

Sr. No.	Description	Qty.
1.	<p><b>Diesel Generator Set</b>                      Prime Power= 500 KVA/400 KW at 0.8 p.f.                      Voltage= 415 /240 volt (± 5 % adjustable)                      Frequency= 50 HZ at 1500 RPM                      3-Phase, Gen. Connection= Star (3 Phase, 4 wire)                      Insulation Class=H, Duty= Continuous                      Ambient temperature= 40-50 °C, Open type                      Overload Capacity: 10 % for one hour within 06 hours.                      Type of Mounting= Skid mounting, Degree of protection= IP23                      Anti-Vibrant mountings between engine/Alternator and base  <b>Engine:</b> manufacturer's;                      i. Perkins, UK                      ii. Caterpillar, USA                      iii. Cummins, USA                      iv. Volvo Penta, Sweden                      v. Man, Germany                      vi. IVECO, Italy                      vii. Any other engine of American, UK, EU origin only.  <b>Alternator:</b> Brushless, Self-regulated &amp; Self Excited Efficiency≥ 96% at rated load and 0.8 p.f.                      Overload Capacity= 10% for 1 hour within 6 hours.                      Manufacturer's;                      i. Stamford, UK                      ii. Caterpillar, USA                      iii. Siemens, Germany                      iv. Mecc Alte, Italy                      v. Any other alternator of American, UK, EU origin only.  <b>Control Cabinet (Auto/ Manual)</b>                      Mounted on D.G Set with shock absorbers comprising of following facilities/ equipment;                      i. Circuit breaker 1000 amperes, 3-phase, 3 pole, I<sub>cu</sub>= 70 KA                      ii. Under and over voltage monitoring relay                      iii. Voltmeter                      iv. Voltage selector switch with five positions OFF, L1-N, L1-L2, L2-L3, L3-L1.                      v. Ampere Meter                      vi. Ampere meter selector switch with four positions OFF, L1, L2, L3                      vii. Frequency meter                      viii. Hour counter                      ix. Thermal protection trip and its indication relating to overheating of engine &amp; alternator  <b>Set of Indication Lamps</b>                      i. Generator C.B. ON                      ii. Generator Tripped/OFF                      iii. Over Crank                      iv. Low oil pressure (With protection)                      v. High oil pressure (with protection)                      vi. Lube oil pressure gauge                      vii. Coolant water temperature gauge                      viii. Battery charging Ampere meter                      ix. Hour Meter                      x. Low Oil Pressure Sensor                      xi. High water temperature sensor                      xii. Frequency counter /meter  <b>Standard Accessories:</b>                      i. Exhaust silencer with flexible connection                      ii. Lead Acid batteries with connecting leads                      iii. Tool kit for Routine Maintenance                      iv. 3-stage (pulsating) battery charger with utility supply (230 Vac) to charge 02 batteries of 12 Vdc each connected in series, Charging current: 20 A</p>	01 set

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**Specification Sheet**

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2.	<b><u>Scheduled Maintenance Parts</u></b> i. Oil filter element ii. By pass filter element iii. Fuel filter element iv. Air filter element v. Set of flexible hose pipes vi. Set of V-belts	04 Sets each
3.	<b><u>Literature</u></b> i. Operation and maintenance manual, spare parts catalogue in English language ii. Electrical Schematic connection drawings of DG set including alternator and Engine set	02 sets each