in Kgs			
		Dimension of Consignment			
		Delivery date from the date of Purchase Order			
Signature & Seal of Vendor					
		NOTE:			
		1 The Unpriced Bid should be submitted strictly in line with the above FORMAT			
		2 Adequacy of spares will be determined before ordering			

					Annexure 5
		BHEL Enquiry No. & Date	Vendor's Offer Ref No. & Date		
		ENSFV00179			
		MODEL UNPRICE BID FORMAT			
		Currency			
Enq Sl No.	Material Code	Description	Unit	Qty	Unit Price
1	979990260000	1"-PR165KG/SC-T735D.C-GLV-INCONEL-SW-HO		2	
		OPERATIONAL SPARES FOR 3 YEARS, AS BELOW			
		STEM - DISC ASSEMBLY		2	
		YOKE BUSH		2	
		SET OF PACKING RINGS		2	
		GASKET		2	
		ERECTION AND COMMISSIONING SPARES AS BELOW			
		SET OF PACKING RINGS		2	
		GASKET		2	
		ANY OTHER SPARES RECOMMENDED BY SUPPLIER		2	
2	979990380000	1/2"-PR165KG/SC-T735DC-GLV-INCONEL-SW-HO		6	
		OPERATIONAL SPARES FOR 3 YEARS, AS BELOW			
		STEM - DISC ASSEMBLY		6	
		YOKE BUSH		6	
		SET OF PACKING RINGS		6	
		GASKET		6	
		ERECTION AND COMMISSIONING SPARES AS BELOW			
		SET OF PACKING RINGS		6	
		GASKET		6	
		ANY OTHER SPARES RECOMMENDED BY SUPPLIER		6	
		CFR Value in Currency			
		Validity of Price			
		Consignment Package Details			
		Approximate Net / Cross Weight in Kgs			
		Dimension of Consignment			
		Delivery date from the date of Purchase Order			
Signature & Seal of Vendor					
		NOTE:			
		1 The Priced Bid should be submitted strictly in line with the above FORMAT			
		2 Adequacy of spares will be determined before ordering			