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(A Govt. of India Enterprise)
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ANNEXURE-I

Tender No. : GOD3755L15/3H
Tender Date : 31.05.2014

Item No./ Mat. Code	Material Description	Quantity	UOM
10 0C000394	<p>DIGITAL SCOPEMETER/OSCILOSCOPE</p> <p>2 CHANNEL DIGITAL SCOPEMETER</p> <p>SPECIFICATIONS OF 2 CHANNEL DIGITAL SCOPEMETER</p> <p>The 2 channel digital scopemeter or oscilloscope with DMM and data logger capability shall be portable handheld meeting the following specifications at the minimum.</p> <ol style="list-style-type: none"> 1. Number of channel: Minimum 2 (Two). 2. Bandwidth: Minimum 200 MHz. 3. Sampling Rate: Minimum 1 GS/s each channel for simultaneous dual channel operation. 4. Vertical resolution: Minimum 8-bit. 5. Peak or Glitch detection: 8 ns or less. 6. Recording length: Min 10,000 samples per channel. 7. Maximum Input: Minimum CAT III 300Vrms with 1:1 probe. 8. Input impedance: 1 MOhm \pm 1% and 22 pF \pm 3 pF. 9. Input coupling: DC, AC. 10. Bandwidth limiter: 20kHz, 20 MHz (selectable). 11. Time base: Minimum 5 ns/div. 12. Automatic scope measurements: Delay, duty cycle, fall and rise time, frequency, period, average, maximum, minimum, peak-to-peak, power, power factor, Vrms (AC/DC), AC and DC current etc. 13. Cursors: Voltage difference and time difference between cursors. 14. Capability of FFT based frequency spectrum analysis. 15. Display: Min 5.5 inch full color LCD. 16. Real Time Clock: Minimum Date and time (adjustable). 17. Language: English at the Minimum. 18. Save/ recall capability for minimum 10 waveforms. 	1	NO

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	<p>19. Storage and PC Communication: USB 2.0 ports.</p> <p>20. IP rating: Minimum 41.</p> <p>21. DMM capability: Minimum 5000 count.</p> <p>22. Data logger/recorder capability with recording time span upto 48 hours minimum.</p> <p>23. Weight: Not more than 2.5 kg.</p> <p>24. Warranty: Minimum 3 years for the main unit and minimum 3 months for the standard shipped accessories.</p> <p>25. Temperature (working & storage): 0 oC to +40 oC.</p> <p>26. Humidity: 0 to 80% RH @ 10 oC to +30 oC.</p> <p>27. Safety compliance: EN 61010-1:2001.</p> <p>28. EMC compliance: EN 61326-1:2005.</p> <p>29. Power Supply: Li-Ion battery pack with adapter for 50Hz, 230 VAC nominal input.</p> <p>30. Standard accessories like required Test Leads and Probes, USB cable, Battery, Adapter etc. shall be supplied along with the meter. All items should be mentioned in detail</p> <p>31. Accessories: Bidder to quote ADDITIONALLY accessories/spares (like various test leads and probes, fuses, suitable carrying and hard storage cases, battery, Desktop charger etc.) associated with the instrument in addition to the standard accessories to be supplied. These accessories will not be considered for price comparison and purchase of the same will be at OIL#s discretion.</p>		
<p>20 0C000001</p>	<p>4 1/2 DIGITAL MULTIMETER</p> <p>I. ITEM : Digital Multimeter</p> <p>II. Included Accessories</p> <p>a. Leadset -2 x 1 m plug in leads(1 red, 1 black)</p> <ul style="list-style-type: none"> - Alligator Clips - Others ,as part of the model offered(Details to be provided) <p>b. Batteries - As required (Details to be provided)</p> <p>c. Fuses - As required (Details to be provided)</p> <p>d. Spare Fuses - 2 sets</p> <p>e. Carrying case</p> <p>f. User Manual ,</p> <p>g. Operating Instruction book</p> <p>III. TECHNICAL SPECIFICATIONS</p>	1	NO

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	Function Range & resolution Basic accuracy DC Volts 600mv,6v,60v,600v,1000v -0.05% AC Volts 600.0mV,6.000V,60.00V,600.0V,1000V -0.7%(True-rms) DC Current 600.0µA,6000µA,60.00mA,600.0mA,6.000A,10.00A 0.2% AC Current 600.0µA,6000µA,60.00mA,600.0mA,6.000A,10.00A 1.0%(True-rms) Temperature -10 to 150 °C -1.0% Resistance 600.0 Ohm, 6.000 k Ohm,60.00k Ohm,600.0k Ohm ,6.000M Ohm,50.00M Ohm-0.2% Capacitance10.00nF,100.0nF,1.000µF,10.00µF,100.0µF,9,999µF -1.0% Frequency 199.99Hz,1.9999KHz,19.999kHz,199.99kHz 0.005% IV. Clause by Clause compliance statement to be provided		
30 0C000001	SAME AS ITEM 20	1	NO
40 0C000001	SAME AS ITEM 20	1	NO
50 0C000001	SAME AS ITEM 20	1	NO
60 0C000001	SAME AS ITEM 20	1	NO
70 0C000001	SAME AS ITEM 20	1	NO
80 0C000001	SAME AS ITEM 20	1	NO
90 0C000001	SAME AS ITEM 20	1	NO
100 0C000001	AVOMETER (General purpose ,portable,analogue multimeter) i. ITEM : Analogue Multimeter Avometer ii. Included Accessories a.Leadset -2 × (48")plug in leads(1 red, 1 black), each with combination probe tip and removable rubber sleeved alligator clip -2 × insulated clips (1 red, 1 black) -2 × test prods (1 red, 1 black) -2 × sprung hook probes (1 red, 1 black) b.Batteries # As per requirement c.Fuses # As per requirement d. Operator's Manual	1	NO

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	<p>e.Carrying Case</p> <p>II. OTHER FEATURES:</p> <p>a. Robust centre - pole meter movement and a mirror arc to enable accurate readings to be taken, avoiding parallax errors.</p> <p>b. Self latching meter movement reversal switch for making negative polarity measurements.</p> <p>c. Fuse protection on all functions and ranges for increased instrument and user protection.</p> <p>d. User resettable overload cutout switch to protect the instrument in the event of operator error.</p> <p>IV. TECHNICAL SPECIFICATIONS</p> <p>Ranges</p> <p>Voltage d.c.:100 mV (select 50 μA d.c. range) /3/10/30/100/300/600/1000V</p> <p>Voltage a.c.: 3/10/30/100/300/600/1000V</p> <p>Current d.c.:50/300 μA/1/10/100mA/1/10A</p> <p>Current a.c.:10/100mA/1/10A</p> <p>Resistance:0 to 2 kohm / 0 to 200 kohm/ 0 to 20 Mohm</p> <p>Decibels:-10 to +55 dB using a.c. voltage scale</p> <p>Insulation Resistance:Up to 200 Mohm using ohms scale and external 150 V d.c. supply</p> <p>Accuracy (at 20°C)</p> <p>Voltage and Current Ranges d.c.: \pm 1% of full # scale deflection</p> <p>Voltage and Current Ranges a.c.: \pm 2% of full # scale deflection at 50 Hz</p> <p>Resistance Ranges:\pm 5% of reading at centre scale</p> <p>Sensitivity Voltage Ranges d.c.:20000 ohm / V all ranges</p> <p>Voltage Ranges a.c. 100 ohm / V:3 V range 1000 ohm / V:10 v range 2000 ohm / V:30 V range and upwards</p> <p>Voltage Drop at Terminals Current Ranges d.c.:100 mV at 50 μA, 350 mV at 300 μA, 390 mV at 1 mA, 400mV at 10 mA,410 mV at 100 mA, 490 mV at 1 A, 710 mV at 10 A</p> <p>Current Ranges a.c.:480 mV at 10 mA, 110 mV at 100 mA, 240 mV at 1 A, 390 mV at 10 A</p> <p>Frequency Response For 10V<V<300V:</p>		

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	<p>Additional frequency error $<\pm 3\%$ for 15Hz $<f < 15\text{kHz}$</p> <p>Response Time: Typically 1 second to full scale Magnetic Field Effect</p> <p>Variation due to external fields is within the limits of BS 89 (1977) and IEC 51 (1973)</p> <p>Temperature Range Operation: -5 to $+50^{\circ}\text{C}$ Storage: -40 to $+50^{\circ}\text{C}$</p> <p>Temperature Effect: Variation due to temperature change, not greater than 0.15% per $^{\circ}\text{C}$</p> <p>Flash Test: 7 kV a.c. rms</p> <p>Overload Protection: High - speed electromechanical cutout with a fuse on the two lower resistance ranges and one in series with the COMMON terminal</p>		
<p>110 OC000295</p>	<p>EARTH GROUND CLAMP METER</p> <p>SPECIFICATIONS OF EARTH GROUND CLAMP METER</p> <p>The Earth Ground Clamp Meter shall be portable handheld meeting the following specifications at the minimum.</p> <ol style="list-style-type: none"> 1. It should facilitate <ol style="list-style-type: none"> (i) "Stakeless" ground loop testing without any disconnection or additional earth stakes and (ii) Non-intrusive leakage current measurement. 2. Resistance Range: 0.025 to 1500 Ohm. 3. Resistance Resolution: 0.002 Ohm. 4. Leakage Current Range (mA): 0.2 to 1000 mA. 5. Leakage Current Resolution (mA): 0.01 mA. 6. Current Range (A): 0.2 to 30 A. 7. Current Resolution (A): 0.01 A 8. Conductor Size: Min 30 mm. 9. Display: 9999 digit LCD with special symbols. 10. Maximum Non-destructive Current: Not less than 100A continuous. 11. Category Rating: Minimum CAT III 300 Vrms. 12. Range Selection: Automatic. 	1	NO

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	<p>13. Language: English at the Minimum.</p> <p>14. Save/ recall capability.</p> <p>15. IP rating: Minimum 23.</p> <p>16. Data Logging Capacity: Minimum 50 with interval slectable from 1 to 100 sec.</p> <p>17. Weight: Not more than 1.0 kg.</p> <p>18. Warranty: Minimum 2 years for the main unit and minimum 3 months for the standard accessories.</p> <p>19. Temperature (working & storage): 0 degC to +40 degC.</p> <p>20. Humidity: Up to 75% RH</p> <p>21. EMC compliance: EN 61000-4-1(Emission) & EN 61000-4-3(Immunity).</p> <p>22. Power Requirement: Replaceable / rechargeable non-proprietary standard battery with consumption less than 50 mA.</p> <p>23. Standard accessories: All standard accessories like required Test Leads and Probes (if any), Battery, Adapter(if applicable) etc. shall be supplied along with the meter. All items should be mentioned in detail.</p> <p>24. Accessories: Bidder to quote ADDITIONALLY accessories/spares (like various test leads and probes, fuses, suitable carrying cases, battery, Desktop charger etc.) associated with the instrument in addition to the standard accessories to be supplied. These will not be considered for price comparison and purchase of the same will be at OIL#s discretion.</p>		

Standard Notes: 1. Supplier should stand guarantee for giving maintenance support and supply of spares for at least next five years from the date of supply.

2. Spares and additional accessories required for five years of trouble-free operation shall be quoted separately as optional items. The price of these items shall be individually mentioned and will not be considered for price comparisons and purchase of the same will be at OIL#s discretion.

3. Bidder shall attach a list, summing up all the deviations, if any, from indenter's data sheet. The vendor shall provide compliance statement for every point serially as mentioned in the specification. Reason for any deviation shall also be provided by the vendor wherever possible.

4. Bidder shall enclose catalogues / detail specification sheet, encompassing all the above points for the calibrator covered in the bid.

5. Technical manuals for operation and maintenance purpose should be supplied. Manuals to be

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supplied with the calibrator should have detailed programming, calibration and troubleshooting procedures.

6. Bidder shall indicate in their offer facilities for repairing and calibrating these meters in India, in case of any technical fault.

7. Calibration and test certificate from recognized authority (to be mentioned in the bid) to be provided along with the instrument.

Special Notes : 1. Bidders other than OEM must submit valid authorized dealership/authorization certificate from OEM along with their offer.

2. 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.

3. Bidder should quote transportation charges on actual separately if not included in basic price. Transportation charges have 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.

4. 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 person 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).

5. Any statutory variation (increase / decrease)in the rate of excise duty / sales tax/Customs Duty or any statutory levy after the closing date of tenders / revised priced bid, as the case may be, but within the contractual delivery /completion period will be to the account of OIL subject to documentary evidence. However, any increase in excise duty /sales tax / Customs Duty or any statutory levy after the expiry of the scheduled date of delivery shall be to the supplier's account.

6. Please confirm acceptance of NIT payment terms.

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

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Bid Closing On : 10.07.2014 at 13:00 hrs.(IST)
Bid Opening On : 10.07.2014 at 13:00 hrs.(IST)

Tender issued to following parties only:

Sln0	V_Code	Vendor Name	City/Country
1	200384	PHILIPS ELECTRONICS INDIA LIMITED	KOLKATA
2	200627	CALTRONIX	KOLKATA
3	200700	ELECTRONICS INSTRUMENTS &	JAIPUR
4	201089	SHAM ELECTRONICS	KOLKATA
5	201151	TOSHNIWAL ENTERPRISES	KOLKATA
6	201321	D.B. SHAH & BROTHERS	KOLKATA
7	202086	APLAB LIMITED	KOLKATA
8	202337	POWER & CONTROLS	KOLKATA
9	203264	TECHNO SCIENTIFIC CO.	KOLKATA
10	203647	AGILENT TECHNOLOGIES INDIA PVT LTD	NEW DELHI
11	203713	R. P. TRADERS	KOLKATA
12	204039	ELECTRONICS SOUND -N- ZOOM,	SIMALUGURI
13	204526	SIMPSON & CO. LTD.	KOLKATA
14	205128	TTL TECHNOLOGIES PVT. LTD.	KOLKATA
15	206956	ELMAX PROJECTS & SERVICES	KOLKATA
16	207597	FLUKE SOUTH EAST ASIA PTE LIMITED	NEW DELHI
17	209142	HOODS CORPORATION	KOLKATA