

Other than the vendors to whom the tender has been issued , interested vendors who wish to participate in the tender may apply with proper credentials and other relevant details so as to reach HEAD CALCUTTA BRANCH ,OIL INDIA LIMITED , 4, India Exchange Place, ICC BUILDING ,4th floor, Kolkata 700001,
FAX NO: (91-033) 2230 2596 ,E-mail:-oilcalmn@oilindia.in within 10 days of publication of the tender on OIL's website.

The vendors must fulfil the following conditions :

- i) The party should have three year's experience for the same item.
- ii) The party should have received one order for at least 50% quantity in last three years for the item from any reputed firm.
- iii) Annual turnover of the firm in any of the last three financial years or current financial year should be more than Rs. Eighteen lakhs.

NOTE : (i) Relevant documents in support of experience, last order and annual turnover must be submitted along with the application.

(ii) Application without complete supporting document will not be considered.

OIL INDIA LIMITED

(A Govt. Of India Enterprise) Tel :033 2230 1657, 1658
 4, India Exchange Place, Fax :91 33 2230 2596
 Kolkata-700001 E-mail :oilcalmn@oilindia.in

Tender No. & Date : KID5736L15/03 19.12.2014

Bid Security Amount : INR 0.00 OR USD 0.00
 (or equivalent Amount in any currency)

Bidding Type : Single Bid (Composite Bid)

Bid Closing On : 20.02.2015 at 14:00 hrs. (IST)
 Bid Opening On : 20.02.2015 at 14:00 hrs. (IST)

Performance Guarantee : Applicable

OIL INDIA LIMITED invites Limited tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
<u>10</u> 99078440	<p>"Ball Valve, DN8 (1/4 Inch) as per BS EN ISO 17292 Ball Valve, Fire-Safe & 2/3-Piece Swing Out Design, containing Mirror- Finished SS (Solid) floating ball, lever operated, through conduit full bore screwed to NPT (F) ends.</p> <p>Valve Design Standard: BS EN ISO 17292 Valve Inspection & Testing Standard: API 598 Fire Test Standard: API 607</p> <p>Nominal Size: DN8 (1/4 Inch)</p> <p>Salient Design Features: Blow-Out Proof Stem, Double Body-Sealing, Multiple Stem Sealing, Antistatic Feature to ensure electrical continuity between ball, stem and body.</p> <p>Material of Construction: Body and End Piece : ASTM A 105/ASTM A 216 Gr WCB Seat & Seal : RPTFE Ball : ASTM A351 Gr. CF8M / ASTM A182 Gr. F316 / ASTM A 217 CA15 Stem: ASTM A479 SS316 / ASTM A182 F316 Bolts & nuts : ASTM A193 Gr.B7 / ASTM A194 Gr.2H Rating : Suitable for working pressure up to 70 kg/cm2 Operation: Hand lever operated"</p>	100	NO
<u>20</u> 99078443	<p>"Ball Valve, DN15 (1/2 Inch) as per BS EN ISO 17292 Ball Valve, Fire-Safe & 2/3-Piece Swing Out Design, containing Mirror- Finished SS (Solid) floating ball, lever operated, through conduit full bore screwed to NPT (F) ends.</p> <p>Valve Design Standard: BS EN ISO 17292 Valve Inspection & Testing Standard: API 598 Fire Test Standard: API 607</p> <p>Nominal Size: DN15 (1/2 Inch)</p> <p>Salient Design Features: Blow-Out Proof Stem, Double Body-Sealing, Multiple Stem Sealing,</p>	100	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>Antistatic Feature to ensure electrical continuity between ball, stem and body.</p> <p>Material of Construction: Body and End Piece : ASTM A 105/ASTM A 216 Gr WCB Seat & Seal : RPTFE Ball : ASTM A351 Gr. CF8M / ASTM A182 Gr. F316 / ASTM A 217 CA15 Stem: ASTM A479 SS316 / ASTM A182 F316 Bolts & nuts : ASTM A193 Gr.B7 / ASTM A194 Gr.2H Rating : Suitable for working pressure up to 70 kg/cm2 Operation: Hand lever operated"</p>		
<u>30</u> 99078442	<p>"Ball Valve, DN25 (1 Inch) as per BS EN ISO 17292 Ball Valve, Fire-Safe & 2/3-Piece Swing Out Design, containing Mirror- Finished SS (Solid) floating ball, lever operated, through conduit full bore screwed to NPT (F) ends.</p> <p>Valve Design Standard: BS EN ISO 17292 Valve Inspection & Testing Standard: API 598 Fire Test Standard: API 607</p> <p>Nominal Size: DN25 (1 Inch)</p> <p>Salient Design Features: Blow-Out Proof Stem, Double Body-Sealing, Multiple Stem Sealing, Antistatic Feature to ensure electrical continuity between ball, stem and body.</p> <p>Material of Construction: Body and End Piece : ASTM A 105/ASTM A 216 Gr WCB Seat & Seal : RPTFE Ball : ASTM A351 Gr. CF8M / ASTM A182 Gr. F316 / ASTM A 217 CA15 Stem: ASTM A479 SS316 / ASTM A182 F316 Bolts & nuts : ASTM A193 Gr.B7 / ASTM A194 Gr.2H Rating : Suitable for working pressure up to 70 kg/cm2 Operation: Hand lever operated"</p>	100	NO
<u>40</u> 99078444	<p>"Ball Valve, DN50 (2 Inch) as per BS EN ISO 17292 Ball Valve, Fire-Safe & 2/3-Piece Swing Out Design, containing Mirror- Finished SS (Solid) floating ball, lever operated, through conduit full bore, Flanged ends.</p> <p>Valve Design Standard: BS EN ISO 17292 Valve Inspection & Testing Standard: API 598 Fire Test Standard: API 607</p> <p>Nominal Size: DN50 (2 Inch), ANSI 300 Class Face-to-face dimensions ASME B16.10 End flange dimensions: ASME B16.5</p> <p>Salient Design Features: Blow-Out Proof Stem, Double Body-Sealing, Multiple Stem Sealing, Antistatic Feature to ensure electrical continuity between ball, stem and body.</p> <p>Material of Construction: Body and End Piece : ASTM A 105/ASTM A 216 Gr WCB</p>	50	NO

Tender No. & Date : KID5736L15/03 19.12.2014

Item No./ Mat. Code	Material Description	Quantity	UOM
	Seat & Seal : RPTFE Ball : ASTM A351 Gr. CF8M / ASTM A182 Gr. F316 / ASTM A 217 CA15 Stem: ASTM A479 SS316 / ASTM A182 F316 Bolts & nuts : ASTM A193 Gr.B7 / ASTM A194 Gr.2H Rating : Suitable for working pressure up to 70 kg/cm2 Operation: Hand lever operated"		

Special Notes : (1) Please refer Annexure -A (Technical Compliance check list), Annexure - B (Scope of supply for Ball Valves) Annexure - C (Quantity Assurance Plan (QAP) enclosed herewith.

(2) The bidders are required to quote for specified makes only, where-ever indicated. Bidders other than OEMs / authorised dealers should not quote for such items. The authorised dealers should not quote for such items. The authorised dealers are required to submit copy of valid dealership certificate from the OEM, clearly indicating the validity of the certificate. Offers from bidders other than OEMs or their authorised dealers shall not be considered.

3. Validity of offer: 75 days from the date of tender opening. Offer with validity less than 75 days will be rejected.

Special Notes :

1.0 SCOPE:

All valves shall be manufactured and supplied in accordance with the BSENISO17292 Latest edition, with additions and Modifications as indicated in the following sections of this specification.

2.0 REFERENCE DOCUMENTS:

2.1 Reference has also been made in this specification to the latest edition of the following Codes, standards and Specifications.

- i) API607 Specification for Fire Test for Valves
- ii) API598 Valve Inspection & Testing Standard
- iii) ASTM A370 Standard Test Methods and Definitions for Mechanical Testing of Steel Products
- iv) ASME B16.5 Pipe Flanges and Flanged Fittings: NPS 1/2 through NPS 24 Metric / Inch Standard
- v) ASME B16.10 Face to Face dimensions of flanged Valves
- vi) ASME B16.34 Valves Flanged, Threaded and Welding End

In case of conflict between the requirements of this specification, BSENISO17292 and the Codes, Standards and specifications referred in clause 2.1 above, the requirements of this specification shall govern.

3.0 MATERIALS:

3.1 Material of construction for major component so for the valves shall be as indicated in Valve Data Sheet. In addition, the material shall also meet the requirements specified herein. Other

components shall be as per Manufacturer's standard, which shall be subject to approval by Purchaser.

4.0 DESIGN AND CONSTRUCTION:

- 4.1 Valve design shall meet the requirements of BSENISO17292.
 - 4.2 Valve shall be two/three piece, Swing out Design containing Mirror-Finished SS (Solid) floating ball
 - 4.3 Valves shall be through conduit full bore.
 - 4.4 Valves shall have Antistatic Feature to ensure electrical continuity between ball, stem and body.
 - 4.5 Valves shall have Blow-Out Proof Stem
 - 4.6 Valves shall have Double Body-Sealing, Multiple Stem Sealing feature.
 - 4.7 Valve design shall ensure repair of stem seals / packing under full in pressure.
 - 4.8 Valve shall be provided with Ball Position Indicator and stops of rugged construction at the fully open and fully closed positions.
 - 4.9 Each valve shall be provided with a wrench.
- Note: Vendor to provide 1 No. of wrench along with each valve supply.
- 4.10 Valve end shall be flanged as indicated in the Valve DATA Sheet.
 - 4.11 End Flanges shall have dimensions as per ASME B16.5

5.0 INSPECTION AND TESTS:

The manufacturer shall per formalin section and tests as per requirement of API 598 specifications and relevant codes, prior to shipment, at his works. Such inspection and tests shall be, but not limited to the

following. Materials shall be inspected and certified by OIL's approved Third Party Inspection Agency and their inspection certificate (original + duplicate) must be provided along with bill/dispatch.

- 5.1 All valves shall be visually inspected.
- 5.2 Dimensional check on all valves shall be carried out as per the purchaser approved drawings
- 5.3 Hydraulic test shall be 100% for all valves and test pressure shall be as per API 598 Spec.
- 5.4 Detailed dimensional drawings showing cross-section with part numbers and materials shall be submitted for Purchaser's approval along with the bid.
- 5.5 Charpy V-Notch test for body, ball, gland, stem & studs / nuts will be conducted at -20° Confive samples having average value of 35J and minimum value shall be 28J.
- 5.6 Gland packing assembly shall permit repair of gland packing under full in pressure.
- 5.7 Stops shall be provided to ensure positive alignment of ball with ports and ensure proper installation of handle.

Note: OIL may depute its representative at the vendor's works during manufacturing / testing stage. bidder to ensure that OIL representative shall get fair opportunity to witness the manufacturing of critical component and testing of the valve(s). Party to inform OIL at least 15 days ahead of such inspection.

Valves may be subjected to Hydrostatic Testing after receipt at OIL's warehouse and in case of any observance of deviation from test reports, supplier will be asked to depute its Engineer / Technician to witness and repair the same at their own cost.

6.0 PAINTING, MARKING AND SHIPMENT

6.1 Valve surface shall be thoroughly cleaned, freed from rust and grease and applied with sufficient coats of corrosion resistant paint. Surface preparation shall be carried out by shot blasting to SP-6 in accordance with Steel Structures Painting Council Visual Standard SSPC-VIS-1.

6.2 Packing and shipping instructions shall be as per BSENISO17292.

6.3 Valve Body Marking shall be as per BSENISO17292.

6.4 On Valve packing's, following shall be marked legibly with suitable marking ink.

- a) OIL's Order Number with Date
- b) Manufacturer's Name
- c) Valve size and rating
- d) Tag Number
- e) Serial Number

6.5 Valve ends shall be suitably protected to avoid any damage during transit. All threaded / flanged and machined surfaces subject to corrosion shall be well protected by a coat of grease or other suitable material. All valves shall be provided with suitable protectors for flange faces, securely attached to the valves.

7.0 DOCUMENTS TO BE SUBMITTED ALONG WITH THE OFFER:

The following documents are required to be submitted at the time of bidding

7.1 Detailed sectional arrangement drawing showing all parts with reference numbers, materials specification for our scrutiny and approval.

7.2 Assembly drawing with detailed dimensions

7.3 Point-wise compliance of NIT requirements. Deviations from the NIT, if any, must be highlighted with documentation. (As per Technical Check list Annexure-I)

7.4 Technical catalogue / literature of the valves.

7.5 Testing and quality control procedures / QAP in line with OIL's sample QAP (Annexure-C)

8.0 THIRD PARTY INSPECTION:

The valves will be inspected by M/s OIL approved Third Party Inspection Agency viz. M/s. Lloyds or M/s Bureau Veritas or RITES or M/s. BV, or M/s. IRS or M/s. DNV, M/s. Tubescope Vetco only. Third Party Inspection charges to be quoted separately which will be considered for bid evaluation. Quotation received without TPI charges will be loaded with the maximum TPI charges received against this tender at the time of commercial evaluation. The scope of Third Party Inspection will be as under:-

8.1 To review heat number-wise foundry certificates of castings and material certificates in order to ensure that the materials used are as per purchase order.

8.2 To ensure and check that valves are tested as per API598 specifications

8.3 To documents and issue all inspection certificates.

8.4 To witness Hydro Static Testing, Pneumatic Test for the Body and Seat on each specified valve as per API598 standards.

9.0 SUBMISSION OF DOCUMENTS ALONG WITH SUPPLY OF VALVES:

The manufacturer must submit the following along with the supply of the valves.

9.1 All test reports and certificates as required by API598 specifications.

9.2 Mill test certificates relevant to the chemical analysis and mechanical properties of the materials used for the valve construction as per the relevant standards.

9.3 Test certificate of Hydro Static Testing complete with records of timing and pressure of each

test carried out.

9.4 Above mentioned certificates shall be valid only when signed by Purchaser's Third party Inspection agency. Only those valves which have been certified by Purchaser's Third party Inspection agency shall be dispatched from Manufacturer's works.

9.5 The items shall be brand new, unused & of prime quality. Bidder shall warrant (in the event of an order) that the product supplied will be free from all defects & fault in material, workmanship & manufacture and shall be in full conformity with ordered specifications. This clause shall be valid for 18 months from date of receipt or 12 months from date of commissioning of the items. The defective materials, if any, rejected by us shall be replaced by the supplier at their own expense. Bidders must confirm the same while quoting.

10.0 Quantity of Individual item may be increased or decrease at the time of final placement of order.

Data Sheet

1. Design Standard: BSENISO17292, Fire Safe design and Fire Tests as per API607
2. Valve Location and function: Onshore Sweet Natural Gas Service
3. Valve Size: 1/4"to2"NB; Quantity: as mentioned in the NIT
4. Valve Pressure Class: Suitable for 70Kg/cm²
5. Type of Valve: Floating Ball Valve
6. Special flow requirement: Full Bore, Through Conduit Type.
7. Design features : Two / Three piece, Swing Out Design, containing Mirror-Finished SS (Solid) floating ball
8. End connection details: Ends (both) : NPT (F) upto 1" NB, 2" NB Flanged Ends Size & Pressure Class: As per ASMEB16.5
9. Valve Operation : Hand Lever operation as applicable.
10. Valve components and material specification (equivalent or superior grade material will also be acceptable)

BODY Material ASTM A105 / ASTM A216 Gr WCB

BALL : ASTM A351 Gr. CF8M / ASTM A182 Gr. F316 / ASTM A217 CA15,

SEAT SEAL : RPT FE STEM ASTM A479SS316 / ASTM A182 F316 STUD BOLTS ASTM A193

GRB7 NUTS ASTM A194 GR2H

11. Valve design conditions : Service Temperature (-) 28 deg C to 65 deg

Service : Sweet Natural Gas

Corrosion allowance : 1.5mm

12. Painting (external) : Zinc Chromate Primer + Aluminum paint

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Tender issued to following parties only:

Sno	V_Code	Vendor Name	City/Country
1	200000	AUDCO INDIA LIMITED	CHENNAI
2	200007	AUTOMECH ENGINEERS PVT LTD	MUMBAI
3	200033	LARSEN & TOUBRO LTD.	MUMBAI
4	200080	FOURESS ENGINEERING (INDIA) LIMITED	KOLKATA
5	200101	MASCOT VALVES PVT. LTD.	AHMEDABAD
6	200363	MACNEIL & MAGOR LTD.	KOLKATA
7	200596	BHARAT HEAVY ELECTRICALS LIMITED	KOLKATA
8	200884	KIRLOSKAR BROTHERS LIMITED	KOLKATA
9	201945	BLISS ANAND PVT. LTD.	GURGAON
10	202423	FOURESS MARKETING INT'L. PVT. LTD.	BARODA
11	202649	KSB PUMPS LIMITED	KOLKATA
12	203117	TIRUPATI INDUSTRIAL STORES	TINSUKIA
13	203177	INDUSTRIAL VALVES & TUBES CO	MUMBAI
14	203179	BANKIM & COMPANY	KOLKATA
15	204069	EMAMI INDUSTRIES LIMITED	KOLKATA