

 434-003/A	ENQUIRY VALVES	Bharat Heavy Electricals Limited (A Government of India undertaking) HIGH PRESSURE BOILER PLANT PURCHASE DEPARTMENT/VALVES TIRUCHIRAPPALLI-620 014.		Phone: +91 (431) 257 7096/4047 Email: sivabala@bhel.in kathir@bhel.in
		ENQUIRY NO.	DATE	DUE DATE FOR QUOTATION
		ENSHP00675	08.06.2018	03.07.2018
		Please quote Enquiry No., and due date in correspondences <i>This is only a request for quotation and not an order.</i>		
<u>Date, Time & Venue of tender opening:</u> 03.07.2018 at 14.30 Hrs. at The Tender Opening Cell/Valves Room No. -26, Building -24 Bharat Heavy Electricals Limited Tiruchirappalli - 620014, Tamilnadu, India Email: tender_cell@bheltry.co.in		<u>Scope of supply</u> Supply of Hydraulic Actuator and Accessories as per the purchase specification enclosed. -List of Annexures 01. Annexure 0A - SCOPE OF SUPPLY 02. Annexure 1A - SPEC:HP:0060 Rev:05 03. Annexure 1B - QP FORMAT 04. Annexure 2A - GENERAL TERMS AND CONDITIONS 05. Annexure 2B - SPECIAL TENDER TERMS 06. Annexure 2C - CONFIRMATION TO THE TERMS AND CONDITIONS 07. Annexure 4A - SCHEDULE OF DEVIATIONS 08. Annexure 4B - UNPRICED FORMAT IMPORT 09. Annexure 4C - PRICED BID FORMAT IMPORT		
The rate of Taxes, Prevalent on the date of quotation, should be clearly indicated in the quotation itself. Please, submit your lowest quotation 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) Quotations 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 Sivabala Shanmugam Sr. Engineer/Purchase/Valves	

ANNEXURE 0A
SCOPE OF SUPPLY

<u>ENSHP00675 - SCOPE OF SUPPLY</u>			
Material Code	Material Description	Qty	Specification No
964613450000	HYD ACTUATOR AND ACCESSORIES-AUSC HPBV	1	SPEC:HP:0060
	TOTAL	1	

ANNEXURE 1A
SPECIFICATION
SPEC:HP:0060 REV:05



365-147/B
31.08.16

BHEL – Tiruchirappalli – 620014,
India

Valves Engineering and R&D

PURCHASE SPECIFICATION

DOC No: **SPEC:HP:0060** Rev: **00**

Effective Date: 10-Mar-18

Page: **1** of **6**

Product: Electro-hydraulic actuators with positioning facility

Revision Record:

Rev. No	Date	Details of Revision
00	10 March 2018	First Release

1. General

This specification covers the requirements for the design, materials, construction details, manufacture, inspection, and testing of double-acting hydraulic actuators along with all the accessories required for positioning the actuator based on the user's demand signal. The offer shall be submitted along with all the documents mentioned in this specification.

1.1. The design, material, construction, manufacture, inspection and testing of actuators shall conform to the latest applicable codes and standards.

1.2. All materials, construction and design of the pressure parts shall conform in all respects to the applicable standards.

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

2. Application

The actuators will be mounted on control valves and will be used to operate the valves using hydraulic oil. Accessories like the final control elements (Servo-Valves / Proportional Valves) will be mounted on these actuators.

3. Scope

Scope of supply shall include electro-hydraulic actuators mounted with the feedback transmitters, control manifolds containing proportional/servo valves and related accessories to meet the requirements of this specification. All the accessories required to couple the actuator to the valve are in the scope of the supplier.

A demand of 4-20mA will be provided by the purchaser. All the equipment required to position the actuator based on the purchaser's signal shall be in the scope of the supplier.

4. Design

4.1. General

4.1.1. Fabricated cylinders are NOT acceptable. No component shall be screwed or welded to the cylinder to form mounting faces for accessories. Material of construction of yoke, piston rod and other components coming into direct contact with the valve shall be selected to withstand a temperature of 650° C. Temperatures to which the other components will be subjected to shall be calculated by the supplier and the components shall be made of suitable material.



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Product: Electro-hydraulic actuators with positioning facility

- 4.1.2. The actuator shall be capable of providing 65,300 kgf of force.
- 4.1.3 The maximum stroke of the actuator shall be 80 mm. It should be possible to restrict the stroke of the actuator depending on the requirements of individual project.
- 4.1.4 Hydraulic oil before the actuator manifold will be varying between 180 bar to 210 bar. The actuator shall be capable of withstanding the variations in oil pressure and simultaneously providing sufficient force to keep the valve tightly closed.
- 4.1.5 The distance from the actuator yoke mounting face on the valve to the top of the valve stem at the actuator coupling end is 280mm, when the valve is in closed position. The overall height of the actuator yoke shall be suitably designed.
- 4.1.6 The yoke should be suitable for mounting on a flange with a PCD of 575mm using 16xM30 HSH Cap screws. The threaded length of the M30 holes in the yoke shall be 55mm.
- 4.1.7. Necessary provision for venting of air from the top and bottom chambers shall be provided by means of mininess couplings.
- 4.1.8. Suitable lifting hooks shall be provided for handling of these actuators.
- 4.1.9 For all actuators, a drip tray shall be provided to prevent oil from falling on valve body, in case of oil leakage.
- 4.1.10 A 3-micron filter shall be mounted on the control block before the oil enters into the block.
- 4.1.11. Hydraulic actuators are meant for use with 'SERVO CONVAL-46', a mineral oil with viscosity grade ISO VG46.
- 4.1.12. Suitable name plates indicating the S.No. and Year of Manufacture, Manufacturer's name shall be fixed permanently on the actuator.
- 4.1.13 Hydraulic actuators shall have the facility to keep the control valves "stay put" on oil supply failure or electric power failure.
- 4.1.14 The hydraulic actuator shall have two modes of operation. Operation time for the two modes of operation shall be as below:

Fast opening mode : 2-3 sec for full stroke

Opening & Closing mode (modulating control) : 10-12 sec for full stroke

Only one P port and one T port will be made available. Provision shall be made in the control manifold to facilitate the two modes of operation, without any additional ports.

4.1.15 Field mounted junction boxes shall be supplied as per the following specification:

4.1.15.1 No. of ways - 12/24/36/48/64/72/96/128(as applicable) with 20% spares terminals.

4.1.15.2 Material and Thickness - 4mm thick Fiberglass Reinforced Polyester (FRP).

4.1.15.3 Type - Door gasket shall be of synthetic rubber.



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Product: Electro-hydraulic actuators with positioning facility

4.1.15.4 Mounting clamps and accessories - Suitable for mounting on walls, columns, structures etc. The brackets, bolts, nuts, screws, glands and lugs required for erection shall be of brass, included in Bidders scope of supply. Raceways shall be provided inside JBs for proper termination of cables.

4.1.15.5 Type of terminal blocks - Rail mounted cage-clamp type suitable for conductor size upto 2.5 mm². A M6 earthing stud shall be provided.

4.1.15.6 Protection Class – IP-55 minimum for indoor & IP-65 minimum for outdoor applications.

4.1.15.7 Grounding - To be provided.

4.1.15.8 Colour - To be decided during detailed engineering

4.2 C&I Requirements

Vendor shall confirm the following without fail during enquiry stage without which the offer is liable to be rejected.

S.No.	Requirement	Vendor Confirmation
1	Positioner cabinet which positions the valve based on DCS command shall be provided.	
1.1	a) Power Supply requirement AC/DC to be mentioned. b) Cable scope of the same will be in vendor scope.	
3	Complete Interface details with Termination details has to be provided.	
4	Local Operation and Local Indication shall be Provided.	

EQUIPMENT	SIGNAL TYPE FROM DCS	DCS SIGNAL	Requirement	Vendor's remarks
HP BYPASS STEAM VALVES	AO	4-20mA Demand (4mA at 0% opening 20mA at 100% opening)	The offered system shall accept the indicated DCS signal.	



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AI	4-20mA Position Feedback to be provided to DCS	The offered system shall provide the feedback to DCS.	
DO	FAST OPENING	Whether Potential Free/24 VDC/48 VDC Command from DCS to be clarified? If any other voltage, voltage value shall be indicated. Solenoid Current requirement shall be indicated.	

4.3. Spares

4.3.1 COMMISSIONING SPARES

It will be the responsibility of the bidder to provide all commissioning spares required for initial operation till satisfactory completion of the trial operation. Commissioning spares shall include minimum one set each of electrical connectors, gaskets and seals for the actuators, final control elements, hydraulic components like pressure relief valves, filters, one set of filter elements etc., The vendor shall furnish a list of all spares along with the offer and such list shall be reviewed by BHEL and mutually agreed to.

4.3.2 SPARE PARTS FOR 2 YEARS OF OPERATION

Recommended spare parts list for 2 years of operation shall be furnished for the actuator. Detailed list of spare parts with position no. shall be furnished in the O&M manual.

5. Document Requirements

The following documents shall form part of the offer.

- 5.1 Vendor shall submit the list of all the components which are bought from sub-vendors and furnish the make and model of each of the above components along with the offer.
- 5.2 Cross sectional drawings along with material of construction of each component and General arrangement drawing with mounting details
- 5.3 Hydraulic scheme, technical write-up on the function, operation and design features of actuators
- 5.4 Terminal wiring diagrams of the junction boxes



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5.5 All Port Connection sizes, type of hose end connections and diameters for hoses near the actuators

5.6 Catalogs and datasheets of all instruments, proportional valves, solenoids, etc., used

5.7 Valve opening / closing time details.

5.8 Electrical and instrument Load List.

5.9 If the bid submitted has got any deviation from this technical specification, the bidder shall furnish 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.

Even if there is no deviation from the tender document, the Bidder shall indicate as “no deviations”.

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

The following documents shall be provided after placement of order.

5.10 Calculations for temperatures experienced by each component.

5.11 Shipment weight & volume details.

5.12 Equipment preservation procedure during shipment, pre-erection storage period & extended storage period.

5.13 Operation, Maintenance and erection manual consisting of details of hydraulic actuator, final control elements, feedback transmitters, solenoid valves and catalogues for bought out items - 3 soft copies after placement of order. One copy of detailed O&M manual consisting of, but not limited to, vendor manuals, troubleshooting guide, list of spares packed separately must accompany the shipment.

5.14 O&M manual shall include copies of all software required for operating / tuning / maintenance of the components / equipment of HP bypass system. Detailed procedures for calibration / tuning of such components / equipment using the software shall form part of the O&M manual.

5.15 All GA drawings, Test Certificates, Material test Certificates.



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5.16 Bidder shall submit the list of items procured from sub vendors along with their model number and manufacturer details.

5.17 Manufacturing Quality plan shall be submitted for approval.

6. Commissioning at Site

The vendor shall depute their representative at project site for commissioning of the actuator. Charges for commissioning shall be included in the main offer for which the vendor has to provide justification in the offer. These charges shall be comprehensive and shall be inclusive of travel costs, accommodation and all other related expenses. This will be considered for offer evaluation.

Signature		
Name	M. Chaitanya Kumar	Mallemala Sujana Vinod
Designation	Senior Engineer	Deputy Manager
Date	10 March 2018	10 March 2018
Action	Prepared By	Reviewed & Approved By

ANNEXURE 1B

QUALITY PLAN FORMAT

ANNEXURE 2A
GENERAL TERMS &
CONDITIONS



BHARAT HEAVY ELECTRICALS LTD

VALVES PURCHASE

Trichy - 620 014, India

GENERAL TERMS AND CONDITIONS (ENSHP00675)

1. QUOTATIONS:

a. **BID system:** The offers are invited in Two part bid system (Part I will be Techno-commercial bid and part II will be Price Bid). Techno-commercially suitable vendors alone will be intimated for price bid opening.

b. **Submission of tender:**

i. Tender called through E-Procurement mode: The bidder shall submit the bid online in BHEL e-Procurement portal at <https://bhel.abcpurchase.com>

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. Tender called through Non- Procurement mode: 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 per unit for each type. Tender should send to the below mentioned address:

The Tender Opening Cell / Valves
Room No. -26, Building -24
Bharat Heavy Electricals Limited
Tiruchirappalli - 620014, Tamil Nadu, 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 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.



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VALVES PURCHASE

Trichy - 620 014, India

GENERAL TERMS AND CONDITIONS (ENSHP00675)

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 SEA PORT as per incoterm 2010

- d. Validity of Offer:** Prices should be fixed and valid for 120 days from the date of tender opening
- e. Delivery period:** Delivery schedule will be 16 Weeks from the date of PO. If supplier offers more than the required delivery period BHEL will operate 0.5% loading factor for evaluation of their offer for every week delay.
- 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 eighteen months from the date of dispatch or twelve months from the date of commissioning whichever is earlier.
- 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.
- 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.



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Trichy - 620 014, India

GENERAL TERMS AND CONDITIONS (ENSHP00675)

- 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 serial number 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.
- 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 serial number, 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:** Duplicate for transporter copy, Original Invoice, Packing List, Delivery Challan, O&M manual (if applicable) Material Test Certificate, Test Certificates, Compliance Certificate, Guarantee/Warranty Certificate and other documents mentioned in PO/TDC/Drawing.
- b. **Online Submission:** Supplier should upload the soft copy of all Test Certificates in BHEL website <http://vis.bheltry.co.in/vis/index.jsp> at Vendor information system tab.
- c. **To Purchase:**
- i. **FOR BHEL TRICHY case-** Original Invoice, duplicate for transporter copy, Packing list, LWB and Delivery challan.
- ii. **FOR Site case-** Original Invoice, Original LWB, Original Packing List, Original IBR documents, Original despatch clearance Certificate and Inspection report, Test certificates as per PO, Original Site Acknowledgment etc.
- d. **Identification:** Material code, Purchase Order, PO item serial number, Unique serial number if any should be provided in all despatch documents, materials and packing clearly.



BHARAT HEAVY ELECTRICALS LTD

VALVES PURCHASE

Trichy - 620 014, India

GENERAL TERMS AND CONDITIONS (ENSHP00675)

5. TENDER EVALUATION:

a. PART I Techno-commercial Bid.

- i. All vendors should submit General arrangement drawing, datasheet and C&I diagram (If any) of the offered product
- ii. 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.
- iii. Offers from supplier not having technical capability or not agreed for commercial terms, will be rejected.

b. PART II Price Bid.

- i. Bidders qualified for both part I will be intimated for participating in priced bid opening/Reverse Auction.
- ii. L1 bidder will be decided based on landed cost for the equipment to BHEL.
- iii. For evaluation, the exchange rate shall be taken as TT selling rate of SBI on date of Part-1 bid opening.

ANNEXURE 2B
SPECIAL TERMS AND
CONDITONS



BHARAT HEAVY ELECTRICALS LTD

VALVES PURCHASE

Trichy - 620 014, India

SPECIAL TERMS AND CONDITIONS (ENSHP00675)

1. Evaluation will be as **total package** with cost to BHEL which will include Commissioning spares and commissioning assistance.
2. Delivery should be **16 weeks** from date of purchase order and if supplier offers more than this delivery period BHEL will operate 0.5% loading factor for evaluation of their offer for every week delay.
3. **Guarantee Period:** 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, free of cost.
4. **Commissioning Assistance:** Commissioning assistance should be quoted in price bid, Quotation should contain exact value including all expenses like commissioning charges, travel, accommodation etc. Since commissioning requirement and time depends on the equipment supplied by the supplier, number of days required for commissioning should be decided by the vendor for arriving commissioning charges. Vendor have to quote firm price in currency without any variable elements. **Vendor should NOT specify that commissioning charges will be quoted separately.**
5. Offers from vendors with prior experience in design, manufacture, testing and supply of actuators with a design pressure of atleast 250 bar capable of providing atleast 65,000 kgf only will be considered. Vendors shall submit the unpriced PO copy along with proof of supply of such actuators along with the offer."
6. Recommended spare part list for 2 years of operation shall be furnished for the actuator.
7. **Document Required:** The document mentioned in Specification SPEC:HP:0060 Rev 00(Point No: 5) should be attached with the technical bid.

Loading Criteria

1. Any deviation in the payment term will attract loading as mentioned. "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.
2. In the case of Usance LCs the loading will be considered @ 1.5% on the offered Value.
3. For LC at sight the loading will be considered @ 3.5% on the offered Value.
4. Normally CAD at sight, Confirmed LCs and Advance payment are liable for rejection.
5. Any deviation from the LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).

ANNEXURE 2C
CONFIRMATION TO TERMS
AND CONDITIONS



BHARAT HEAVY ELECTRICALS LTD

VALVES PURCHASE

Trichy - 620 014. India

GENERAL TERMS AND CONDITIONS(ENSHP00675)

<u>TERMS & CONDITION</u>	<u>VENDOR CONFIRMATION</u>
a. Terms of Payment: Indigenous Supply: 100% after 45 days on satisfactory receipts and acceptance of material at BHEL stores/ Site acknowledgement. Import Supply: 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. Offers with payment term as Confirmed LC and advance payment will be rejected.	
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.	
c. Delivery Terms: <u>For Indigenous Supplies:</u> FOR BHEL Trichy <u>For import Supplies:</u> CFR/CIF Chennai Sea Port as per incoterm 2010	
d. Validity of Offer: Prices should be valid for 120 days from the date of opening of this tender.	
e. Risk Purchase: Alternatively, 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.	
f. Guarantee Period: 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, free of cost.	
g. Delivery period: Delivery period should be within 16 weeks from date of PO	
h. Commissioning Assistance: Commissioning assistance should be quoted in price bid, Quotation should contain exact value including all expenses like commissioning charges, travel, accommodation etc. Since commissioning requirement and time depends on the equipment supplied by the supplier, number of days required for commissioning should be decided by the vendor for arriving commissioning charges. Vendor have to quote firm price in currency without any variable elements like no of days.	
DOCUMENTATION: Documents mentioned in the specification SPEC:HP:0060 Rev 00 should be part of tender for evaluation, failure to submit this details for evaluation, you offer will be liable for technical rejection.	

ANNEXURE 4A
SCHEDULE OF DEVIATION

SCHEDULE OF DEVIATIONS

Enq Ref:

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

ANNEXURE 4B
UNPRICED BID FORMAT

UNPRICE BID MODEL

BHEL Enquiry no
Vendor Quotation No

Enquiry Sl. No	Material Code	Material Description	Quantity	Unit Of Measurement	Currency	Response
1	964613450000	HYD ACTUATOR AND ACCESSORIES-AUSC HPBV	1	SET		Quoted/ Not Quoted
		Total CIF CHENNAI/ FOR BHEL TRICHY Value				Quoted/ Not Quoted
		Commissioning charges				Quoted/ Not Quoted
Validity of Price						
Consignment Package Details						
Approximate Net / Cross Weight in Kgs						
Dimension of Consignment						

Signature & Seal of Vendor

NOTE: The Unpriced Bid should be submitted strictly in line with the above FORMAT

ANNEXURE 4C
PRICED BID FORMAT

PRICE BID MODEL

BHEL Enquiry no
Vendor Quotation No

Enquiry Sl. No	Material Code	Material Description	Quantity	Unit Of Measurement	Currency	Unit Price in Value	Total Value
1	964613450000	HYD ACTUATOR AND ACCESSORIES-AUSC HPBV	1	SET			
		Total CIF CHENNAI/ FOR BHEL TRICHY Value					
		Commissioning charges					

Signature & Seal of Vendor

NOTE:The Price Bid should be submitted strictly in line with the above FORMAT