



CRITERIA	REQUIREMENT	SPECEFICATION	
General	The generation sets shall be robust in construction, factory tested, and assembled to ensure perfect alignment of Engine and Alternator on a common base frame. The set shall be mounted on anti-vibration mounting to prevent transfer of vibration to the foundation and structures. The equipment shall be operable in the temperature range of -5°C to 50°C. Weight of the Generator shall <b>not be more than 2700Kg, having Output Capacity not less than 125KVA/100 kW, output Voltage 415V(3-phase), 50Hz, Current not less than 174 A, PF not less than 0.8, governing of standard certified class A2, ISO Certified</b>	Make:  Model:  Country of Origin:  Year of Manufacture:	
2	Engine	<b>Four/Six Cylinders, Turbo Charger, Water cooled Diesel Engine, power not less than 156 BHP</b> at governed 1500 RPM (engine fully equipped with accessories), Electrical starting system with battery charging arrangement/ Exhaust Silencer/efficient radiator.	Make:  Model:
3	Emission standard	The Emission Standard of the generator should be of <b>latest Nepal Emission Standard.</b>	
4	Gauges	It should include water temperature, oil temperature, oil pressure and fuel level Gauges as necessary for Efficient operation and maintenance.	
5	Alternator	High Alternator Efficiency, Self-regulate, Brushless continuous duty protection having insulation 'Class H' <b>with Voltage regulation <math>\pm 1\%</math></b>	
6	Control Panels	Standard Control Panel, MCCB, User friendly and manufactured in-house. Adequate space for connection of incoming & outgoing Cables.	
7	Winding Materials	<b>Copper &amp; IS 5514</b>	
8	Acoustic Enclosure	The acoustic enclosure should be supplied along DG set from the manufacturer. The weather proof enclosure with <b>corrosion resistant or as per standard.</b>	
9	Insulation	High Density fire retardant/non-igniting and noise Reduction type <b>Acoustic Foam or Resin Bounded wool</b> covered with Fiber cloth / tissue and Perforated sheet properly clamped to absorb noise or as per standard.	
10	Ventilation System	As per manufacturer's standard.	
11	Vibration Insulation	Anti-Vibration Mounting foot Dunlop for Vibration Insulation or as per standard.	
12	Sound level	Average sound level should not be <b>more than 75b(A).</b>	

  
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13	Battery	Battery should be inbuilt inside.	
14	Fuel Tank Capacity	Inbuilt, The Fuel tank capacity should be not less than 200 liters	
15	Canopy	Ventilation with Standard Paint Shade	
16	Fuel Consumption	<b>It should have lower fuel consumptions</b> , Maximum 17(75% load), 23(100% load) Ltrs/hr	
17	Dimension	The LxBxH of the generator should be less than 3600x1400x1900 mm	
18	Instructions	All signs and instructions in the Generator shall be in English.	
19	Features	<ol style="list-style-type: none"> <li>1. Emergency Stop &amp; internal Lights.</li> <li>2. Extended lube oil change period up to RH 500</li> <li>3. It should be tested at full load before dispatch from manufacturer.</li> <li>4. It should have convenient lifting arrangement.</li> <li>5. It should have externally accessible fuel filling and lube oil draining.</li> <li>6. It should have doors on both sides for easy to engine, alternator, control panel &amp; radiator.</li> <li>7. Service and Parts should be always available</li> </ol>	
20	Manuals	One copy of the Operator's & Owner's Instructions in English shall be supplied with Generator.	
21	Power Performance	The bidder shall provide the manufacturer's data of the performance of the unit to include the fuel consumption.	
22	Warranty	Manufacturer shall provide a <b>minimum one year warranty of as per manufacturer's standard whichever is greater</b> after acceptance. Replacement or repair of the part or whole of generator if needed should be addressed within limit of 7 working days.	
23	Delivery	A Unit of Generator shall be delivered as per Agreement to: Tiakapur Hospital, Tikapur	

**Note:**

The major items are indicated by bold and highlighted letters/alphabets/figures in the technical specifications. Non-compliance of these major items will result in non-responsiveness of the bid offer.

  
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