

**OIL INDIA LIMITED**

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**ANNEXURE-I**

**Tender No. : KID1245P07/04**  
**Tender Date : 22.05.2006**

Item No./ Mat. Code	Material Description	Quantity	UOM
<b>10</b> 0C000661	<p><b>WELDING MACHINE</b>            -----</p> <p>Diesel Engine Driven Mobile Welding Set (mono block design) having brushless generator with auxiliary power and other accessories mounted on heavy duty spring loaded axel and pneumatic wheels with parking brakes and towing hook. Other specifications detailed below:</p> <p><b>1.0 GENERATOR</b>            -----</p> <p>Direct current electric welding generator with associated reactors, regulators, control and indicating devices required to produce D.C.suitable for arc welding.            The generator must comply with the requirements of IS:2635 1975 having following specifications --</p> <p>1.1 Welding current range 60 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 : 45 - 100 volts ( min/max)            1.5 Class of insulation : Class F            1.6 Suitable for electrodes of size : 2mm to 6.3 mm</p> <p><b>1.7 GENERATOR CONTROL</b>            -----</p> <p>The welding current should be adjustable smoothly and steplessly, open circuit voltage should be adjustable by means of a shut 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.</p> <p><b>1.8 AUXILIARY POWER SOURCE( BUILT IN)</b>            -----</p> <p>Generator should have auxiliary power source (Built in) with the following rating</p> <p>Rating : KW/KVA    10KVA    3KVA            Voltage : Volts    415 AC    240VAC            Phase : No        3        1            Fuse rating: Amp    15        15</p> <p><b>1.9 SERVICE CONDITION</b>            -----</p> <p>The welding machine should be suitable for operation under the following service condition -</p> <p>a) Maximum ambient tempr. : 42 Deg- C            b) Minimum ambient tempr. : 7 Deg-C</p>	4	NO

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	<p>c) Relative humidity : 100% (max) &amp; 70% (min)</p> <p>2.0 PRIME MOVER : ----- 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 Appendix - A of IS :2635-1975. The engine should generally conform to specification IS : 10002 /81 and rated for continuous running. While quoting the bidder must quote full details of the engine and accessories.</p> <p>2.1 The engine should be comprises of</p> <p>a) 12 volts electric starting equipment fitted to the engine and comprising of starter, changing alternator, starter ring gear fitted to the flywheel, instrument panel, wiring, mounting brackets, cables and battery (dry and charged). b) Lubricating oil pressure guage c) Fuel tank 40 lts. Capacity d) Exhaust silencer and spark arrestor</p> <p>3.0 CANOPY ----- 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.</p> <p>4.0 LIFTING HOOK ----- There must be provision for lifting hook so that entire unit can be easily lifted with one hook of a crane and is properly balanced when raised.</p> <p>5.0 UNDERCARRIAGE ----- Engine coupled to the generator must be mounted directly on the undercarriage constructed of sturdy steel, complete with tow bar and pneumatic wheel (size 600 # 16) and parking brakes. 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>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.</p>		

**Special Notes** : 1. Offers must be supported by technical details and illustrated brochures of DC Generator,

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engine and under carriage and Engineering drawing failing which offer may be liable for rejection.

2. In the event of placement of order, the successful bidder will be required to provide parts list and instruction manual for installation operation and maintenance of welding Generator set, engine and under carriage along with the supply. Bidders are requested to confirm the same in their offer.

3. Materials must be guaranteed for fabrication, workmanship and performance for a period of 18 months from the date of despatch or 12 months from the date of commissioning whichever is earlier and relevant guarantee certificates have to be provided along with the bill / despatch documents.