



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

MATERIALS MANAGEMENT

TITLE	Phone: +91 431 2574087/2574157 Fax : +91 431 252 0233 / 0525 Email : joe@bheltry.co.in
AIR ASSISTED SAFETY VALVE	

	Reference Number: MM/FBC&HRSG/ ASV	Enquiry Date: 10.08.2011	Due date for submission of quotation: 21.09.2011
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You are requested to quote the Enquiry number date and due date in all your correspondences.


BHEL/Trichy is looking for Supply of **AIR ASSISTED SAFETY VALVE**


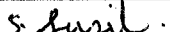


BHEL commercial terms & conditions with Price Bid formats and all annexure can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units) Bharath Heavy Electricals Limited) under reference "**MM/FBC&HRSG/ ASV** "

Tenders should reach us before 14:00 hours on the due date
Technical bid will be opened at 14:30 hours on the due date
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present.

Yours faithfully,
For **Bharath Heavy Electricals Limited**

SPO / Purchase/ FBC&HRSG

		BOILER MOUNTINGS/PE/BHEL, Trichy		Spec Sheet No: FBC&HRSG:24:700		Sheet: 01 OF 02	
		Spec.Sheet For AIR ASSISTED SAFETY VALVE		CUSTOMER Nos: 5316 &5317		Project: BECL	
SI No		DESCRIPTION					Vendor Confirmation
01		Application :		MS Line Air Assisted Safety Valve			
02		Valve Tag Nos :		1LBA01-AA101&1LBA02-AA101			
03		Quantity/Boiler :		2NOs			
04		Type of Valve: (Refer Note also) :		Spring loaded Safety valve with supplementary air holding loading type.			
05		Set Pressure : kg/sqcm(g)		Open:182.6		Close:177.5	
06		Design Pressure : kg/sqcm(g)		203			
07		Operating Pressure : kg/sqcm(g)		176			
08		Design Temp : Dec C		540			
09		Relieving Capacity : kg/hr		202500			
10		Relieving Temperature : Dec C		540±5			
11		Blow Down : %		2.8			
12		Set Pressure Tolerance :		As per IBR			
13		Disc and Test gag for gaging during Hydro Test :		Vendor to Supply			
14		Weight of Valve :		Vendor to Specify			
15		Boiler Code :		As per IBR			
16		Medium :		Vendor to Specify			
17		Reaction Force :		Vendor to Specify			
18		Hydro Test		Should be done as per IBR (1.5 times design Pressure)			
19		Form III C IBR Certificate (Approved by inspection authorities Approved by IBR)		To be furnished by vendor			
20		Reference list of similar valves supplied and working satisfactorily to be enclosed along with the offer		To be furnished by vendor			
21		Inlet Connection :		Butt Weld (E.P. Vendor to Specify)			
22		Outlet Connection :		Flanged (As per ANSI B16.5)			
23		Main steam line size & material :		D323.9X40:SA335P91			
24		Pressure Tappings line size, Material, End conn :		D33.4X9.09:SA335P22:Welded			
25		Safety Valve Inlet Nozzle Material :		SA182F91			
26		Solenoid valve voltage :		24V DC			
27		During normal Operation Air Pressure For Control Unit :		a).Continuous Operation : b).Intermittent Operation :			
28		Supply Air Pressure To PRV : kg/sqcm(g)		6			
29		Control Unit :		1 No/Valve			
30		Protection Class For Controller :		IP65			
Prepared		Reviewed		Approved		Date	Rev
S.Susil kumar <i>S. Susil</i>		A.Madhusudan: <i>AM</i>		N.Kathir Vel <i>NK</i>		04.06.11	00

	BOILER MOUNTINGS/PE/BHEL, Trichy		Check Sheet No: FBC&HRSG:24:700		Sheet: 02 OF 02
	CHECK SHEET FOR AIR ASSISTED SAFETY VALVE		CUSTOMER Nos: 5316 & 5317		Project: BECL
SI No	DESCRIPTION				Vendor Confirmation
I	DOCUMENTS REQUIRED: Along with Offer : 2 Sets				
1	Valve sizing and Calculation sheets				
2	GA-Section valve and dimensional drawing with part list.				
3	Quality Plan				
4	Data sheet for pneumatic actuator, Control Device and Circuit diagram for control device.				
5	Vendor Painting Procedure shall be submitted for approval.				
6	Catalogues of the accessories offered.				
II	DOCUMENTS REQUIRED: After Placement of Order : 3 Sets				
7	Datasheet and bill of materials for each valve				
8	Section drawing and dimensional drawing for each valve.				
9	Datasheet and wiring drawing for actuator				
10	Quality Plan				
11	O&M Documents.				
12	Final Inspection –Test Certificates.				
NOTE: The safety valve is spring loaded with supplementary air holding type having a relieving Capacity as specified in Spec sheet (01 of 02) suitable for remote operation. The valve shall also be capable of automatic operation on rise in drum pressure to a value corresponding to a pressure setting lower than that of superheater Safety valve pressure (186.3 kg/sq.cm(g))					
Prepared		Reviewed		Approved	Date
S.Susil kumar 		A.Madhusudan: 		N.Kathir Vel 	04.06.11
					Rev
					00

BHARAT HEAVY ELECTRICALS LIMITED
FBC & HRSG / PURCHASE

Ref: MM/FBC & HRSG/Web Tender

SPECIAL CONDITIONS

1. This tender is for the supply as per the enclosed Enquiry and specification.
2. The vendor shall have adequate experience in manufacturing of this item.
3. The tender is in TWO parts. One part consisting of Technical Bid with Commercial Terms & Conditions along with Quality Plan for supply in-line with our requirements and another Part containing Price Bid. Techno-Commercial bid and price bids are to be submitted in separate sealed covers. In addition to Technical & Commercial conditions, vendors, who are not registered vendor of BHEL, Trichy have to submit the filled in "Supplier Registration Forms" (available in www.bhel.com website) along with the technical bid. Based on this and other conditions, as well as capacity and capability and approval by customer vendors will be short-listed. Both these covers are to be put in a single cover duly super scribing the Enquiry Number. The technical bid with Commercial Terms & Conditions will be opened on the due date and based on the acceptance of techno-commercial bid and vendor evaluation, the price bid of the qualified vendors will be opened on a suitable date with due intimation.

Following will be the criteria for short-listing the vendors.

- Evaluation of the duly filled Supplier Registration Forms.
 - Availability of minimum manufacturing, handling, testing and measuring facilities as detailed in the Supplier Registration Form.
 - BHEL will have the right for spot assessment of the facilities.
 - Meeting our techno-commercial requirements of the enquiry.
 - Customer approval for the vendors before ordering.
4. BHEL reserves the right to negotiate with the L-1 vendor.
 5. BHEL reserves the right to re-float the tender opened, if L1 price is not the lowest acceptable price to them inter-alia other reasons.
 6. The materials are to be dispatched to site with normal packing in case of indigenous vendors and with sea worthy packing for foreign vendors.
 7. For the delayed delivery, LD is applicable at 0.5% per week, subject to a max. of 15% on undelivered portion.

8. Indigenous vendor shall quote for Ex works basis.
9. Foreign vendor shall quote for FOB seaport.
10. Performance Bank Guarantee for 10% value of the order shall be submitted, valid for 24 months from the date of dispatch or 18 months from the date of commissioning.
11. Applicable Commercial Terms & Conditions shall be clearly spelt out in the offer.



SPO/PURCHASE/FBC & HRSG