

COLLEGE OF ENGINEERING

(Managed by IHRD, Established by Government of Kerala)

Kalloppara, Kadamankulam P.O.

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COLLEGE OF ENGINEERING, KALLOPPARA

No. D/606/2018/CEK

07.02.19

E -Tender Notice

Tender No. 4/18-19

E- tenders are invited for the supply and installation of 62.5 KVA Diesel Generator set as per the specification given below for this college.

Cost of tender form is Rs. 1800/- + GST 18%. **Last date for the receipt of E-tender will be extended to 10.00 AM on 11/3/2019.** Incomplete and late tenders will not be accepted. Tenders will be **opened at 11.00 AM on 12/3/2019.** EMD is Rs.7000/- . Successful tenderer should supply and install Diesel Generator set within 2 weeks from the date of supply order. Tender validity - up to 31.03.19. Decision of the Principal will be final in all matters regarding purchase.

Specification

Sl. No.	Item with specification	Qty.
1	<p>62.5 KVA, Diesel Generating set with CPCB approved acoustic enclosure. Alternator rated at 62.5KVA at 415 volts, 3phase, mounted on channel iron Base Frame complete with Fuel Tank of suitable capacity with standard manual control panel and Batteries</p> <p>Engine:</p> <p>4 cylinder, In-line 4 stroke, radiator cooled engine.</p> <p>Air handling system with dry type, heavy duty, replaceable paper element air cleaner with restriction indicator, Air to air aftercooling.</p> <p>Electrical starter motor with soft start engagement feature.</p> <p>Battery charging alternator, 1 x 12 V DC battery.</p> <p>Alternator:</p> <p>Brushless type, Screen protected, Revolving field, Self excited alternator conforming to IS/IEC 60034-1 Three Phase reconnectable winding.</p> <p>Control Panel:</p> <p>Control panel preferably manufactured with 14/16 gauge CRCA sheet & powder coated. Aluminum bus bars with suitable capacity with incoming/ outgoing terminals. Indicating lamps for 'Load ON' and 'Set Running'.</p>	

(Handwritten signature)

<p>Instrument fuses duly wired and ferruled. Circuit breakers of suitable rating with overload and short circuit protections. AMF Functionality. Intuitive operator interface with graphic display.</p> <p>Indications - Generator set, Utility Status Lamp.</p> <p>Remote Start-Stop</p> <p>Engine Metering: Oil pressure, Engine temperature, Starting battery voltage, Engine running hours</p> <p>AC Alternator Metering: L-L Voltage and L-N Voltage, Current (phase and total), kVA (phase and total) and Frequency, kwh, Total & per phase (kw & kVA), PF, Utility Voltage and Freq.</p> <p>Engine Protection: Low lube oil pressure, High/Low coolant temperature, Battery Over/Under/Weak Volts, Fail to Crank/Start, Sensor failure, Cranking lockout, Low fuel level.</p> <p>AC Alternator Protection: Over/Under Voltage, Over/Under Frequency, Loss of AC Sensing, Overspeed, Over Current.</p> <p>Data Logging: Engine Hours, Control Hours and recent fault codes. Configurable glow plug control 12/24 Volt DC operation.</p> <p>Sleep mode</p> <p>Silencer:</p> <p>Should comply with noise emission standards laid down by MoEF / CPCB</p> <p>Mounting Arrangement:</p> <p>Engine and alternator mounted on a common MS fabricated base frame with AVM pads.</p> <p>Base frame with integral fuel tank provided with drain plug, air vent, inlet and outlet connection, level indicator and provision for cleaning</p> <p>Acoustic Enclosure:</p> <p>Should meet stringent MoEF/ CPCB norms of 75 dBA @ 1mtr at 75% load under free field conditions.</p> <p>High quality noise absorbent and fire-retardant grade acoustic insulation material (P.U. Foam) complying to IS 8183</p> <p>Ergonomic design for easy handling at customer site.</p> <p>Should have UV resistant powder coating of all parts to withstand extreme environment. Flush styling without projections. Fluid drains for lube oil and fuel</p> <p>Fuel filling arrangement inside the enclosure.</p> <p>Minimum Two years warranty.</p> <p>Only Cummins, Kirloskar or Catterpillar make is preferred.</p>	1
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Installation work:

Electrical cabling, foundation work for all electrical installations as per rules and guidelines of electrical inspectorate, exhaust pipe work, earthing etc. with the approval of electrical inspectorate.

Warranty: - Minimum 2 years


PRINCIPAL