



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HEAVY PLATES AND VESSELS PLANT
PURCHASE DEPARTMENT
VISAKHAPATNAM - 530012
ANDHRA PRADESH(INDIA)

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Contact Ph No :0891-6681309
Fax :0891-6681700
Email :chirag@bhelviz.co.in
web : www.bhelviz.co.in

Enquiry No (Coll-No)	Enquiry Date	Due Date for Quotation
H011700047	10.03.2017	25.03.2017
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. Bid should be submitted in two parts. 1.Techno-commercial bid (Part-I) and 2.Price bid(Part-II) in a separate sealed cover and both covers must be placed in a third cover and sealed. Our Enquiry No., Enq. date & Enq. Due date must be written on all three covers.		

Item	Description	Unit	Quantity	Delivery Quantity	Delivery Date
10	Self Actuated Pressure Reducing Valve L000119701002001 As per Spec No: INST-5594-46-MR-002, Rev 0 (2 Sheets) & Salient Points For Self actuated Pressure control valves (1 Sheets) Inspection BY: M/s BHEL-HPVP/ Authorised Agency	NO	2.000	2.00	02.06.17

General Note:

TERMS & CONDITIONS:

- 1) Please quote your Price on FOR BHEL HPVP Stores, Visakhapatnam basis.
- 2) Price Evaluation: Price shall be considered on item wise landed cost basis (Cost to BHEL-HPVP, VSP - 12). Landed cost shall be worked out on price quoted including Freight, Excise Duty and Sales Tax after taking out CENVAT and VAT benefit, as applicable. The Comparative Statement shall be worked out on item wise Landed Cost basis.
- 3) The Comparative Statement of the price prepared on the reference date shall remain firm throughout the execution period. Any change in duty & tax structure during execution of the contract will not be considered for re-ranking of vendors.
- 4) The lowest price received against the above Tender need not be commercially lowest price & BHEL-HPVP, VSP - 12 reserves the right to NEGOTIATE the same.
- 5) BHEL-HPVP, reserves the right / option to REFLOAT the Tender if price is not the lowest acceptable price to BHEL-HPVP.
- 6) Payment Terms: Payment will be made within 45 days from the date of receipt and acceptance of material. If the offer is not in line with the same, the following loading criteria will be adopted for evaluation (Offer with Payment Term as Payment against Proforma Invoice shall be rejected)

The offers should reach us before 14:00 hrs on the due date of opening of the tender. The offers will be opened after 15:00 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


CHIRAG GOEL
Engineer (MP-Cape)
Bharat Heavy Electricals Ltd.
HPVP, VISAKHAPATNAM-530012



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7) Loading Criteria for Payment Terms: Vendor should accept the payment terms specified above. However for any deviation to the payment terms offered with reference to the above criterion will be loaded with prime lending rate of SBI prevailing on date of opening of price bid + 6%, which shall be computed for the differential period between BHEL Visakhapatnam terms of payment and the offered basic price.

8) Please submit your sealed quotation in TWO PART BID (PART I- Techno Commercial & Unpriced Bid, PART II - Priced Bid in separate covers) before 2 p.m on or before the due date. The Part I bids will be opened at 3 p.m on due date. The quotations shall be sent by post to "Manager (MP-Misc & CPS), BHEL-HPVP, Visakhapatnam-530 012 A.P" or quotations can be dropped in the Tender Box which is available in Admin Bldg, HPVP-BHEL Vizag

9) If you are not able to quote, please send your regret with the reasons.

10) Offer validity should be 60 days from tender opening date.

11) HPVP- BHEL reserves the right to increase/ decrease the qty.

12) Fax / mail offers will not be accepted.

13) DELIVERY PERIOD: The acceptable Delivery period shall be within 8 weeks to 12 weeks from the date of Purchase Order.

Loading Factor for delivery period:

The offers which do not conform to 8 weeks of delivery period but are within 12 weeks of delivery period shall be loaded for the delayed delivery beyond 8 weeks @ 0.5% per week or part thereof on the offered basic value.

Any offer quoting beyond 12 weeks of delivery period shall be summarily rejected.

14) Supplier should confirm the acceptance for Part order quantity.

15) Please Sign and stamp all tender enquiry pages and submit the same along with quotation.

16) Inspection of material by BHEL HPVP on receipt of materials at our Stores or by BHEL approved inspection agency & rejected material if any is to be replaced within one week.

17) LD will be levied @ 0.5% of the price for each week of delay or part thereof up to a maximum of 10% of undelivered portion to be reckoned from the contract delivery date.

18) Loading Criteria for LD: Any deviation from above LD Clause to the extent for which LD is not agreed by the vendor i.e., differential % value will be loaded on basic price, e.g. If some vendor agrees for say maximum of 4% LD then his price will be loaded by 6% (10 -4) of his quoted basic price.

The offers should reach us before 14.00 hrs on the due date of opening of the tender. The offers will be opened after 15.00 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

Engineer (MP-Cape)

Bharat Heavy Electricals Ltd

HPVP, VISAKHAPATNAM-530 012



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19) APVAT Input Tax credit:.

The details of tax invoice raised against BHEL-HPVP should be uploaded in Andhra Pradesh commercial tax department online portal by the supplier on or before the due date mentioned in Rule 23(1) of APVAT Rules 2005.

The supplier should ensure correctness of BHEL-HPVP TIN (37418632431) while uploading the invoice details in APCT online portal.

The burden of tax/penalty/disallowance of Input tax credit due to uploading of wrong details relating to BHEL-HPVP invoices (eg. TIN / Date of Invoice / Invoice Number/ Tax rate/ value etc#) in APCT online portal if any should be borne by the supplier.

20) Please fill the checklist for commercial terms enclosed at annexure -1 and send the signed and stamped copy of the same along with your bid.

Enclosures:

ANNEXURE-1, II & III

The offers should reach us before 14.00 hrs on the due date of opening of the tender. The offers will be opened after 15.00 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

CHIRAG
Purchase Department
Visakhapatnam - 530012
Andhra Pradesh (India)

CHECK LIST FOR COMMERCIAL TERMS

Bidder's acceptance to BHEL Visakhapatnam's Standard Commercial Terms & Conditions.

(To be submitted along with the offer – please do not change the format)

BHEL -HPVP Visakhapatnam Tender Enquiry No. & Date:	
Description of commercial terms	Bidders response
Prices have been quoted on "FIRM PRICE" basis only (Yes / No)	
Prices have been quoted on "F.O.R BHEL Visakhapatnam" basis only (Yes / No)	
P & F (Please confirm whether included or not)	
Freight (Please confirm whether included or not)	
Insurance (Please confirm whether included or not)	
Validity of offer (we require a minimum period of 60 days from the date of Tender Opening – please Specify)	
Sales Tax (please Specify)	
Excise Duty (please Specify)	
Delivery period from the date of Purchase Order (please Specify).	
Liquidated damages (we require acceptance to @ ½% per week subject to a maximum of 10%) (Yes / No)	
Payment terms (Payment will be made within 45 days from the date of receipt and acceptance of materials) (Yes / No)	
Vendor Status (MICRO / SMALL ENTERPRISES) (please Specify) (If yes, please submit the supporting documents along with offer)	
Whether owned by SC/ ST Entrepreneurs (Yes / No) (If yes, please submit the supporting documents along with offer)	

CHIRAG GOEL
Engineer (MR. Gane)
BHEL Visakhapatnam
BHEL-HPVP-2014-53

Signature & Office Seal of the bidder

BHEL-HPVP UNIT		Specification for SELF ACTUATED PRESSURE CONTROL VALVES	
PREPARED	CHECKED	APPROVED	
		PLANT: LAR Storage & Vapourisation & Pressure Regulating	
		CONSULTANT: ----	
		CUSTOMER: M/S. BHEL, HPVP-Visakhapatnam	
		INST-5594-46-MR-002	
0		Sheet No.1 of 2	
Rev.	Date	Description	Initial
			Rev.No. 0

UNITS :: PRESSURE: KG/CM ² G,				DENSITY:: LIQUID: KG/M3, GAS: KG/NM3, STEAM: KG/M3,			
FLOW: LIQUID- M3/HR, GAS- NM3/HR, STEAM-KG/HR				TEMPERATURE: DEGC			
GENERAL				Item No. 1		Item No. 2	
	1	Tag No.	QTY	PRV 1101	1 Nos.	PRV 1102	1 Nos.
	2	Inlet Line No.		1"-AG-1103-A2K		1"-AG-1103-A2K	
BODY	3	Outlet Line No.		1"-AG-1104-A2K		1"-AG-1105-A2K	
	4	Service		Argon		Argon	
	5	Line Size	Schedule	1" NB	3.38 mm Thk	1" NB	3.38 mm Thk
ACCESSORIES	6	Inlet Line O.D. in mm	Out Line O.D. in mm	33.40 mm	33.40 mm	33.40 mm	33.40 mm
	7	Type Of Body		Globe, Self operated		Globe, Self operated	
	8	Body Size	Port Size	1"	"	1"	"
MODEL NOS	9	End Conn. Flg. Matl., Size & Rating		Flanged, A182 F304, 1", 150#		Flanged, A182 F304, 1", 150#	
	10	Flange Facing & Finish		RF 125AARH		RF 125AARH	
	11	Body Material		A 351 CF8 *		A 351 CF8 *	
SPECIAL REQUIREMENT	12	Trim Material		SS 316+ Stellite *		SS 316+ Stellite *	
	13	Set Point		5 to 10 kg/cm2g *		5 to 10 kg/cm2g *	
	14	Impulse connection : INT / EXT		Internal *		Internal *	
Accessories	15	Connection size & Type if External		"		"	
	16	Material of diaphragm		"		"	
	17	Bonnet type		Plain		Plain	
Accessories	18	CV: MIN	CV: MAX	"	"	"	"
	19	CV: NORMAL	CV: SELECTED	"	"	"	"
	20	Predicted sound level dB		< (85 dBA)		< (85 dBA)	
Accessories	21	Inlet velocity		"		"	
	22	Packing or seals		PTFE *		PTFE *	
	23	% of Droop		"		"	
Accessories	24	ANSI leakage class		IV		IV	
	25	lubricator	Isolation valve	---	---	---	---
	26	guiding	No. of ports	Top	Top	Top	Top
Accessories	27	Regulation Upstream / Down stream		Down stream		Down stream	
	28	Spring Range		5 to 10 Kg/cm2g *		5 to 10 Kg/cm2g *	
	29	Pressure indicator		Required		Required	
Accessories	30	Relief valve		---		---	
	31	Line strainer		---		---	
	32	Fluid	State	Argon	Vapour	Argon	Vapour
Accessories	33	Flow Nm3/Hr	Min. Nor. Max.	---	200 Nm3/Hr	---	200 Nm3/Hr
	34	Inlet Pressure	Min. Nor. Max.	---	17 kg/cm2g	19.6 kg/cm2g (Mech. Design)	17 kg/cm2g 19.6 kg/cm2g (Mech. Design)
	35	Diff. Pressure @ Flow Min.	Nor. Max.	---	<= 1 kg/cm2g	---	<= 1 kg/cm2g
Accessories	36	Diff. Pressure Shut Off kg/cm2g		22		22	
	37	Temperature	Min Oper Max.		0-35 (-20) / 65 (Mech Design)		0-35 (-20) / 65 (Mech Design)
	38	Operating Density	Molecular Weight	---	40	---	40
Accessories	39	Cp/Cv	Compress. Factor	---	---	---	---
	40	Flash %	Oper. Vis. mPotse	---	---	---	---
	41	Deg. of superheat	% Solids	---	---	---	---
Accessories	42	Vapour Pressure	Critical Pressure	---	---	---	---
	43	Valve	Actuator	"	---	"	---
	44						
Accessories	45						
	46	IBR certification	NACE	---	---	---	---
	47	Fire Safe Design	Radiography	---	---	---	---
Accessories	48	Helium Leak Test		---	---	---	---
	49						
	50	Counter Flanges(Size/Matl/Rating/Fintsh/qty)		1"-A182-F304, 150#, RF 125AARH, 2 Nos for each Valve		1"-A182-F304, 150#, RF 125AARH, 2 Nos for each Valve	
Accessories	51	Reducer (Size/Matl/schedule/End connection/qty)		2"x1", ASTM-A182-F304, 40S, PBE, - 2 Nos per each valve		2"x1", ASTM-A182-F304, 40S, PBE, - 2 Nos per each valve	
	52	Gaskets, Bolts & Nuts		2 Sets for each Valve		2 Sets for each Valve	

<i>Deccan</i>		<i>High</i>	<i>11/12/15</i>	BHEL-HPVP UNIT
PREPARED	CHECKED	APPROVED		Specification for SELF ACTUATED PRESSURE CONTROL VALVES
				PLANT: LAR Storage & Vapourisation & Pressure Regulating
				CONSULTANT: ----
				CUSTOMER: M/S. BHEL, HPVP-Visakhapatnam
				INST-5594-46-MR-002
0	17.12.15	Issued with MI		Sheet No.2 of 2
Rev.	Date	Description	Initial	Rev.No. 0

NOTES:-

- 1 * : Vendor to furnish data.
- 2 Flange dimension shall be as per ANSI B 16.5.
- 3 Valve Cv Sizing shall be As per ISA S 75.01. Valve shall be sized for available pressure drop at normal flow and in addition shall permit up to 150% of Normal Flow And 130% of Maximum Flow whichever is higher. Vendor shall submit CV Sizing Calculation for all valves for our Approval.
- 4 Each Valve body shall be subjected to Hydrostatic Test at 1.5 times rated Pressure as per ANSI Rating.
- 5 Seat Leakage Class for Valves shall be as per ANSI B16.104 / FCI 70.2.
- 6 For lines $\geq 1"$ the minimum valve size shall be 1"
- 7 ~~For Valves of 1.5" and small shall have minimum rating of ANSI 300~~
- 8 Body Rating of the valves shall be at least the rating of End connection flanges.
- 9 ~~Minimum Valve Body size shall be as specified. If offered body size is different to Pipe size, necessary Reducers with "pipeside Plain" and "NPTM connection on Valve side" shall be provided. 2 Nos Reducers shall be provided for each Valve.~~
- 10 ~~PTR for oxygen service shall be provided. Vendor shall provide at least 2 references, where Valves are working for more than 4000 Hrs. in Oxygen service.~~

Salient Points For Self actuated Pressure control valves

S.No.	DESCRIPTION																		
1	Selection of proper model in conformity with specifications , standard /requirements is the responsibility of vendor. Mentioning the model number in the P.O. does not absolve the responsibility of vendor .																		
2	DOCUMENTATION Vendor shall furnish following documents along with invoicing & supply of materials. <table><thead><tr><th></th><th>Invoice</th><th>Supply</th></tr></thead><tbody><tr><td>a) Guarantee certificate:</td><td>3 Copies</td><td>Nil</td></tr><tr><td>b) Inspection clearance certificates:</td><td>3 Copies</td><td>Nil</td></tr><tr><td>c) Operation and maintenance manual:</td><td>2 Sets</td><td>10 sets</td></tr><tr><td>d) Manufacturer's test certificate and other test certificates (As indicated under inspection requirements):</td><td>2 Sets</td><td>10 sets</td></tr><tr><td>e) complete packing list</td><td>3 Copies</td><td>1 Copy</td></tr></tbody></table>		Invoice	Supply	a) Guarantee certificate:	3 Copies	Nil	b) Inspection clearance certificates:	3 Copies	Nil	c) Operation and maintenance manual:	2 Sets	10 sets	d) Manufacturer's test certificate and other test certificates (As indicated under inspection requirements):	2 Sets	10 sets	e) complete packing list	3 Copies	1 Copy
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e) complete packing list	3 Copies	1 Copy																	
3	Vendor shall submit following documents to BHEL for approval /Information within two weeks after placement of P.O. along with required inputs from BHEL .Vendor shall commence the manufacturing /Testing of items only after the specific approval of relevant documents by BHEL. Delay in submitting documents shall be to Vendor's account. a) QAP (A) b) Sizing calculation details (A) c) Dimensional drawing (I) A: Approval I: Information																		
4	INSPECTION: a) Inspection shall be carried out at vendor's works by BHEL /TPI .Vendor shall furnish 2 weeks of advance intimation for inspection along with 1 copy of relevant test certificates for the requirement indicated in point 'b' given below b) The following are the minimum inspection requirements. • Verification of material with reference to P.O. • Operational / Functional check • Hydro Test • Review of Manufacturer's / Material test Report • As per approved QAP procedure. • Visual check • Dimensional and /or thread check for end connections as per approved drawings. • Review of pressure test certificate • Seat leakage test																		
5	Inspection and testing shall not relieve the supplier /manufacturer from his responsibility for materials and performance of the instrument supplied.																		
6	All equipments supplied shall be field proven quality both with respect to design and materials . Proto type Instruments or instruments of an experimental nature shall not be offered or supplied . In general all instruments and accessories etc .offered by vendor shall have a well proven performance record of operating satisfactorily in the hydrocarbon industry like refinery, petrochemicals, gas processing etc. for a minimum of 4000running hours. No instrument requiring special maintenance or operating facility shall be offered or supplied as far as possible.																		
7	Vendor Should be EIL Approved Vendor for Indented item. Vendor is acceptable based on EIL Reference only. Vendor should furnish EIL reference along with the offer.																		