

**OIL INDIA LIMITED**

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**ANNEXURE-I****Tender No. : KID5393L15/01****Tender Date : 14.11.2014**

Item No./ Mat. Code	Material Description	Quantity	UOM
<b>10</b> OC000661	<p><b>WELDING MACHINE</b></p> <p><b>1.0 GENERATOR:</b></p> <p>Direct current electric welding generator brushless type designed for constant current with associated reactors, regulators, control and indicating devices required to produce Direct current, suitable for arc welding. The generator should comply with the current requirements of IS:2635 having following specifications --</p> <p>1.1 Welding current range 50 amp to 400 amp.          1.2 Maximum continuous hand welding current 400 amperes at 60% duty cycle.          1.3 Maximum intermittent hand welding current 310 amperes at 100% duty cycle.          1.4 Open circuit voltage: 40/90 volts (min/max).          1.5 Class of insulation: Class F.          1.6 Suitable for electrodes of size: 2mm to 6.3 mm.          1.7 Welding Characteristic: Constant Current.          1.8 Mechanical protection Type IP 23.          1.9 Generator Control: The welding current should be adjustable smoothly and steplessly, open circuit voltage should be adjustable by means of a shunt field rheostat, which also enables the welding current to be set at the desired value. Three output terminals are to be provided, out of which one is common and between these terminals the full range of welding current should be obtained.          1.10 Auxiliary Power Source (Built-in):          Generator should have auxiliary power source (Built in) with the following ratings:</p> <p>Ratings(KW/KVA):    10KVA        3KVA          Voltage(Volts):    415V AC        240V AC          Phase(No):        3 phase        1 phase          Fuse rating(Amp):    15 Amps.        15 Amps.</p> <p>Note: Weather proof industrial output socket 1 each for 3 phase (415V) and 1 phase (230V) should be provided.</p> <p><b>2.0 PRIME MOVER:</b></p> <p>Water cooled, vertical, inline, four stroke cycle diesel oil engine capable of developing sufficient power to drive to the generator at the maximum hand welding current and corresponding load voltage as laid down in IS:2635. The engine should conform to specification IS: 10002/81 and rated for continuous running. While quoting the bidder should quote full details of the engine and accessories.</p> <p><b>2.1 The engine should be comprised of:</b></p>	1	NO

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	<p>a) 12 volts electric starting equipment fitted to the engine and comprising of starter, charging alternator, starter ring gear fitted to the flywheel, instrument panel, wiring, mounting brackets, cables and battery (dry and charged).</p> <p>b) Lubricating oil pressure gauge.</p> <p>c) Fuel tank 70lts capacity.</p> <p>d) Exhaust silencer and spark arrestor.</p> <p>e) Coolant temperature gauge.</p> <p>f) Battery charge ammeter and warning lamp</p> <p>g) Hour-meter.</p> <p>h) Fuel level indicator.</p> <p>i) Auto shut off for low lub.oil pressure and high coolant temperature.</p> <p>j) Push button start.</p> <p>k) On/Off switch.</p> <p>2.2 Quick and easy maintenance of engine: with single-side access to oil level check, oil-fill, oil filter, fuel filter, air cleaner and access for oil to be drained without getting under the engine to reduce the chance of oil spillage.</p> <p>3.0 ACOUSTIC CANOPY:</p> <p>It should be of pressed steel weather proof construction with side panes having clear access to the engine and generator and a panel opening to expose complete panel covering all controls for the engines and generators. The acoustic canopy should meet the latest CPCB norms. Insulating material shall be high quality noise absorbent and fire retardant complying IS:8183 specification for better sound attenuation. The enclosure shall be powder coated. It should be Internally reinforced by 16 gauge pre-galvanized perforated sheet having round perforations and diagonally centered.</p> <p>4.0 NOISE AND EMISSION LIMITS:</p> <p>4.1 The bidder must provide valid Certificates of approval and also valid certificates of Conformity of Production for the product offered (manufactured after 1st January, 2005) with the latest noise limit specified under Environment(Protection) Act, 1986 from authorized agencies of certification(authorized by Central Pollution Control Board) for acoustic enclosure (The maximum permissible sound pressure level for the engine driven welding generator shall be 75 dB(A) at 1 metre from the enclosure surface).</p> <p>4.2 The emission limits of the engine should conform the current rules of Environment (Protection) Act, 1986 i.e. Environment (Protection) (Third Amendment) Rules, 2013 (Environment (Protection) Act, 1986).</p> <p>5.0 LIFTING HOOK:</p> <p>There should be provision for lifting hook so that entire unit can be easily lifted with one hook of a crane and is properly balanced when it is raised.</p> <p>6.0 UNDERCARRIAGE:</p> <p>Engine coupled to the generator should be mounted directly on the</p>		

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	<p>undercarriage constructed of sturdy steel, complete with tow bar and should be fitted pneumatic wheel (Tyre size 600x16) and parking breaks. All wheels should be independently sprung and the spring should be of heavy duty type and mounted directly on the frame of the under carriage. The under carriage should be strong enough for being towed on cross country roads at maximum speed of 45 K.M./Hours.</p> <p>7.0 SERVICE CONDITION:</p> <p>The welding machine should be suitable for operation under the following service condition:</p> <p>7.1 Maximum ambient temperature: 42 °C.  7.2 Minimum ambient temperature: 7 °C.  7.3 Relative humidity: 100% (max) &amp; 70% (min).</p> <p>8.0 ACCESSORIES:</p> <p>The welding set should consist of the following accessories:</p> <p>8.1 A remote hand controller with 20 meters length of proper rated cable should be provided with the welding generator for remote adjustment of current.  8.2 A proper rated electrode holder and work clamp with cables of 30 meters length each.</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. Diesel Engine Driven Mobile Welding (mono block design) Generator with acoustic canopy having brushless type generator with auxiliary power and other accessories mounted on heavy duty spring loaded axel and pneumatic wheels with parking brakes and towing hook. It should conform to latest Central Pollution Control Board(CPCB) norms for noise and exhaust emission level. The engine should also conform to IS:10002/81 and IS:2635 for welding generator with valid certificates from competent authority. Other specification details are in item description under item texts.

#### CERTIFICATE OF SALE

Certificate of sale in respect of the supplied welding set have to be provided which are required for registration of the welding set under M.V. Act.

#### QUOTATION

Quotation in English should be supported by technical details and illustrated brochures of DC Generator, engine and undercarriage and drawings wherever required should be submitted. Without these details, quotations will be rejected.

**Tender No.** : KID5393L15/01  
**Tender Date** : 14.11.2014  
**Bid Closing On** : 19.12.2014 at 14:00 hrs.(IST)  
**Bid Opening On** : 19.12.2014 at 14:00 hrs.(IST)

**Tender issued to following parties only:**

Slno	V_Code	Vendor Name	City/Country
1	200129	RAJESH HARDWARE STORES	TINSUKIA
2	200392	RAVI BROTHERS	GUWAHATI
3	200832	INDUSTRIAL EQUIPMENTS	GUWAHATI
4	200838	INDUSTRIAL TRADE & AGENCIES	GUWAHATI
5	201460	ADOR WELDING LIMITED	KOLKATA
6	201555	JAINSON & JAINSONS	GUWAHATI
7	201598	TRADE & AGENCIES	GUWAHATI
8	201681	LARSEN & TOUBRO LIMITED.	GUWAHATI
9	201822	RAVI & SONS	KOLKATA
10	202681	KIRLOSKAR BROTHERS LIMITED	KOLKATA
11	202694	INTERNATIONAL TOOLS & HARDWARE	GUWAHATI
12	203117	TIRUPATI INDUSTRIAL STORES	TINSUKIA
13	205479	UNIVERSAL AGENCIES	GUWAHATI
14	205488	NATIONAL HARDWARE & TOOLS CENTRE	GUWAHATI
15	205565	ARUN MACHINERY STORES	GUWAHATI
16	209978	MIRAJ ELECTRICALS & MECHANICAL CO.	MUMBAI