

 BHEL 432-003	ENQUIRY VALVES	Bharat Heavy Electricals Limited (A Government of India undertaking) HIGH PRESSURE BOILER PLANT PURCHASE DEPARTMENT/VALVES TIRUCHIRAPPALLI-620 014.	Phone:0431-257 7252/7137 Email: tender_cell@bheltry.co.in npkumar@bheltry.co.in pldeo@bheltry.co.in
	ENQUIRY NO.	DATE	DUE DATE FOR QUOTATION
	E-SSV-1206	20.11.2015	28.12.2015
	Please quote Enquiry No., and due date in all correspondences. This is only a request for quotation and not an order.		
<u>Date , Time & Venue of tender opening :</u> 28.12.2015 at 14.30 Hrs. at The Tender Opening Cell / Valves Room No. 26, Building -24 Bharat Heavy Electricals Limited Tiruchirappalli - 620014, Tamilnadu, India	<u>Scope of supply</u> Supply of SILENCERS as per the drawings/standards/TDC enclosed. List of Annexures Annexure 1A- Scope of Supply Annexure 1B- Drawings/Standards & TDC Annexure 2- Terms & Conditions Annexure 3- Schedule of Deviation Format Annexure 4 A- Unpriced format Annexure 4 B- Priced format Annexure-5 – Commercial Terms & Conditions to be filled in by vendor Note: Only manufacturers are requested to quote for this enquiry.		
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 subjected to our terms and conditions, so as to reach us on or before the due date. (Latest by 14.00 Hrs. (IST) on the due date). The offers 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.	<p style="text-align: center;">Yours faithfully, For Bharat Heavy Electricals Ltd</p> <p style="text-align: center;">N.Pradeep Kumar ADO/Purchase/Valves</p>		



434-003

BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
 HIGH PRESSURE BOILER PLANT
 PURCHASE DEPARTMENT / VALVES
 THIRUCHIRAPALLI - 620014
 TAMILNADU (INDIA)

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PHONE :91-431-2577305
 GRAMS : BHARATELEC
 FAX NO: 91-431-2520383
 E-mail : valpur@bheltry.co.in
 WEB : http://mm.bheltry.co.in

Vendor Code : 23505 Vendor Name : M/S Open Tender Dummy Code	Enquiry No E-SSV-1206	Enquiry Date 20.11.2015	Due Date for Quotation 28.12.2015
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order			

Item	Description	Unit	Delivery Quantity	Schedule Date
10	974611040000 SILENCER BARH-STAGE I MS LINE SV SPC:-SPEC:SV:027/01	NO	6.00	05.01.16
20	974611050000 SILENCER BARH-STAGE I HRH LINE ERV-HE SPC:-SPEC:SV:027/01	NO	6.00	05.01.16

General Note:

The 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 <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.

The offers should reach us before the time of opening the tenders. The offers will be opened at 14.30 hours on the due date in the presence of the tenderers who may like to be present . Late tenders are liable to be rejected .	Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED MANAGER / PURCHASE / VALVES
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PURCHASE SPECIFICATION OF VENT SILENCER FOR M/s. NTPC, BARH STG I

1.0 SCOPE:

THIS STANDARD COVERS THE TECHNICAL REQUIREMENTS OF VENT SILENCER MOUNTED ON THE DOWNSTREAM OF SAFETY VALVE. THE DESIGN FOR PERFORMANCE, MECHANICAL DESIGN AND EXTERNAL DIMENSIONS SHALL BE AS PER MANUFACTURER'S STANDARD PRACTICE.

2.0 SERVICE:

THE SILENCER SHALL BE DESIGNED FOR FULL FLOW CONDITION OF STEAM WHICH EXISTS WHEN THE SAFETY VALVE POPS UP. TECHNICAL PARAMETERS FOR SILENCER SIZING IS GIVEN IN THIS SPECIFICATION. THE SILENCER SHALL ATTENUATE THE NOISE GENERATED BY THE DISCHARGE TO ATMOSPHERE TO A PERMISSIBLE NOISE LEVEL INDICATED IN SPEC.

3.0 TECHNICAL DATA :

Silencer Material Code	974611040000	974611050000
Silencer Tag No	10/20/30 LBA11BS003, 10/20/30 LBA12BS003	10/20/30 LBB11BS001, 10/20/30 LBB12BS001
Quantity	6 nos.	6 nos.
Valve Upstream Pressure & Temperature	269.8 kg/cm ² (g) & 546°C	50.0 kg/cm ² (g) & 574°C
Silencer Design Pressure (kg/cm ² (g))	4.4	3
Silencer Design Temperature (°C)	408	550
Steam Flow Rate (tph)	1168	523.8
Medium	Superheated steam	Superheated steam
Inlet Pipe Size	OD 846 x 7.92 (P22)	OD 711 x 7.92 (P22)
Required Noise level	Less than 115dBA at 1Mtr. Distance from silencer	Less than 115dBA at 1Mtr. Distance from silencer
Pressure Drop	Vendor to furnish	Vendor to furnish
Outlet	Open to Atmosphere	Open to Atmosphere
Service	Intermittent	Intermittent
Insertion Loss	Vendor to provide	Vendor to provide

3.1 MATERIAL OF CONSTRUCTION

- A) ALL METALLIC PARTS INTERNAL AND EXTERNAL INCLUDING FLANGES SHALL BE MADE OF MATERIAL SUITABLE FOR THE GIVEN SILENCER DESIGN PARAMETERS.
- B) FIBER GLASS WOOL SHALL BE USED FOR ACOUSTIC FILLING.
- C) THE SILENCER SHALL BE SUITABLY PROTECTED BY PAINT AGAINST CORROSION
- D) INSTALLATION POSITION : VERTICAL
- E) INSTALLATION LOCATION : OUTDOOR.
- F) SPECIAL REQUIREMENT : THE SILENCER SHALL BE PROVIDED WITH WEATHER-HOOD AND SS MESH TO PROTECT AGAINST BIRDS.

Date	Altered	Rev	Date	Altered	RR	Name	Signature
02	Chd & Appd	01	13.11.15	Chd & Appd.	EA	Prepared	Rabin R
Project Name included, Acoustic fill details added & Contents rearranged						Checked	S. Madhulingam
						Approved	E. Athiannavi
						Date	06-08-2015



PURCHASE SPECIFICATION OF VENT SILENCER FOR M/s. NTPC, BARH STG I

4.0 GENERAL REQUIREMENTS

- A) ALL SILENCER SUPPORTS SHALL BE PROVIDED BY MANUFACTURER INCLUDING BOLTS AND NUTS.
- B) THE MANUFACTURER SHALL STAND GUARANTEE FOR 12 MONTHS AFTER THE SILENCER IS PUT INTO SERVICE FOR PERFORMANCE AND MECHANICAL REQUIREMENTS.

4.1 DETAILS TO BE PROVIDED BY VENDOR ALONG WITH QUOTATION FOR APPROVAL

- A) GENERATED NOISE LEVEL WITHOUT SILENCER ON OCTAVE BAND CENTRE FREQUENCIES
- B) ATTENUATION CURVE OF SILENCER AND INSERTION LOSS CALCULATION.
- C) GENERATED NOISE LEVEL WITH SILENCER ON OCTAVE BAND CENTRE FREQUENCY.
- D) GA DRAWING OF SILENCER SHOWING INTERNAL DETAILS, OVERALL DIMENSIONS, SUPPORTING ARRANGEMENT DIMENSIONS AND MATERIAL SPECIFICATION OF EACH PART.
- E) PRESSURE DROP ACROSS SILENCER
- F) QUALITY PLAN FOR APPROVAL
- G) WEIGHT OF SILENCER
- H) ALLOWABLE FORCES AND MOMENTS ON SILENCER DUE TO PIPING STRESSES.
- I) STATIC AND DYNAMIC FORCES OF SILENCER WHILE SILENCER IS IN OPERATION.

4.2 DETAILS REQUIRED AFTER ORDER

- A) INSTALLATION AND MAINTENANCE MANUAL.
- B) SUPPLIER SHALL PROVIDE MATERIAL CERTIFICATES OF DIFFUSER, OUTER SHELL, PERFORATED SHEET & ACOUSTIC FILL OF SILENCER

5.0 INSPECTION AND TESTING

- A) INSPECTION AND TESTING TO BE DONE AS PER BHEL APPROVED QUALITY PLAN
- B) THE TESTS ARE TO BE CONDUCTED IN THE PRESENCE OF BHEL (OR) NTPC (OR) PERSONS AUTHORIZED BY BHEL/NTPC

Rev	Altered	Rev	Date	Altered	RR	Name	Signature
02	Chd & Appd	01	13.11.15	Chd & Appd.	EA	Prepared	Rabin R
Project Name included, Acoustic fill details added & Contents rearranged						Checked	S. Madhulingam
						Approved	E. Athiannavi
						Date	06-08-2015

Unpriced Bid

Collective No.	E-SSV-1206					
Enq. Date	24.11.2015					
Vendor code						
Vendor name						
Quote Ref						
Quote Date						
P & F (%)						
ED with CESS (%)						
VAT (%)						
CST (%)						
Freight (%)						
Insurance (%)						
Other Charges (%)						
Payment Terms						
Delivery Terms						
Validity						
Delivery Schedule						
Other Commercial Deviations						
Enq.Sl.No.	Material	Material Description	Specification No.	Qty	UOM	Quote / Regret
10	974611040000	SILENCER BARH-STAGE-I MS LINE SV	SPEC:SV:0027	6	NO	
20	974611050000	SILENCER BARH-STAGE-I HRH LINE ERV-HE	SPEC:SV:0027	6	NO	

Priced bid format

Collective No.		E-SSV-1206				
Enq. Date		24.11.2015				
Vendor code						
Vendor name						
Quote Ref						
Quote Date						
Enq.Sl.No.	Material	Material Description	Drawing/Standard	Qty	UOM	Unit Price
10	974611040000	SILENCER BARH-STAGE-I MS LINE SV	SPEC:SV:0027	6	NO	
20	974611050000	SILENCER BARH-STAGE-I HRH LINE ERV-HE	SPEC:SV:0027	6	NO	



BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant

Tiruchirapalli 620 014

PURCHASE VALVES

(To be filled and submitted along with Offer)

**BHEL Commercial Terms and Conditions for
INDIGENOUS SUPPLIERS FOR RC / NON RC – TWO BID SYSTEM
To be furnished along with offer**

	Technical confirmation to BHEL's Specification as called for in BHEL Format shall be furnished. If needed additional sheets shall be used.	Vendor's Confirmation / Comments
Tender opening Route :	<p>Tender opening consists of two part systems viz:</p> <p>1. Techno Commercial Bid with design Documents 2. Price Bid.</p> <p>Techno Commercial Bid will be opened First.</p> <p>After scrutiny and evaluation of Techno Commercial offers and the Design, the Price bid will be opened with due intimation to vendors.</p>	
Offers :	Offers should be submitted only in a sealed cover super-scribing clearly the Enquiry No. and due date.	
Prices :	Prices shall be quoted item/s wise to BHEL Material code wise and FIRM PRICE basis only as per the BHEL Enquiry.	
Offers :	Offers should be submitted only in a sealed cover super-scribing clearly the Enquiry No. and Enquiry due date.	
Validity of offer for NON-RC Items.	<p><u>VALIDITY OF OFFER FOR NON RC ITEMS:</u></p> <p>Minimum for a period of 60 days from the date of Tender opening (or) Finalization of tender.</p>	
Validity of offer for RC items	<p><u>VALIDITY OF OFFER FOR RC--- ITEMS:</u></p> <p>Minimum for a period of 1 year (One year) from the date of Tender opening (or) Finalization of tender.</p>	Not applicable
Delivery Terms :	FOR / BHEL / TRICHY basis only inclusive of P & F, Insurance and other charges if any.	
Delivery period :	Indicate the early delivery period in the offer	
Liquidated damages :	LD @ 0.5 % per week subject to a maximum of 10% of the order value shall be levied for Total PO value.	

**BHEL Commercial Terms and Conditions for
INDIGENOUS SUPPLIERS FOR RC / NON RC – TWO BID SYSTEM
To be furnished along with offer**

Confirmation to BHEL'S Drawing / Specn. / TDC	Item-wise confirmation to BHEL's Drawing/s / Specification / TDC is required in the offer itself.	
Inspection :	Final inspection/witness by BHEL/NTPC Inspector at Vendor works.	
Inspection Charges	Please indicate the Inspection charges if any in the offer itself and indicate the details of Inspection Agency.	
Payment Terms :	100% payment will be made after 45 days on acceptance of materials at our Stores.	
Excise Duty : (ED)	Indicate the Excise duty (ED) and Cess in the offer clearly if applicable.	
CST Tax Details :	Indicate the CST - details in the offer clearly if applicable.	
VAT Tax Details :	Indicate the VAT - details in the offer clearly if applicable.	
Risk Purchase clause	Risk Purchase shall be applicable as per BHEL Terms and Conditions. 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	
Guarantee :	The equipment shall be guaranteed for a period of 12 months from the date of commissioning.	
Warranty	Any warranty replacement during warranty period shall be supplied free of cost on FOR / BHEL, Trichy basis.	
Documents:	The vendor shall provide necessary Invoice, Delivery challan, drawings, Test Certificates, Guarantee Certificates, Operating Maintenance Manuals and etc., 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 and details have been obtained.	

Signature & Office Seal of the vendor



BHARAT HEAVY ELECTRICALS LTD

Valves/Purchase, Tiruchirappalli-620014, INDIA

TERMS AND CONDITIONS

Phone: 0431 257 7252

Email: npkumar@bheltry.co.in

1. QUOTATIONS:-

- a. **Submission of Tender:** 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 not be addressed to any individual's name but only by designation as below:

Deputy Manager/Purchase/Valves
High Pressure Boiler Plant
Bharat Heavy Electricals Limited
Tiruchirappalli - 620 014, Tamilnadu, India

- b. **Late tenders:** Late tenders shall not be considered under any circumstance.
- c. **Regulations:** Tender should be accompanied by detailed technical literature, Catalogue and detailed dimensional drawings in ENGLISH. 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.
- d. **Two Bid Systems:** If tender calls for twopart bid system (Techno commercial & price Bid). First the Techno Commercial bid will be opened. Techno-commercially suitable vendors alone will be intimated for price bid opening or Reverse Auction.
- 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 wherever necessary.
- g. **Acceptance:** The purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any tender in part or full without assigning any reason whatsoever.
- h. **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.
- i. **Spares:** The tenderer should quote separately for spares that are required for two years trouble free operation. The spares offer should accompany the offer of main equipment; otherwise the quotation will be overlooked.

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.
For Import Suppliers: 100% payment against presentation of documents through Bank.
No other payment term is acceptable to BHEL.
- b. **Liquidated Damage:** A sum equivalent to 0.5% of price for each week of delay up to a maximum of 10% of the total po value.
- c. **Delivery Terms:**
For Indigenous Suppliers: FOR BHEL Trichy/FOR site as mentioned in enquiry inclusive of freight and insurance.
For Import Suppliers: FOB nearest SEA Port/FCA nearest AIR port.
- d. **Validity of Offer:** Prices should be valid for 120 days from the date of opening of this tender.
- e. **Duties and Taxes:** If any Sales Tax is payable as extra to the quoted price, it should be specifically stated in quotation along with CST & T.N.G.S.T No. failing which the purchaser will not be liable for payment of Sales Tax. Our T.N.G.S.T No. 3550005 Dated 01-04-1995 C.S.T. No. 259383 Dt. 11.06.1991.
- f. **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.
- g. **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 at the rate mentioned in clause 2 b above.
- h. **Preferential Delivery:** If a contract is placed on a higher tender as a result of this invitation to tender in preference to the lowest acceptable offer in consideration of the earliest delivery, the seller will be liable to pay to the purchaser the difference between the contract rate and that of the lowest acceptable tender on the basis of final price FOR destination, including all elements of freight, sales tax, duties and other incidents, incidental in case of failure to complete supplies in terms of such contract within the date of delivery specified in the tender and incorporated in the contract.
- i. **MODVAT/CREDIT:** If any Excise Duty is payable, the chapter head/sub-head reference and the rate of the duty should be quoted. If the tender is availing MODVAT credit for his input materials, the effect of proforma invoice should be passed on to the purchaser.



BHARAT HEAVY ELECTRICALS LTD

Valves/Purchase, Tiruchirappalli-620014, INDIA

TERMS AND CONDITIONS

Phone: 0431 257 7252

Email: npkumar@bheltry.co.in

- j. **Miscellaneous:** Any Other conditions which might have been quoted by the seller and are in contravention to the terms prescribed in the order and which have not been specifically accepted in by Purchaser will not be applicable to the contract.
- k. **Delivery:** 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 this delivery period BHEL will operate 0.5% loading factor for evaluation of their offer for every week delay.
- l. **Performance Bank Guarantee:** If tender Calls for Performance Bank Guarantee, Vendor should provide a performance bank guarantee (PBG) for 10% of the total Purchase order value valid for warranty/guarantee period with an additional claim period of 2 months.

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. Purchase Order, PO Item SI No, Material code, Quantity should marked the Packing clearly.
- g. Confirmation for compliance is to be given in the offer for all the conditions specified above and to the respective Purchase Specification.

4. DOCUMENTATION:

For Indigenous suppliers:-

- a. **With Consignment:** Duplicate for transporter copy of Invoice, Packing List, Delivery Challan, O&M manual Material Test Certificate, Test Certificates, Calibration Report, Compliance Certificate & Guarantee/Warranty Certificate etc...
- 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 Finance:** Original and Duplicate Invoice for payment with GR reference ,should be sent directly to
Senior Manager/Valves-Bills section
HPBP BHEL Tiruchirappalli-620014, Tamilnadu.

To Purchase:

- i. **FOR BHEL TRICHY case-** Copy of Invoice, Packing list, LWB and Delivery challan for reference, original IBR documents/Inspection despatch clearance certificates
- ii. **FOR Site case-** Original Excise Invoice, Original LWB, Original Packing List, Original IBR documents, Original despatch clearance Certificate, Original Inspection report, Test certificates as per PO, Original Site Acknowledgment etc...
- d. **Identification:**, Purchase Order, PO item SI No, Material code, quantity, Unique SI No if any should be provided in all despatch documents, materials and packing clearly.

For Import suppliers:-

- a. **With Consignment:** O&M manual and Packing List, Fumigation certificates (In case of SEA shipment).
- b. **Through Bank:** All Original Documents in Triplicate Bill of lading in case of SEA/Airway Bill in case of AIR consignment, the invoice indicating the Unit price & total price, Packing List contains quantity ,net & gross weight, Packing dimensions, Certificate of Origin, all Inspection test certificates, Guarantee/warranty certificates are to be sent through supplier's bankers to BHEL bankers
- c. **To Purchase:** One copy of above non-negotiable documents are to be sent to purchase department after dispatch of the materials to follow up with freight forwarder.
- d. **Identification:**, Purchase Order, PO item SI No, Material code, quantity, Unique SI No if any should be provided in all materials and packing clearly.

SCHEDULE OF DEVIATIONS

Enquiry Reference:

Offer Reference:

Date:

Commercial Deviation

Clause No:	Description	Supplier Deviation

Technical Deviation

Clause No:	Description	Supplier Deviation

We confirm the acceptance of all the technical and commercial requirements as per BHEL tender, except the above deviations

Signature with seal