

Tender No. : DID4859L15/L6
Tender Date : 12.09.2014
Bid Closing On : 30.10.2014 at 13:00 hrs.(IST)
Bid Opening On : 30.10.2014 at 13:00 hrs.(IST)

Tender issued to following parties only:

Slno	V_Code	Vendor Name	City/Country
1	201151	TOSHNIWAL ENTERPRISES	KOLKATA
2	202086	APLAB LIMITED	KOLKATA
3	203577	ARADHANA AGENCY	GUWAHATI
4	204114	JOST'S ENGINEERING CO. LTD.	KOLKATA
5	204139	POWERGRIPP UNIVERSAL	SIBSAGAR
6	204856	PRATIK ENGINEERING SERVICES	TINSUKIA
7	208172	SMART SYSTEMS	DIBRUGARH
8	209881	PCI LIMITED	KOLKATA
9	210783	TTL INDIA PVT.LTD.(A FLUKE COMPANY)	MUMBAI
10	211456	SCIENTIFIC MES-TECHNIK PVT. LTD,	KOLKATA
11	211457	ELECTRICALS ELECTRONICS ENTERPRISE	CHENNAI

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

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

Tender No. & Date : DID4859L15/L6 12.09.2014

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

Bidding Type : Single Bid (Composite Bid)

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Performance Guarantee : Not Applicable

OIL INDIA LIMITED invites Limited tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
10 0C000062	<p>(A) Instrument should have the following Features & Technical Specifications:</p> <p>#Built-in pressure / vacuum hand pump with vernier and bleed valve.</p> <p>#Capable of generating Vacuum/Pressure from -12 PSI to 300 PSI, (-850 mbar to 20.68 bar, -85 to 2068.42 kPa) by built-in hand pump.</p> <p>#Instrument should be complete with inbuilt pressure sensor of -12 psi to 300 psi, (-850 mbar to 20.68 bar, -85 to 2068.42 kPa) range.</p> <p>#Pressure measurement Accuracy : 0.05% of full scale, Resolution: 0.01 psig.</p> <p>#Capable of measuring pressure up to 10,000 psi using external pressure module.</p> <p>#Should have selectable 11 different engineering units (psi, inH₂O, cmH₂O, bar, mbar, kpa, inHg, mmHg, Kg/cm.sq etc.).</p> <p>#Instrument should be light enough to carry to field. Weight should be within 1000 grms.</p> <p>#Should have Zero, Min, Max, Hold, Damp functions.</p> <p>#Should be able to calibrate pressure to current transmitters with simultaneous pressure and milliamps measurements.</p> <p>#Vibration: Random, 2 g, 5 Hz - 500 Hz</p> <p>#Must have intrinsically safe safety certification in accordance with CSA C22.2 No. 1010.1: 1992 And EMC in accordance with EN50082-1: 1992 and EN55022: 1994 Class B</p> <p>#Current measurement up to 24 mA with 0.015% accuracy and 0.001mA resolution.</p> <p>#Loop supply: 24V DC with accuracy of + 10%</p> <p>#Power : Rechargeable Battery operated. As well as 9 Volts battery should be easily replaceable. Battery life should be 4 to 20 hours typical depending on functions used.</p> <p>#Meter should be shock proof upto 1 meter drop.</p> <p>#Operating temperature : -10 to 50 deg C.</p> <p>#Display : 5 digit large LCD display with pressure and current simultaneous display.</p> <p>#NIST- traceable certificate of calibration should be provided along with the instrument.</p> <p>#Optional Pressure Module should be LEMO type connector</p> <p>#Over pressure 2 X FS</p>	2	NO

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	<p>#Meter should be housed in Rugged casing with protective holster. #Should have CE and CSA safety marking on the instrument. #Should have three years warranty on the instrument and one year on the inbuilt pressure pump. (B)Instrument should be supplied with following accessories; i) Protective Holster. ii) Test leads & clips - one set. iii) Silicon Right angle Test lead iv) Alligator clips v) Premium Tool Bag for carrying instrument and all accessories. vi) 9V battery. vii) Instruction & maintenance manual. viii) User manual in CD-ROM. ix) One external Intrinsically Safe Pressure Module with specifications: Range: 0 to 3000 psi, Resolution: 0.1 psi, High side media: C276, Accuracy: 0.05%, Stability for one year: 0.01 % , Metric adopter 1/4" NPT (F) to %" BSP/ISO (M) - 1 no. xi) One external Intrinsically Safe Differential Pressure Module with following specifications: Range: 0 to 15 psi, Resolution: 0.001 psi, High side media: 316SS, Accuracy: 0.05%, Stability for one year: 0.01 % , Metric adopter 1/4" NPT (F) to 1/2" BSP/ISO (M) - 1 no. xii) Pressure Relief Valve Kit adjustable from 725-2900 psi and 2900-5800 psi,Material: Type: 303 stainless steel, Weight: max 60g , Warranty: One year xiii) 1 micron, 100 psi in line filter to isolate the calibrator from liquid contamination. Input is 1/8" NPT female. Output is 1/8" NPT male- 5 nos. xiv) 3 sets of adaptors to be supplied to connect pressure calibrator to instrument under test through hose. xv) Silicon Right angle Test lead and Alligator clips one set. xvi) NIST traceable calibration certificates.</p>		
20 0C000062	<p>(A)Instrument should have the following Features & Technical Specifications: 1.Should be capable of measuring current and voltage; simulate current; source current with large display and simple, quick-click push rotary button for easy one-handed operation. 2.Should have push button for 25% steps for fast, easy linearity checks 0-100% "span check" for fast confirmation of zero and span. 3.Should have function for selectable slow ramp, fast ramp, and step ramp to provide smooth outputs for valve slewing and loop functional tests. 4.Innovative output adjustment dial with 1 iA and 100 iA resolution. 5.Should have certification in accordance with the ATEX directive (Ex II 2 G Eex ia IIC T4) in Zones 1 and 2. 6.Should have compatibility with HART transmitters. 7.Voltage measure Range: 0 to 28 V, Resolution 0.001 V, Accuracy: \pm 0.015% of reading 8.mA measure Range: 0 to 24 mA, Resolution: 0.001 mA, Accuracy: 0.015% of reading 9.mA source Range: 0 to 24 mA, Resolution: 0.001 mA, Accuracy: 0.015% of reading 10.mA simulate Range: 0 to 24 mA, Resolution: 0.001 mA, Accuracy: 0.015% of reading</p>	2	NO

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	11. Loop supply : 24 V 12. Operating temperature: -10 to 50 °C 13. Shock and vibration : Per MIL-T-28800 for a Class 2 Instrument 14. Safety : CSA C22.2 No. 1010.1: 1992 15. ATEX Certification: Ex II 2 G Eex ia IIC T4 Zones 1 and 2, ZELM 02 ATEX 0120 X 16. CE certification: EN61010-1 and EN61326 17. Battery : One 9 V alkaline 18. Warranty : Minimum 1 year (B) Instrument should be supplied with following accessories; i) Protective Holster. ii) Test leads & clips - one set. iii) 9V alkaline battery iv) Instruction manual v) NIST traceable calibration certificate		
30 0C000062	(A) The instrument should have following features and Technical specifications: 1. Pressure sensors should be inbuilt inside the instrument and should not be detachable from outside. 2. Should measure and calibrate differential pressure transmitters in the range of -12 to 100 PSID (-0.8 to 7 Bar). 3. Accuracy for Pressure measurement : $\pm 0.025\%$ 4. LCD with backlight should be configurable to display up to 2 inputs simultaneously. 5. The instrument should be able to store five frequently used setups and last setup should be automatically recalled on power-up. 6. Should have % Error and damping functions. 7. mA measurement range : 0 to 24.000 mA, Accuracy: $\pm 0.015\%$ of reading 8. RTD range : -40°C to 105°C 9. Engineering Units: psi, bar, mbar, kPa, kg/cm ² , cmH ₂ O@4°C, cmH ₂ O@20°C, mH ₂ O@4°C, mH ₂ O@20°C, inH ₂ O@4°C, inH ₂ O@20°C, inH ₂ O@60°F, mmHg@0°C, inHg@0°C, ftH ₂ O@4°C, ftH ₂ O@20°C, ftH ₂ O@60°F, 2 user specified custom units 10. Operating Temperature: -10 °C to +50 °C 11. Weight: maximum 1 Kg 12. Physical Dimensions: Maximum 10 inch H x 4.0 inch W x 2 inch D 13. Connectors/Ports Pressure: Two, 1/8" NPT 14. Intrinsic Safety certification: Ex ia IIB T3 Gb (Ta=#10... +45°C) KEMA 10 ATEX 0168X 0344 Ex ia IIB T3 Gb (Ta=#10... +45°C) II 2 G IECEx CSA 10.0013X (B) Instrument should be supplied with following accessories; i) Soft case ii) Batteries iii) Manual iv) NIST-traceable calibration certificate v) Pressure Hose vi) Pneumatic Pressure Pump	2	NO

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	vii) Necessary adaptors for connecting UUT and the instrument for calibration.		
40 0C000384	<p>(A) Instrument should have the following Features & Technical Specifications:</p> <ol style="list-style-type: none"> 1. Autoranging/manual range selection. 2. DATA HOLD function, for holding measured values. 3. Relative function, to make measurements relative to a stored reference value. 4. MAX/MIN function. 5. PEAK HOLD function. 6. Memory for 2000 measurement results. 7. Continuity test with acoustic signalling (beeper). 8. AUTO-OFF function. 9. Diode test/ Continuity <p>Technical Specification:</p> <p>DC Voltage Range: 0-1000V, Best Resolution: 0.01 mV, Best Accuracy: + 0.1 % of measure value</p> <p>AC Voltage Range: 0-1000V, Best Resolution: 0.01 mV, Best Accuracy: + 1.0 % of measure value</p> <p>AC/DC Current Range: 0-10A, Best Resolution: 0.01 μA, Best Accuracy: + 1.0 % of measure value</p> <p>Resistance measurement Range: 0-40MΩ, Best Resolution: 0.01 Ω, Best Accuracy: + 0.3 % of measure value.</p> <p>Capacitance measurement Range: 0-40mF, Best Resolution: 0.001nF, Best Accuracy: + 3.0 % of measure value.</p> <p>Frequency measurement Range: 0-100MHz, Best Resolution: 0.001 Hz, Best Accuracy: + 0.1 % of measure value.</p> <p>Duty cycle measurement Range: 0.1 to 99.9%, Best Resolution: 0.01%, Best Accuracy: + 1.0 % of measure value</p> <p>Temperature measurement Range: -50°C...+1200°, Best Resolution: 0.1°C, Best Accuracy: \pm 3% of measure value</p> <p>Power supply: 9V battery</p> <p>Over range indication: OL displayed</p> <p>Sampling rate: 2 times per second</p> <p>Display: 40000 counts backlit LCD with bargraph, 4$\frac{3}{4}$ digits</p> <p>Accordance with following standards: EN 61010-1:2004 EN 61010-2-032</p> <p>Quality standard: ISO 9001</p> <p>Type of insulation: double, according to EN 61010-1 and IEC 61557</p> <p>Measurement category: CAT III 1000V acc. to EN 61010-1:2004</p> <p>Protection class acc. to EN 60529: IP67</p> <p>Warranty: Minimum One year</p> <p>(B) Instrument should be supplied with following standard accessories;</p> <ol style="list-style-type: none"> i) Test leads ii) Battery iii) Temperature probe iv) Operating manual v) Test certificate v) Carrying case vi) NIST traceable calibration certificates. 	7	NO

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50 0C000062	<p>(A) Instrument should have the following Features & Technical Specifications:</p> <ol style="list-style-type: none"> 1. Instrument should be for non-contact temperature measurement and contact temperature measurement. 2. Should have DATA HOLD, AUTO-OFF, Automatic range selection, High and low alarm, Backlit LCD, Trigger lock., Memory LOG of minimum 100 measurement results, over range indication functions. 3. Unit for temperature should be switchable for °C and °F. 4. Emissivity should be digitally adjustable from 0.10 to 1.00. 5. Temperature display for maximum, minimum, average and difference. 6. IR temperature range: -50 to 1600°C, Resolution: 0.1°C, Best Accuracy: + 1.0 % of measured value 7. Contact type temperature measuring range: -50 to 1300°C, Resolution: 0.1°C, Best Accuracy: + 1.5 % of measured value 8. Distance to source ratio: 50:1 9. Rapid detection of temperature changes should below 150ms 10. Should have Dual laser pointer. 11. Should have software for downloading data to PC with USB. 12. Operating temperature: 0 to 50°C 13. Diode laser: Output <1mW, wave length 630~670nm, class 2 laser product <p>(B) Instrument should be supplied with following standard accessories;</p> <ol style="list-style-type: none"> i) Battery ii) USB cable iii) PC software iv) K type temperature probe v) Mini tripod vi) Carrying case vii) Operating manual 	1	NO
60 0C000062	<p>(A) Instrument should have the following Features & Technical Specifications:</p> <p>Description: The pressure pump capable to generate pressure up to 10,000 psi/700 bar..</p> <p>The pump should have two pressure ports:</p> <ul style="list-style-type: none"> # 3/8-BSP (ISO228) female parallel thread fitting for the reference gauge or pressure module # 1/8-BSP (ISO228) female parallel thread fitting for the unit under test # Material: Stainless steel # Weight: Max 2 kg # Warranty: Min One year <p>The pump should included with :</p> <ol style="list-style-type: none"> 1. Adapter to connect the reference gauge port on the pump body to the 1/4 NPT male fitting on external transducer 	2	NO

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	2. One-meter nylon hose to attach the unit under test. The hose should terminate in a 1/4-BSP (ISO228) female parallel thread fitting 3. Adapter to convert the 1/4-BSP female parallel thread fitting to a 1/4 NPT female 4. Replacement seal kit 5. Instruction sheet 6. Pressure Module: 10,000 PSI/ 700 BAR		

Standard Notes: (1) VALIDITY : Your offer must be valid for 75 days from the date of bid opening. Offer with inadequate validity will be rejected.

(2) The offer should be submitted in Duplicate.

(3) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of a sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).

(4) In the event you authorize your dealer/stockist/channel partner to quote on your behalf, the dealer/stockist/channel partner while submitting bid should mention on the body of the envelope that they are submitting bid on your behalf.
In the event the dealer/stockist/channel partner do not mention the name of their OEM/principal on the body of the envelope, the offer shall be treated as unsolicited offer and will not be considered for opening.
The dealer/stockist/channel partner should take note of above while submitting bid on behalf of their OEM/principal.

(5) For order with F.O.R. Destination term, 100% payment against despatch documents will not be entertained. In this regards please refer payment terms in ANNEXURE-MM/TENDER/LP/01/06.

(6) 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.

(7) Bidder must mention page no./nos. in every pages of their offer.

(8) Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

(9) Bidder should clearly mention their name and address on the outside of the envelope containing their offer.

Special Notes : 1. All the equipments are to be guaranteed against any manufacturing defects for a minimum period of 12 months from the date of commissioning or 18 months from the date

of receipt.

2. Quotation must be accompanied with original relevant catalogue / literature and drawing. Otherwise, offer will not be technically acceptable.
3. The offer must be submitted along with sample NIST traceability certificate without which it will be liable for rejection.
4. A copy of valid Dealership certificate / Letter of Authorization of the authorized dealer / OEM must be submitted along with the quotation, if the material is quoted by the authorized dealer; failing which offer will be rejected.
5. The material supply should be accompanied with test, calibration and warranty / guarantee certificates.
6. Quotation should be forwarded in a tabular form, enlisting the compliance and deviations of the technical specifications for ease in scrutiny.
7. Each instruments should be supplied with a valid test and calibration certificate from a test laboratory accredited to NABL.
8. Packing must be adequate to avoid transit damages.