

OIL INDIA LIMITED(A Govt. of India Enterprise)
P.O. Duliajan-786602, Assam.

Fax No. 91-374-2800533, E-mail:material@oilindia.in

Tender No. & Date : DFD2537L14/07 07.02.2014Bid Security Amount : INR 0.00 OR USD 0.00
(or equivalent Amount in any currency)**Bidding Type : Single Bid (Composite Bid)**

Bid Closing On : 28.05.2014 at 13:00 hrs. (IST)

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Performance Guarantee : Not Applicable

OIL INDIA LIMITED have issued Limited tenders to following parties for items detailed below. For General Terms & Conditions, please refer to Document No. MM/GLOBAL/01/2005 available in OIL's web site:

Item No./ Mat. Code	Material Description	Quantity	UOM
10 99066648	Diaphragm operated motor/control valve, direct on line type along with valve positioned as one complete unit to the following specification & general requirement Size:(2") x ANSI 150 class RF Body : Globe, straight, through type. Body materials : Cast carbon steel (ASTM A 216 Gr. WCB). No. of ports : Double Bonnet : Plain bonnet Trim (seat ring & plug) : 316 SS with stellite facing (on seat & entire surface of the plug). Gland type : Bolted gland Seat ring & port size : Full Plug characteristic : Quick opening or throttling with linear or equal percentage characteristic. Stem : Standard Stuffing box packing : ENVIRO SEAL PTFE / equivalent or superior material. Diaphragm material : Chloroprene rubber with fabric reinforced/ equivalent or superior material. Actuator type : Spring loaded pneumatic operated diaphragm Spring range : 0.2 to 1.0 kg / square cm (maximum) Air supply pressure : 1.4 kg / square cm (maximum) Spring materials : Stainless steel (Cadmium plated) Mounting : Field mounted Plug, diaphragm & Stem connection : Clamp type (threaded) Valve positionar : Required Temperature range : 5 degree C to 45 degree C. Actuator action : Field reversible type End connection : Flanged type, raised face as per ANSI B 16.5 specification Air connection : ¼ inch NPT (F) Fluid to be handled : Crude oil + water Seat leakage classification : CLASS IV (as per ANSI/FCI 70-2-2006 Standard) Hysteresis error : 3% FS or less	20	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	Linearity : +/- 5% FS or less Rangeability : 30:1 Noise level: <90 dBA within 1 meter area from the valve. Casing : Weather proof The actuator yoke shall be provided with necessary arrangement for clamping pneumatic pressure indicating controller.		
20 99066649	Diaphragm operated motor/control valve, direct on line type along with valve positioned as one complete unit to the following specification & general requirement Size:50.8 mm(2")x ANSI 300 Class RF Control action - air supply to open, normally closed. Body : Globe, straight, through type. Body materials : Cast carbon steel (ASTM A 216 Gr. WCB). No. of ports : Double Bonnet : Plain bonnet Trim (seat ring & plug) : 316 SS with stellite facing (on seat & entire surface of the plug). Gland type : Bolted gland Seat ring & port size : Full Plug characteristic : Quick opening or throttling with linear or equal percentage characteristic. Stem : Standard Stuffing box packing : ENVIRO SEAL PTFE / equivalent or superior material. Diaphragm material : Chloroprene rubber with fabric reinforced/ equivalent or superior material. Actuator type : Spring loaded pneumatic operated diaphragm Spring range : 0.2 to 1.0 kg / square cm (maximum) Air supply pressure : 1.4 kg / square cm (maximum) Spring materials : Stainless steel (Cadmium plated) Mounting : Field mounted Plug, diaphragm & Stem connection : Clamp type (threaded) Valve positionar : Required Temperature range : 5 degree C to 45 degree C. Actuator action : Field reversible type End connection : Flanged type, raised face as per ANSI B 16.5 specification Air connection : ¼ inch NPT (F) Fluid to be handled : Crude oil + water Seat leakage classification : CLASS IV (as per ANSI/FCI 70-2-2006 Standard) Hysteresis error : 3% FS or less Linearity : +/- 5% FS or less Rangeability : 30:1 Noise level: <90 dBA within 1 meter area from the valve. Casing : Weather proof The actuator yoke shall be provided with necessary arrangement for clamping pneumatic pressure indicating controller.	31	NO
30	Diaphragm operated motor/control valve, direct on line type along with	13	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
99066683	valve positioned as one complete unit to the following specification & general requirement Size:76.2mm(3")XANSI 150 Class RF Control action - air supply to open, normally closed. Body : Globe, straight, through type. Body materials : Cast carbon steel (ASTM A 216 Gr. WCB). No. of ports : Double Bonnet : Plain bonnet Trim (seat ring & plug) : 316 SS with stellite facing (on seat & entire surface of the plug). Gland type : Bolted gland Seat ring & port size : Full Plug characteristic : Quick opening or throttling with linear or equal percentage characteristic. Stem : Standard Stuffing box packing : ENVIRO SEAL PTFE / equivalent or superior material. Diaphragm material : Chloroprene rubber with fabric reinforced/ equivalent or superior material. Actuator type : Spring loaded pneumatic operated diaphragm Spring range : 0.2 to 1.0 kg / square cm (maximum) Air supply pressure : 1.4 kg / square cm (maximum) Spring materials : Stainless steel (Cadmium plated) Mounting : Field mounted Plug, diaphragm & Stem connection : Clamp type (threaded) Valve positioner : Required Temperature range : 5 degree C to 45 degree C. Actuator action : Field reversible type End connection : Flanged type, raised face as per ANSI B 16.5 specification Air connection : ¼ inch NPT (F) Fluid to be handled : Crude oil + water Seat leakage classification : CLASS IV (as per ANSI/FCI 70-2-2006 Standard) Hysteresis error : 3% FS or less Linearity : +/- 5% FS or less Rangeability : 30:1 Noise level: <90 dBA within 1 meter area from the valve. Casing : Weather proof The actuator yoke shall be provided with necessary arrangement for clamping pneumatic pressure indicating controller.		
40 99066684	Diaphragm operated motor/control valve, direct on line type along with valve positioned as one complete unit to the following specification & general requirement Size:76.2mm(3")X ANSI 300 Class RF Control action - air supply to open, normally closed. Body : Globe, straight, through type. Body materials : Cast carbon steel (ASTM A 216 Gr. WCB). No. of ports : Double Bonnet : Plain bonnet Trim (seat ring & plug) : 316 SS with stellite facing (on seat &	16	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>entire surface of the plug). Gland type : Bolted gland Seat ring & port size : Full Plug characteristic : Quick opening or throttling with linear or equal percentage characteristic. Stem : Standard Stuffing box packing : ENVIRO SEAL PTFE / equivalent or superior material. Diaphragm material : Chloroprene rubber with fabric reinforced/ equivalent or superior material. Actuator type : Spring loaded pneumatic operated diaphragm Spring range : 0.2 to 1.0 kg / square cm (maximum) Air supply pressure : 1.4 kg / square cm (maximum) Spring materials : Stainless steel (Cadmium plated) Mounting : Field mounted Plug, diaphragm & Stem connection : Clamp type (threaded) Valve positionar : Required Temperature range : 5 degree C to 45 degree C Actuator action : Field reversible type End connection : Flanged type, raised face as per ANSI B 16.5 specification Air connection : ¼ inch NPT (F) Fluid to be handled : Crude oil + water Seat leakage classification : CLASS IV (as per ANSI/FCI 70-2-2006 Standard) Hysteresis error : 3% FS or less Linearity : +/- 5% FS or less Rangeability : 30:1 Noise level: <90 dBA within 1 meter area from the valve. Casing : Weather proof The actuator yoke shall be provided with necessary arrangement for clamping pneumatic pressure indicating controller.</p>		
<p>50 99066650</p>	<p>Diaphragm operated motor/control valve, direct on line type along with valve positioned as one complete unit to the following specification & general requirement Size:101.6 mm(4") X ANSI 150 Class RF Control action - air supply to open, normally closed. Body : Globe, straight, through type. Body materials : Cast carbon steel (ASTM A 216 Gr. WCB). No. of ports : Double Bonnet : Plain bonnet Trim (seat ring & plug) : 316 SS with stellite facing (on seat & entire surface of the plug). Gland type : Bolted gland Seat ring & port size : Full Plug characteristic : Quick opening or throttling with linear or equal percentage characteristic. Stem : Standard Stuffing box packing : ENVIRO SEAL PTFE / equivalent or superior material. Diaphragm material : Chloroprene rubber with fabric reinforced/</p>	30	NO

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	<p>equivalent or superior material.</p> <p>Actuator type : Spring loaded pneumatic operated diaphragm</p> <p>Spring range : 0.2 to 1.0 kg / square cm (maximum)</p> <p>Air supply pressure : 1.4 kg / square cm (maximum)</p> <p>Spring materials : Stainless steel (Cadmium plated)</p> <p>Mounting : Field mounted</p> <p>Plug, diaphragm & Stem connection : Clamp type (threaded)</p> <p>Valve positionar : Required</p> <p>Temperature range : 5 degree to 45 degree C.</p> <p>Actuator action : Field reversible type</p> <p>End connection : Flanged type, raised face as per ANSI B 16.5 Specification</p> <p>Air connection : ¼ inch NPT (F)</p> <p>Fluid to be handled : Crude oil + water</p> <p>Seat leakage classification : CLASS IV (as per ANSI/FCI 70-2-2006 Standard)</p> <p>Hysteresis error : 3% FS or less</p> <p>Linearity : +/- 5% FS or less</p> <p>Rangeability : 30:1</p> <p>Noise level: <90 dBA within 1 meter area from the valve.</p> <p>Casing : Weather proof</p> <p>The actuator yoke shall be provided with necessary arrangement for clamping pneumatic pressure indicating controller.</p>		
<p>60 99066682</p>	<p>Diaphragm operated motor/control valve, direct on line type along with valve positioned as one complete unit to the following specification & general requirement</p> <p>Size:101.6mm(4")X ANSI 300 Class RF</p> <p>Control action - air supply to open, normally closed.</p> <p>Body : Globe, straight, through type.</p> <p>Body materials : Cast carbon steel (ASTM A 216 Gr. WCB).</p> <p>No. of ports : Double</p> <p>Bonnet : Plain bonnet</p> <p>Trim (seat ring & plug) : 316 SS with stellite facing (on seat & entire surface of the plug).</p> <p>Gland type : Bolted gland</p> <p>Seat ring & port size : Full</p> <p>Plug characteristic : Quick opening or throttling with linear or equal percentage characteristic.</p> <p>Stem : Standard</p> <p>Stuffing box packing : ENVIRO SEAL PTFE / equivalent or superior material.</p> <p>Diaphragm material : Chloroprene rubber with fabric reinforced/ equivalent or superior material.</p> <p>Actuator type : Spring loaded pneumatic operated diaphragm</p> <p>Spring range : 0.2 to 1.0 kg / square cm (maximum)</p> <p>Air supply pressure : 1.4 kg / square cm (maximum)</p> <p>Spring materials : Stainless steel (Cadmium plated)</p> <p>Mounting : Field mounted</p> <p>Plug, diaphragm & Stem connection : Clamp type (threaded)</p> <p>Valve positionar : Required</p> <p>Temperature range : 5 degree C to 45 degree C.</p>	24	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	Actuator action : Field reversible type End connection : Flanged type, raised face as per ANSI B 16.5 specification Air connection : ¼ inch NPT (F) Fluid to be handled : Crude oil + water Seat leakage classification : CLASS IV (as per ANSI/FCI 70-2-2006 Standard) Hysteresis error : 3% FS or less Linearity : +/- 5% FS or less Rangeability : 30:1 Noise level: <90 dBA within 1 meter area from the valve. Casing : Weather proof The actuator yoke shall be provided with necessary arrangement for clamping pneumatic pressure indicating controller.		
70 99066681	Diaphragm operated motor/control valve, direct on line type along with valve positioned as one complete unit to the following specification & general requirement Size:152.4mm (6") X ANSI 150 Class RF Control action - air supply to open, normally closed. Body : Globe, straight, through type. Body materials : Cast carbon steel (ASTM A 216 Gr. WCB). No. of ports : Double Bonnet : Plain bonnet Trim (seat ring & plug) : 316 SS with stellite facing (on seat & entire surface of the plug). Gland type : Bolted gland Seat ring & port size : Full Plug characteristic : Quick opening or throttling with linear or equal percentage characteristic. Stem : Standard Stuffing box packing : ENVIRO SEAL PTFE / equivalent or superior material. Diaphragm material : Chloroprene rubber with fabric reinforced/ equivalent or superior material. Actuator type : Spring loaded pneumatic operated diaphragm Spring range : 0.2 to 1.0 kg / square cm (maximum) Air supply pressure : 1.4 kg / square cm (maximum) Spring materials : Stainless steel (Cadmium plated) Mounting : Field mounted Plug, diaphragm & Stem connection : Clamp type (threaded) Valve positionar : Required Temperature range : 5 degree C to 45 degree C. Actuator action : Field reversible type End connection : Flanged type, raised face as per ANSI B 16.5 specification Air connection : ¼ inch NPT (F) Fluid to be handled : Crude oil + water Seat leakage classification : CLASS IV (as per ANSI/FCI 70-2-2006 Standard) Hysteresis error : 3% FS or less Linearity : +/- 5% FS or less	19	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	Rangeability : 30:1 Noise level: <90 dBA within 1 meter area from the valve. Casing : Weather proof The actuator yoke shall be provided with necessary arrangement for clamping pneumatic pressure indicating controller.		

- Special Notes** :
1. The items shall be brand new, unused & of prime quality. Bidders 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 shipment / dispatch or 12 months from date of receipt of the items. Bidders must confirm the same while quoting.
 2. The minimum FOB/FCA charges in case of partial order for reduced quantity/ items shall have to be indicated by the bidder. In case this is not indicated specifically, the charges quoted would be prorata calculated and the same will be binding on the bidder.
 3. Weight and dimensions of the control valves shall be as per Fisher Type 667 (air to open) or equivalent.
 4. Approval of Drawing:
After placement of order, vendor shall submit final drawing for each category of control valve within a period of 2/3 weeks including the following for our approval:-
 - a) Face to face dimensions of the valve
 - b) Height of the complete valve assembly
 - c) Weight of the complete valve assembly
 5. The vendor shall be responsible for proper selection of Valve with suitable capacity (in terms of Cv) and rangeability for the conditions indicated.
 6. Body & bonnet castings shall be procured from reputed caster approved by any of the OIL approved TPI Agencies or M/s EIL only.
 7. Seat / diaphragm & actuator leakage tests shall be conducted conforming to ANSI B 16.104 (latest edition) only.
 8. Linearity, hysteresis & stem over travel tests shall be conducted as per relevant standard. Test report shall have to be forwarded to us for our scrutiny /record with the supply.
 9. Stem finish shall be less than 4 micron. Cyclic & physical tests on each actuator shall be performed to ensure sound quality of diaphragm & spring.
 10. Other necessary tests on the spring like SCRAP, STIFFNESS & PARALLELISM test shall be conducted & results shall conform to relevant standard & code.
 11. Materials for top & bottom cover in case of actuator shall be from pressed steel duly coated with epoxy or its equivalent. Actuator spring must be cadmium plated.
 12. Manufacturers should mention their identification mark, on each piece supplied. Also, supplier must supply the casting heat no. along with the supply of materials.

13. Fill pressure connections (tubing assembly) of controller & transmitter should be made of stainless steel.

14. Materials shall be accompanied by test certificates for raw materials used, hydraulic test, casting etc. along with inspection report of Third Party Inspection Agency.

15. Bidders shall provide detailed engineering drawings showing dimensional details, specification of materials, technical literature etc. along with the offer for our evaluation.

16. Third Party Inspection:

The Control Valves Shall be Inspected by OIL approved Third Party Inspection (TPI) Agency viz M/s Lloyds/M/s Bureau Veritas/ M/s Rites/M/s DNV/M/s IRS only. The TPI charges shall be quoted separately.

The scope of third party inspection shall be as under:

- a) Verification of certificates for physical and chemical properties of the materials used, in order to confirm different components of the valves as per relevant standard.
- b) Body, bonnet & blind end should be of radiographic quality casting & we require certificate to that extent. Moreover castings should be procured from any of the OIL approved TPI Agencies or M/s EIL only & we require certificates supporting the same.
- c) Third party will carry out necessary inspection to check dimensions of different components that conform to approved drawing / relevant standard.
- d) Linearity & hysteresis flow capacity plug characteristic, Cv tests (one no. against each item), leakage test etc. of the valves shall be carried out & test report for the same must be submitted along with the materials. However, if these are routine tests being carried out by the supplier, then third party inspection agency will inspect & approve the certificates as per the standards.
- e) Body & bonnet of the valves will be hydraulically tested up to rated pressure of the valves. Air test of the valve body is a must. After hydraulic test, the valves shall be thoroughly cleaned, dried & greased prior to despatch.
- f) After testing both ends of the valves shall be closed with suitable protective caps.
- g) Stamping of maker's 3rd party inspector's name on each valve inspected.
- h) Painting of valve - Green colour (Yoke upward).

17. The materials must be embossed with the followings:

- a) OIL'S PURCHASE ORDER NO.
- b) MAUFACTURED FOR OIL.
- c) Manufacturers identification mark.

Note: OIL reserves the right to depute its engineer at final stage of manufacturing for inspection of functional & hydraulic test of the valves at the manufacturing facility. The supplier has to arrange for the inspection accordingly and inform OIL for the same at least 15 days prior to such inspection. Expenditures related to such inspection visit shall be borne by OIL itself. However, inspection by OIL's engineer will remain at its discretion.

18. Validity of the offers should be 120 days from the date of bid opening. Bids with lesser validity shall be rejected.

19. Quotation must be submitted in triplicate.

20. The items covered by this tender shall be used by Oil India Limited in the PEL/ML areas which are issued/renewed after 01/04/99 and hence Nil Customs Duty during import will be applicable. Indigenous bidder shall be eligible for Deemed Export Benefit against this purchase. Details of Deemed Export are furnished vide Addendum to MM/GLOBAL/01/2005 enclosed.

21. **The Integrity Pact** : The Integrity Pact is applicable against this tender .OIL shall be entering into an Integrity Pact with the bidders as per format enclosed with the tender document. This Integrity Pact proforma has been duly signed by OIL's competent signatory. The proforma

has to be returned by the bidder (along with the technical bid) duly signed by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Any bid not accompanied by Integrity pact proforma duly signed by the bidder shall be rejected straightway.

6. The name of the OIL's independent External Monitors at present are as under :

- (i) Shri N. Gopaldaswami, I.A.S. (Retd.)
- (ii) Shri Ramesh Chandra Agarwal, I.P.S.(Retd.)

Their e-mail Ids are available in oil's website www.oil-india.in.

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Bid Closing On : 28.05.2014 at 13:00 hrs.(IST)
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Tender issued to following parties only:

Slno	V_Code	Vendor Name	City/Country
1	100087	BREDA FUCINE SPA	MILAND
2	100092	CONTROL FLOW INC	TEXAS
3	100138	SONAL ENTERPRISES	NEW YORK 10956-5538
4	100211	CAMERON (SINGAPORE) PTE. LTD	SINGAPORE
5	100475	EMERSON PROCESS MANAGEMENT ASIA PAC	
6	100732	PETRO MECH COMPANY INC	KATY
7	100755	ZICOM EQUIPMENT PTE LTD	SINGAPORE
8	100806	FMC TECHNOLOGIES INC.	TEXAS
9	101185	FLOWSERVE PUMP CORPORATION	USA
10	101489	KENT INTROL LTD	HD61QF
11	200033	LARSEN & TOUBRO LTD.	MUMBAI
12	201907	EMERSON PROCESS MANAGEMENT CHENNAI	CHENNAI
13	203084	MIL CONTROLS LTD.	ANNAMANADA
14	203100	FISHER SANMAR LIMITED	KOLKATA
15	203151	FOURESS ENGINEERING (I) LTD	GUWAHATI
16	203439	KENT INTROL PVT. LTD	NASHIK
17	203698	TYCO SANMAR LIMITED	KOLKATA
18	205206	DRESSER VALVE INDIA PVT LTD.	KOLKATA
19	207101	BRIGHTTECH VALVES AND CONTROLS PVT.	AHMEDABAD