

OIL INDIA LIMITED
(A Govt. of India Enterprise)
Udyan Vihar, Narengi, Guwahati,
Assam

Fax-91 0361 2643686
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Tender No. & Date : GOD6943L10/1L 11.02.2010

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 : 22.04.2010 at 13:00 hrs. (IST)
Bid Opening On : 22.04.2010 at 13:00 hrs. (IST)

Performance Guarantee : Not Applicable

OIL INDIA LIMITED invites Limited tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
10 0C000295	<p>PRESSURE TRANSMITTER UNITS</p> <p>General</p> <ol style="list-style-type: none"> 1. Function:Transmit and Indicate 2. Type:Electronic, Smart With HART Protocol 3. Case:Manufacture Standard 4. Mounting:Yoke(2inch NB Pipe Mounting) 5. Electrical Area Classification :Zone-1,GR II A/II B 6. Enclosure:WP to IP-65 as Per IS -13947 7. Hazardous Area Protection:Intrinsically Safe 8. Air Supply:N/A 9. Power Supply: 10. Cable Entry:1/2" NPTF(two no) 11. Accuracy:±0.075% of Calibrated Span (Including Linearity, Hysteresis & Repeatability) 12. Repeatability:±0.1% FSD <p>Transmitter</p> <ol style="list-style-type: none"> 13. Out Put:4-20 mA DC(Note A-1 & 2) 14. Transmitter Power Supply:24 V DC(Two Wire) 15Service:Differential Pressure Measurement 16. Element:Diaphragm 17. Body Material:Carbon Steel 18. Element Material: SS 316 19. Process Connection: 1/2" NPTF Process Connection Location: Bottom 20. Diaphragm Seal:N/A 21. Static Pressure Rating:100 kg or 130% of Max Pressure which ever is higher 22. Options <ol style="list-style-type: none"> a. Intrinsically Safe O/P Metter: Required b. Mounting Accessories: (Bracket Bolts & Nuts Suitable):For 2" Pipe Mounting: Required 23.Flame proof double compression SS cable gland certified by DGMS is required 24.Process: Liquid(HSD,MS,SKO) 	1	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	25.Service:Gauge Pressure 26.Range: 0 - 10 kg/cm ²		
20 0C000295	<p>PRESSURE TRANSMITTER UNITS</p> <p>General</p> <ol style="list-style-type: none"> 1. Function:Transmit and Indicate 2. Type:Electronic, Smart With HART Protocol 3. Case:Manufacture Standard 4. Mounting:Yoke(2inch NB Pipe Mounting) 5. Electrical Area Classification :Zone-1,GR II A/II B 6. Enclosure:WP to IP-65 as Per IS -13947 7. Hazardous Area Protection:Intrinsically Safe 8. Air Supply:N/A 9. Power Supply: 10. Cable Entry:1/2" NPTF(two no) 11. Accuracy:±0.075% of Calibrated Span (Including Linearity, Hysteresis & Repeatability) 12. Repeatability:±0.1% FSD <p>Transmitter</p> <ol style="list-style-type: none"> 13. Out Put:4-20 mA DC(Note A-1 & 2) 14. Transmitter Power Supply:24 V DC(Two Wire) 15Service:Differential Pressure Measurement 16. Element:Diaphragm 17. Body Material:Carbon Steel 18. Element Material: SS 316 19. Process Connection: 1/2" NPTF Process Connection Location: Bottom 20. Diaphragm Seal:N/A 21. Static Pressure Rating:100 kg or 130% of Max Pressure which ever is higher 22. Options <ol style="list-style-type: none"> a. Intrinsically Safe O/P Metter: Required b. Mounting Accessories: (Bracket Bolts & Nuts Suitable):For 2" Pipe Mounting: Required 23.Flame proof double compression SS cable gland certified by DGMS is required 24.Process: Liquid(HSD,MS,SKO) 25.Service:Gauge Pressure 26. Range: 0- 30kg/cm² 	1	NO
30 0C000295	<p>PRESSURE TRANSMITTER UNITS</p> <p>General</p> <ol style="list-style-type: none"> 1. Function:Transmit and Indicate 2. Type:Electronic, Smart With HART Protocol 3. Case:Manufacture Standard 4. Mounting:Yoke(2inch NB Pipe Mounting) 5. Electrical Area Classification :Zone-1,GR II A/II B 6. Enclosure:WP to IP-65 as Per IS -13947 7. Hazardous Area Protection:Intrinsically Safe 	4	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>8. Air Supply:N/A 9. Power Supply: 10. Cable Entry:1/2" NPTF(two no),for one no. of entry stop plug is required 11. Accuracy:±0.075% of Calibrated Span (Including Linearity, Hysteresis & Repeatability) 12. Repeatability:±0.1% FSD</p> <p>Transmitter 13. Out Put:4-20 mA DC(Note A-1 & 2) 14. Transmitter Power Supply:24 V DC(Two Wire) 15Service:Differential Pressure Measurement 16. Element:Diaphragm 17. Body Material:Carbon Steel 18. Element Material: SS 316 19. Process Connection: 1/2" NPTF Process Connection Location: Bottom 20. Diaphragm Seal:N/A 21. Static Pressure Rating:100 kg or 130% of Max Pressure which ever is higher 22. Options a. Intrinsically Safe O/P Metter: Required b. Mounting Accessories: (Bracket Bolts & Nuts Suitable):For 2" Pipe Mounting: Required 23.Flame proof double compression SS cable gland certified by DGMS is required 24.Process: Liquid(HSD,MS,SKO) 25.Service:Gauge Pressure 26. Range: 0-100kg/cm²</p>		
<p>40 OC000295</p>	<p>PRESSURE TRANSMITTER UNITS</p> <p>General 1. Function:Transmit and Indicate 2. Type:Electronic, Smart With HART Protocol 3. Case:Manufacture Standard 4. Mounting:Yoke(2inch NB Pipe Mounting) 5. Electrical Area Classification :Zone-1,GR II A/II B 6. Enclosure:WP to IP-65 as Per IS -13947 7. Hazardous Area Protection:Intrinsically Safe 8. Air Supply:N/A 9. Power Supply: 10. Cable Entry:1/2" NPTF(two no) 11. Accuracy:±0.075% of Calibrated Span (Including Linearity, Hysteresis & Repeatability) 12. Repeatability:±0.1% FSD</p> <p>Transmitter 13. Out Put:4-20 mA DC(Note A-1 & 2) 14. Transmitter Power Supply:24 V DC(Two Wire) 15Service:Differential Pressure Measurement 16. Element:Diaphragm 17. Body Material:Carbon Steel 18. Element Material: SS 316</p>	1	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	19. Process Connection: 1/2" NPTF Process Connection Location: Bottom 20. Diaphragm Seal:N/A 21. Static Pressure Rating:100 kg or 130% of Max Pressure which ever is higher 22. Options a. Intrinsically Safe O/P Metter: Required b. Mounting Accessories: (Bracket Bolts & Nuts Suitable):For 2" Pipe Mounting: Required 23.Flame proof double compression SS cable gland certified by DGMS is required 24.Process: Liquid(HSD,MS,SKO) 25.Service:Gauge Pressure 26.Range: 0-150KG/CM2		
50 OC000295	Differential PRESSURE TRANSMITTER General 1. Function:Transmit and Indicate 2. Type:Electronic, Smart With HART Protocol 3. Case:Manufacture Standard 4. Mounting:Yoke(2inch NB Pipe Mounting) 5. Electrical Area Classification :Zone-1,GR II A/II B 6. Enclosure:WP to IP-65 as Per IS -13947 7. Hazardous Area Protection:Intrinsically Safe 8. Air Supply:N/A 9. Power Supply: 10. Cable Entry:1/2" NPTF(two no) 11. Accuracy:±0.075% of Calibrated Span (Including Linearity, Hysteresis & Repeatability) 12. Repeatability:±0.1% FSD Transmitter 13. Out Put:4-20 mA DC(Note A-1 & 2) 14. Transmitter Power Supply:24 V DC(Two Wire) 15Service:Differential Pressure Measurement 16. Element:Diaphragm 17. Body Material:Carbon Steel 18. Element Material: SS 316 19. Process Connection: 1/2" NPTF Process Connection Location: Bottom 20. Diaphragm Seal:N/A 21. Static Pressure Rating:100 kg or 130% of Max Pressure which ever is higher 22. Options a. Intrinsically Safe O/P Metter: Required b. Mounting Accessories: (Bracket Bolts & Nuts Suitable):For 2" Pipe Mounting: Required 23.Flame proof double compression SS cable gland ,5 way manifold certified by DGMS is required 24.Process: Liquid(HSD,MS,SKO) 25.Service:Differential Pressure 26. Range: 0-1KG/CM2	1	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
60 0C000295	<p>LEVEL TRANSMITTER</p> <p>SPECIFICATION OF LEVEL TRANSMITTER (Chemtrols make,model no. C144LD 41-K-I-H-EXI-L OR Equivalent)</p> <p>Level Transmitter is used for measurement and transmission of liquid level by sensing changes in buoyancy force exerted on a fixed displacer element. The buoyancy force is converted to a 4-20mA output.</p> <p>(i) Displacer length -1350mm (ii) Accuracy - $\pm 0.2\%$ (iii) Output -4-20 mA (iv) Connection -HART (v) Supply Voltage -DC +24V (vi) Ambient Temperature - 0° - 40°C (vii) Electrical Connection -1/2" NPTF (viii) Mounting -(a) Between flanges for sumh tank (b) Side mounting with cage for corrosion Inhibitor</p> <p>Dosing Tank</p> <p>(ix) Transmitter Body Material - SS 316 (x) Transmitter weatherproof Protection -IP66 (xi) Pressure Class -150" (xii) Measuring element - Thin film metal strain gauge element. (xiii) Level transmission should be by torque tube. (xiv) Convenient Operation with local keys (xv) Torque tube housing(size & rating)-4 inch, ANSI class 150 (xvi) Torque Tube Housing Material -Carbon Steel (xvii) Torque Tube Material -INCONEL 600 (xviii) Displacer & Suspension Material -SS316 (xix) Area Classification -Intrinsically Safe. (xx) Density -(710 to 850) Kg/m³ (xxi) Fluid -MS, SKO & HSD.</p>	2	NO
70 0C000295	<p>LEVEL SWITCH</p> <p>Specification of LEVEL SWITCH (Displacer Operated) (Equivalent of CHEMTROL SAMIL MODEL SERIES 700)</p> <p>Basic operation principle provides for magnetic switch action resulting from a change in liquid level, which moves a magnetic attraction sleeve into the field of an externally located magnet. The displacer type level switch should provide for wide switching differential and should allow for attraction of the switching point by moving the displacer up and down the suspension cable.</p> <p>(i) Rating type -Internal top mounted. (ii) Flange Size & rating -4", 150" (iii) Flange Material -A105 (iv) Flange facing -RF (v) Displacer Material -SS316 (vi) Displacer length -73mm (vii) Spring Material -SS316</p>	2	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	(viii) Magnetic Sleeve -CS Galvanized. (ix) Sleeve Pipe - SS 316 (x) Switch Housing & Cover Material -Die cast Aluminum (xi) Weatherproof Enclosure - IP66 (xii) Electrical cable Entry -1/2" NPTF (xiii) Cable gland material - Double Compression Nickel plated Brass (xiv) Function -Low & high level (xv) Output -Contact (xvi) Switch Quantity & form -2, SPDT (xvii) Differential -Fixed 35 + / - 5mm (xviii) Switch type -Snap Action Micro. (xix) Switch Contact rating -Silver Plated (xx) Switch Contact entry -5A, 230V AC (xxi) Operating Temperature - 0° - 40° C (xxii) Fluid -MS, SKO, HSD (xxiii) Density -(710 to 850) Kg/m ³ (xxiv) No. of set points -2 (Low level & high level)		

Special Notes : 1.For item No.10 to 50:

- i) Transmitter shall be suitable for external loop resistance of at least 600 ohms when powered with 24 V DC from control room.
 - ii) Output 4-20 mA DC shall be superimposed on digital signal.
 - iii) Digital communication shall be possible with hand held Hart Communicator.
 - iv) All transmitters shall have DGMS approval certificate or equivalent.
 - v) Intrinsically safe output meter (integral with transmitter) shall be provided.
2. Operation & maintenance manual with complete card layout and PCB details (up to IC level), necessary for repair of electronics of all modules including their detailed interconnection diagram, shall be provided by the selected bidder against the item. Detailed programming, calibration and trouble shooting procedures shall also be provided in the manual
3. Vendor's quotation shall enclose data, catalogues, detailed drawing and other information which shall provide all the details regarding type, construction materials, construction details etc. for each type of item covered in the bid.
4. Bidders shall attach a list of, summing up all the deviations, if any, from the purchaser's data sheets against each item. The vendor shall provide compliance statement for every point, serially, as mentioned in the specification. Also, bidder or should provide reasons for these deviations wherever possible. Any offer not conforming to this shall be liable for rejection.
5. Bidders shall make his offer in detail, with respect to every item of the NIT specifications.
6. Price break-up of every item, mentioned in the quotation, shall be provided.
7. In case of more than one model, it shall be mentioned as optional one.

8. For item No. 60 & 70 :

a) DGMS approval or equivalent certificate is required.

b) The manufacturer shall have ISO certification for Quality Management System.

8. Bidders other than OEM, must submit valid authorized dealership/authorization certificate from OEM alongwith their offer, failing which offer will be liable for rejection.

9. To evaluate the inter-se ranking of the offers, Assam Entry Tax on purchase value will be loaded as per prevailing government of Assam Guidelines as applicable on bid closing date. Bidders may check this With the appropriate authority, while submitting their bids.

10. Bidder should quote transportation charges on actual separately if not included in basic price. Transportation charges has to be quoted for transportation by mode as below :-

i) For consignments weighing around 50 Kgs, Actual transportation charge to be quoted for transportation by courier service (Air/Road).

ii) For consignment weighing more than the weight mentioned in Sl.No.(i), actual transportation cost shall be quoted for transportation by Road transport.

11. Please confirm acceptance of NIT payment terms .

12. Terms and conditions applicable to this tender is enclosed vide Annexure II to VI.

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Bid Closing On : 22.04.2010 at 13:00 hrs.(IST)
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Tender issued to following parties only:

Slno	V_Code	Vendor Name	City/Country
1	200061	V AUTOMAT & INSTRUMENTS PVT. LTD	NEW DELHI
2	200641	CHEMTROLS INDUSTRIES LTD.	MUMBAI
3	201151	TOSHNIWAL ENTERPRISES	KOLKATA
4	201642	ABB INSTRUMENTATION LIMITED	KOLKATA
5	202103	INDFOSS INDUSTRIES LTD	GHAZIABAD
6	202126	FISHER ROSEMOUNT (INDIA) LTD	KOLKATA
7	205113	WAAREE INSTRUMENTS LTD.	KOLKATA
8	208485	SWITZER INSTRUMENT LIMITED	KOLKATA