



Boiler Auxiliary Plant , Bharat Heavy Electricals
Limited , Ranipet Tamilnadu- 632406

Purchase Department

Enquiry No: BAP/PUR/GATE VALVE dt.18.07.2015
Due on: 10.08.2015

Item: Gate Valve

Synopsis :

(i) Annexure-I

Pre-Qualification Requirement

Description of item , Quantity details and Relevant specification

(ii) Annexure-II : General terms and conditions of tender

(iii) Annexure-III : Commercial terms and conditions Annexure, MSME split provision & CA certificate format.

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Annexure-I To Open Tender ref: BAP/PUR/GATE VALVE dt.18.07.2015

For Supply Of "GATE VALVE" , Due on : 10.08.2015

Pre-Qualification Requirement

(1) Vendor should be a manufacturer of this item.

(2) For enq sl no 01-03, only CE marking valves are acceptable. For enq sl no 04-05, CE marking is not required.

(2) Vendor should have supplied at least 10 nos of Gate Valve for past two years. Purchase order copies for the supply made in the past two years should be enclosed along with technical-commercial offer.

Offers of such vendors will be considered at our end who meets the above requirements.

Annexure-I To Open Tender ref: BAP/PUR/GATE VALVE dt.18.07.2015

For Supply Of "GATE VALVE", Due on : 10.08.2015

Description of Item, Qty, Drawing and Relevant Specification

Sl No	Description of Itrm	Qty	Unit	Delivery Required
01	R84331290001 NB100 AT GATE VALVE WITH CE MARKING AS PER SPECIFICATION: TFF:KONIAMBO:VALVES:REV 01. PRESSURE RATING: 7 KG/SQ CM.	06	No	24.10.2015
02	R84331290002 NB50 AT GATE VALVE WITH CE MARKING AS PER SPECIFICATION: TFF:KONIAMBO:VALVES:REV 01. PRESSURE RATING: 7 KG/SQ CM.	10	No	24.10.2015
03	R84331290003 NB80 AT GATE VALVE WITH CE MARKING AS PER SPECIFICATION: TFF:KONIAMBO:VALVES:REV 01. PRESSURE RATING: 7 KG/SQ CM.	04	No	24.10.2015
04	R84331290004 NB25 AT GATE VALVE WITHOUT CE MARKING AS PER SPECIFICATION: TFF:KONIAMBO:VALVES:REV 01. PRESSURE RATING: 7 KG/SQ CM.	10	No	24.10.2015
05	R84331290005 NB15 AT GATE VALVE WITHOUT CE MARKING AS PER SPECIFICATION : TFF:KONIAMBO:VALVES:REV 01. PRESSURE RATING: 7 KG/SQ CM.	10	No	24.10.2015

Specification to be followed : TFF:KONIAMBO:VALVES:REV 01

TECHNICAL SPECIFICATION FOR VALVES

TFF:koniambo:VALVES:REV:01
DATE:15-07-14 PAGE:01/04

1.0 Scope : Design, manufacture, testing and supply of manually operated isolation valves along with counter flanges, Gaskets and necessary fasteners.

1.1 CE MARKING : ♡

CE Marking applicable for Valves Nb 50 and above sizes only. Technical offers without CE making will be rejected.

2.0 Location & function: Used in compressed air system for isolation / regulating purposes. Used in outdoor application.

2.1 For type, size and quantity of the valves refer Enquiry.

3.0 Nominal Pressure : 7.0 kg/Cm².
4.0 Nominal temperature : Minimum 20°C
Maximum 60°C

5.0 End Connection :

5.1 End connection must be of flange type.

5.2 Flanges should be as per ANSI B16.5 & Flange details must be furnished along with main offer itself.

6.0 Operation : Valves shall be direct hand wheel operated with ease.

6.1 Detailed of scope : i) Valve assembly
ii) Two numbers of counter flanges.
iii) Required fasteners of Grade 8.8
iv) CAF gaskets for counter flanges and
v) Commissioning spares, if any.

7.0 Material of Construction :

Gate Blade: SS 304.

Body : Cast carbon steel (ASTM A216 Cr. WCB) for Size 50mm & above.
Cast carbon steel or Forged Carbon Steel (ASTM A105) for Size 40mm and below.

Wedge : 13% Cr Steel or Equivalent.

Bonnet : ASTM A 216 Gr WCB or Equivalent.



Stem, Seat ring & Spindle : AISI 410 or Equivalent.

Gland Packing : Machine Braided Metallic Reinforced Asbestos or Equivalent.

Hand Wheel : Malleable Iron/Steel.

Yoke Sleeve : ASTM A439 Gr D2 or Equivalent.

Stud : ASTM A193 Gr B7 or Equivalent.

Stud Nut : ASTM A194 Gr 2H or Equivalent.

Other items are to be as per relevant standards.

8.0 Inspection and testing :

- i) Dimensional Checks of the individual valves.
- ii) Material test certificates for the various components viz Gate, body, stem, seat, wedge, gland etc. as per approved drawing.
- iii) Valves should be inspected and pressure tested -- Body and Seat at a pressure of 1.5 times the nominal pressure in a medium of air.
- iv) All valves shall be fitted with OPEN/CLOSE indicators.

9.0 Documentation :

Supplier to furnish the following information without which the offer will not be considered for evaluation.

- i) Confirmation to the technical specification.
- ii) Overall dimensions of the valve and flange dimensions.
- iii) Catalogue for the each type of valves as per enquiry.
- iv) Assembly drawing of the each type of valve showing cross sectional elevation, plan view, end view and weight of the valve.

10.0 Supplier to include the commissioning spares, if required, for the valve in the main offer and clearly indicate the items.

11.0 Supplier to quote separately for maintenance spares required for two years of trouble free operation of valve.

12.0 Documents to be submitted on receipt of order:

General arrangement drawing showing all description, dimensions, part number, material, specification, quantity and weight details are to be submitted in 5 (five) sets for our approval before proceeding with manufacturing.



13.0 Guarantee & Services :

Performance shall be guaranteed for one-year trouble free operation from the date of commissioning or 18 months from the date of supply. During guarantee period any replacement of failed components shall be done at free of cost within a reasonable time.

14.0 Painting & Packing:

- i) As per CQR of the specific project.
- ii) Supplier shall arrange for securely protecting and packing of the each valves to avoid loss or damage during transit.
- iii) If wooden packing envisaged for valves, Packing should follow ISPM-15.

15.0 Deviation:

Vendor should specifically and clearly mention in the offer for any deviation from the technical specification quoting relevant clause.



TECHNICAL SPECIFICATION FOR VALVES

TFF:KONIAMBO:VALVES:REV:01
DATE:15-07-14

PREPARED BY :BALAJI

APPROVED BY :C.GANESH


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ISSUED BY:

AIR QUALITY CONTROL SYSTEMS
BHEL/BAP/RANIPET-632 406.