

OIL INDIA LIMITED

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Tender No. & Date : KID2820L17/07 25.10.2016

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 : 27.12.2016 at 14:00 hrs. (IST)
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Performance Guarantee : Applicable

OIL INDIA LIMITED invites Limited tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
10 OC000295	<p>Specification For Power Quality Analyzer:</p> <p>Scope: Supply of portable Three Phase Power Quality Analyzer with all accessories & software for use in Electrical Engineering Department of OIL with demo at Duliajan, Assam how to use the same. The instrument should be new, unused and free from any manufacturing defects and physical damage. The meter display, software and all the literatures of the meter should be in English language only. Quantity 1(one) number</p> <p>1) Applications : The instrument Power Quality Analyzer should be suitable for analysis, troubleshooting and preventive maintenance of electrical power system having following system specifications. a) 600 V AC, 3 phase, 3 wire, 50 Hz system, 6000 Amps. b) 430 V AC, 3 phase, 3 wire (also 4 wire), 50 Hz system, 4000 Amps. c) 230 V AC, 3 phase, 3 wire (also 4 wire), 50 Hz system, 100 Amps.</p> <p>2) Features of the Analyzer : a) Analyzer should capable of active and reactive power measurements, unbalance and harmonic power to calculate true system energy losses. b) Analyzer should capable of simultaneously measure AC output power and DC input power for power electronics systems using DC clamp. c) Analyzer should conform to IEC 61000-4-30 Class-A/Class B standard. d) Analyzer should have Li-ion rechargeable battery. Battery pack should have the capacity of 8 hours(approx) operating time per charge. e) Analyzer should capable of view graph and generate report with inbuilt software. f) Analyzer should have industry safety rating 600 V CAT IV or 1000 V CAT III including probes. g) The instrument should troubleshoot at real-time by analysing the trends even while background recording continues. h) Analyzer should be capable of calculating energy waste due to system unbalance and presence of harmonics. These parameters should display along with real & reactive power and neutral current. i) Analyzer should capable of measuring % unbalance current and voltage. j) Wiring configurations: Single phase with neutral, Split phase, Single phase system, two phase voltages without neutral, Three phase four wire system,</p>	1	NO

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	<p>Three phase three wire system Delta, Three phase system without neutral, Four wire three phase Delta system with centre tapped high leg, Open delta three wire system with 2 transformer windings.</p> <p>k) Analyser should have long Recording capability and should able to export to PC/laptop.</p> <p>l) Number of voltage inputs 4(four) or 5(five).</p> <p>m) Number of current inputs 4(four).</p> <p>3) Measurement range, Resolution, Accuracy :</p> <p>a) Vrms (ac+dc): 1 V to 1000 V, 0.01 V, ± 0.1 %</p> <p>b) Vpk : 1 Vpk to 1400 Vpk, 1 V, 5 %</p> <p>c) Voltage Crest Factor (CF): 1.0 to 2.8, 0.01, ± 5 %</p> <p>d) Amps (ac +dc): 0-6000 A, 0.1 A, ± 0.5 %</p> <p>e) Hz: 42.500 Hz to 57.500 Hz, 0.001 Hz, ± 0.01 Hz</p> <p>f) Watts (VA, var): 0- 6000 MW, 0.1 W to 1 MW, ± 1 % .</p> <p>g) Power factor : 0 to 1, 0.001, ± 0.1 %</p> <p>h) Harmonic order: DC, 1 to 50 Grouping Harmonic groups according to IEC 61000-4-7</p> <p>i) Inter harmonics : 1 to 50 Grouping: Harmonic and Interharmonic subgroups according to IEC 61000-4-7</p> <p>j) Unbalance Volts : 0.0 % to 20.0 %, 0.1 %, ± 0.1 %</p> <p>k) Unbalance Amps : 0.0 % to 20.0 %, 0.1 %, ± 0.1 %</p> <p>l) Flicker (Pst, 1min) : 0.00 to 20.00, 0.01, ± 5 %</p> <p>Note: Variation of 15% in range, resolution and accuracy is acceptable.</p> <p>4) Specification for Current Probe</p> <p>a) Type: Flexible</p> <p>b) Probe and cable material: Alcryn 2070NC, reinforced insulation or equivalent</p> <p>c) Probe cable length: 600 mm (Approx)</p> <p>d) Probe cable diameter: 12 mm (Approx)</p> <p>e) Probe cable bend radius: 35 mm (Approx)</p> <p>f) Output cable length: 2.5 meters (Approx)</p> <p>g) Degree of protection (Probe): IP41 or better</p> <p>h) Current range: 6000 A AC RMS ± 15%</p> <p>i) Load impedance: 50 M# ± 15%</p> <p>j) Internal Resistance per 100 mm probe length: 10.5# ± 10 %</p> <p>k) Temperature coefficient : ± 0.08 % max of reading per °C</p> <p>l) Working voltage: 1000 V AC (RMS or DC) ± 15%</p> <p>5) Other requirements</p> <p>a) Should be Rugged Design and shock proof . Drip and dust proof IP51 according to IEC60529 . Shock and vibration - Shock 30 g, vibration: 3 g sinusoid, random 0.03 g2/Hz according to MIL-PRF-28800F Class 2.</p> <p>b) Display : Size (approx) : 127 mm x 88 mm with LCD Resolution: 320 x 240 pixels. Contrast and brightness should be user-adjustable, temperature compensated</p> <p>c) Real-time clock: Time and date stamp for Trend mode, Transient display, System Monitor and event capture.</p> <p>d) Memory (approx): 8GB card/ USB drive (SDHC compliant, FAT32 formatted).</p> <p>e) Operating temperature(approx): 0 °C to +40 °C.</p>		

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	<p>f) Storage temperature(approx) : -20 °C to +60 °C g) Maximum operating altitude(approx) : Up to 2,000 m h) Electro-Magnetic-Compatibility (EMC): Should conforms to EN 61326 (2005-12) for emission and immunity i) Interfaces: USB for PC connectivity, SD card slot.</p> <p>6) Accessories a) Suitable power adapter for charging (suitable for 230 V AC, 50 Hz power supply) # one set b) Test lead and Alligator clip set in full as required. c) Flexible current probes as per specification one set. d) Carrying case for the meter and other accessories as required. e) Memory card/ USB # 2 numbers f) Accessories for connection to the laptop as required. g) Detail instruction manual and measurement guide (hard copies) # one set h) Any other accessories that may require for full utilization of the instrument features-as required.</p> <p>Note: Above are the indicative list of accessories only. Instrument should be supplied with all accessories as per the design of the meter and application requirement as mentioned above.</p> <p>7) Software: Instrument should be supplied with original software installed that require for operation of the same. Also, other software should be supplied with valid lifetime licence that may require for PC/laptop interconnection, data storage and analysis. Software license should be issued to end user Oil India Limited, India if applicable. Software should be suitable for running in windows operating system - "Windows 7/8/10. A copy of all the software should be provided in CD or flash drive for reinstallation if required in future.</p> <p>8) Certificate: The following certificate must be enclosed along with bid. These are essential requirement for evaluation of the bid. a) Valid Calibration certificate from NABL accredited lab / lab registered with ILAC. b) Valid 600 V CAT IV or 1000 V CAT III certification from UL (Underwriters Laboratories) or CSA (Canadian Standards Association) or similar reputed independent agencies who is registered with ILAC.</p> <p>9) Warranty & Guaranty : The main instrument along with accessories and software should be guaranteed against any manufacturing defect, workmanship, performances etc. for a period of 18 months from the date of dispatch or 12 months from the date of receipt whichever is earlier. In the event any item (main instrument or accessories/software) is found defective within this period, then it should be replaced by the supplier free of cost without any burden on Oil India Limited. Bidders must confirm the same in their bid.</p> <p>10) Delivery and Demo : The instrument along with all accessories should be delivered at Materials Department, Oil India Ltd, Duliajan, Assam. The packing should be good enough to avoid any damage during transportation.</p>		

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	<p>The supplier has to arrange for an onsite demo about operation of the instrument at Duliajan, Assam to the user department people within 30 days of the receipt of the instrument.</p> <p>11) Make : Fluke/ Megger/Chauvin Arnoux/ Hellermannntyton/ Yokogawa or any other having good track record.</p> <p>12) Model : Fluke 435-II or equivalent</p> <p>Note: All the standards mentioned here automatically refer to the latest iterations/ edition thereof.****</p>		

Special Notes : 1. Guarantee / Warranty certificate for one year will be required along with the supply.

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

3. PERFORMANCE GUARANTEE:

Performance Guarantee is applicable against this tender. 10% of the ordered value shall be given as performance guarantee in the form of bank guarantee and shall be valid for 90 days beyond applicable warranty / guarantee / defect liability period (if any). Bidders should undertake in their bid to submit Performance Security as stated above.

NOTE:

1) Detailed technical catalogue to be submitted along with the bid mentioning the MAKE & MODEL OFFERED for our technical scrutiny. Offer received without detailed technical catalogue/ literature will be liable for rejection.

2) The items/equipments should be delivered at Materials Department, Oil India Ltd., Duliajan, Assam, India.

3) Items must be procured from Original Equipment Manufacturer (OEM) or from their authorized dealers only. In case OEM, the bidder should have established office in India in respect of supply and after Sales Service support from India.

4) In case bidder is not OEM of the offered product, a valid dealership certificate from OEM should be enclosed along with the offer. Offer without valid dealership certificate will not be considered for evaluation.

5) Item must be supplied with all required standard accessories, software and manuals.

6) Packing should be adequate to avoid any transit damage.

7) Item and all the accessories must be new un-used and free from any damage.

8) Calibration and Test certificates from NABL accreditation lab or lab having registered with ILAC for the instrument should be provided along with the supply.

9) CAT III 1000V or CAT IV 600V as per IEC 61010-1 safety rating certificate from independent

agencies like UL (Underwriters Laboratories) or CSA(Canadian Standards Association) or lab/testing agencies registered with ILAC for the instrument (including probes) should be provided with the Technical BID.

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Tender issued to following parties only:

S/no	V _Code	Vendor Name	City/Country
1	200030	JOSTS ENGINEERING COMPANY LIMITED	KOLKATA
2	200310	ASSAM ELECTRICALS	TINSUKIA
3	200326	MOTWANE PRIVATE LIMITED	KOLKATA
4	200627	CALTRONIX	KOLKATA
5	200700	ELECTRONICS INSTRUMENTS &	JAIPUR
6	200832	INDUSTRIAL EQUIPMENTS	GUWAHATI
7	201151	TOSHNIWAL ENTERPRISES	KOLKATA
8	201318	BRITISH ELECTRIC MFG. CO.	KOLKATA
9	202081	J. MITRA & CO. PVT. LTD.	NEW DELHI
10	202086	APLAB LIMITED	KOLKATA
11	202337	POWER & CONTROLS	KOLKATA
12	202429	UNIQUE ELECTRICALS	HOWRAH
13	202895	INDUSTRIAL TRADING CORPN ,	KOLKATA
14	203021	SPM INSTRUMENT INDIA PVT. LTD.	KOLKATA
15	203043	R S COMPONENTS & CONTROLS (I)LTD	NOIDA
16	203136	YOKOGAWA INDIA LTD	KOLKATA
17	203576	ARUN ENTERPRISES,	KOLKATA
18	203577	ARADHANA AGENCY	GUWAHATI
19	204132	AIMIL LIMITED	KOLKATA
20	204139	POWERGRIPP UNIVERSAL	SIBSAGAR
21	204391	ARIHANT	KOLKATA
22	204885	AUTOMATIC ELECTRICALS LTD	BANGALORE
23	205033	INTERNATIONAL TOOLS SYNDICATE	MUMBAI
24	205083	APLAB LIMITED	THANE
25	205306	EMCON INSTRUMENTS PVT. LTD.	CHENNAI
26	206077	Tinsley Group Ltd.	Delhi
27	206853	SKYKING AGENCIES	MUMBAI
28	207354	M.B. CONTROL & SYSTEMS PVT. LTD	KOLKATA
29	208039	R P TRADERS	SIMALUGURI
30	208172	SMART SYSTEMS	DIBRUGARH
31	211225	KHUSHBOO SCIENTIFIC PVT. LTD.	MUMBAI
32	211226	QS METROLOGY PVT. LTD.	New Delhi