


## Section V. Technical Specifications

<b>Billing of Quantities (BOQ)</b> <b>Supplying, Installing, Testing And Commissioning 100 (2 Nos) and 200 KVA (1 Nos)</b> <b>Generator i/c Required Accessories &amp; RCC Pad</b>						
S#	Item	Description / Specifications	Qty.	Unit	Cost	Total
					Per Unit	
1	<b>Supply &amp; Installation of 100 (2Nos) 200 (1 Nos) KVA Generators</b>	<p>Supplying/installing/testing/commissioning/training/connecting with existing system of 50 HZ 3-phase 100 (2 Nos) and 200 (1 Nos) KVA generator (Perkins, Cummins, Denyo, Caterpillar or equivalent) with diesel engine (4stroke) starting system electrical, rated sped 1500 rpm Less than 20% upon full load and its recovery 97% steady state with 0.2, Skid Mounted Control Panel (ECM) with seconds sound proof canopy cables as per site requirement; automatic ATS panel, electrical panel for emergency shutdown, and connection of generators to main source of WAPDA/SEPCO to energize the system. This rate also includes construction of R.C.C pad accordingly as per requirement of employer for lying of generator in proper dimensions.</p> <div style="text-align: center;">  </div> <p><b>Detailed Specifications mentioned below</b>  <b>Specification</b>                      Alternator providing 100/200 KVA /88 KW standbys with 0.88 power factor, 3 phase, and 50 hertz, 400/230 volts with control panel &amp; tool kit.</p> <ol style="list-style-type: none"> <li>1. Electric start system with local acid battery.</li> <li>2. battery charging Alternator</li> <li>3. Dry Air Filter</li> <li>4. Heavy Duty Exhaust Silencer</li> <li>5. Circuit Breaker.</li> <li>6. Welded Steel base frame.</li> <li>7. Unique Engine interface module (EIM) providers individual protection of the Control Panel Circuits</li> <li>8. 50C Tropicalized Radiator</li> <li>9. Canopy installed.</li> <li>10. 1 year warranty</li> </ol> <p><b>Control Panel should Equipped with following Standard items.</b></p> <p><b>A,</b> Instruments Voltmeter, Ammeter, Circuit brakes as per requirements and Tachometer, hours Run Meter, coolant temperature gauge and oil pressure gauge, battery condition voltmeter.</p> <p><b>B,</b> Controls: off / run /crank key switch, emergency stop push button, voltmeter phase selector switch.</p>	03	Nos		

	<p>C, Shutdown: protection Devices with indicators for High coolant temperature and low oil pressure</p> <p><b>Warranty Terms:</b> Offered machinery is included with manufacturer standard warranty of 01 Year or 2000 Hours (whichever comes first). During warranty period supplier is responsible for the smooth operation of Diesel Generator Set at site. During the standard warranty supplier will provide the damaged parts and its services (including consumables spares like, filters, Oil &amp; battery). First service of DG Set would be required within 60 hours OR 03 months &amp; than 150 hours OR 03 month. During warranty period the misuse, overloading and involvement of third party for service &amp; maintenance will be liable to void the above warranty terms.</p> <p><b>Installation &amp; Accessories.</b> Installation of the offered Generator including Switch, Earthling, Foundation, Cabling, and other materials must include in quoted rates. No extra payments to be paid separately.</p> <p><b>Devaluation</b> Devaluation in Prices is not applicable in quoted rates and other Government taxes are applicable as per Govt policy on or before the date of quotation.</p>				
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**NOTE:**

- *The above quantity could be reviewed as per requirement.*
- *Delivery should be made in the premises of University; no carriage will be paid separately.*
- *Quoted Amount should be inclusive of all applicable taxes.*
- *Bidder must quote all the items in BOQ.*