15 KVA DG set specifications

confirm to following specification & requirements:-Engine The engine should be water-cooled, four stroke, self-start, multi cylinder and capable

The DG set for server room, 15 KVA, auto start silent type, CPCB approved shall

of developing suitable BHP at 1500 rpm for 15 KVA alternator. It should confirm to ISO 8528 and ISO 3046 /BS:5514 standards. The engine shall be provided with battery charging alternator, fuel filter, lube oil

filter, fuel tank, air cleaner, residential silencer, exhaust piping, electronic/mechanical governor, control panel & engine instruments panel, safety sensors and indicators, standard protections, 12 V battery (with leads) and all the standard accessories with first fill of lube oil and coolant.

Alternator The alternator should be synchronous, brushless single bearing self excited & regulated, suitable for continuous operation at 1500 rpm and capable of delivering 15 KVA at 415V, 0.8 p.f.(Lag), 50 Hz, 3 phase output confirming to IS: 4722/BS 5000 standard. The alternator should have IP-23 protection & class 'H' insulation and provided with standard protections.

AMF panel AMF panel (PLC based) should be fabricated from minimum 16 guage CRCA sheet,

wiring control & power contactors, timer, set of indicators showing load on DG/mains /fault & battery charger, ammeter voltmeter & their selector switches, frequency meter, all other standard accessories and also including control cable & bypass changeover switch of 63 Amp. 4 poles complete in all respect suitable for 15 KVA DG set to ensure automatic start/stop of the Genset in the case of AC mains failure &its restoration respectively. All the accessories should be of reputed makes.

powder coated finish with engine start & stop commands, control relays, internal

Acoustic Enclosure

Acoustic enclosure should be fabricated from 2 mm thick CRCA sheet, powder coated finish & filled with suitable insulation and should comply with IS 8183 & CPCB norms.

Fuel Tank

Fuel tank of minimum 100 ltr. Capacity fabricated from minimum 14G sheet should be having inlet/outlet connection, drain value, fuel level guage & required piping etc.

- Engine and alternator to be coupled on a common channel iron fabricated base frame with anti-vibration pads.
- Fabrication of suitable foundation of DG set
- Installation & commissioning complete in all respect, arranging testing and demonstration and to supply all accessories required for installation and commissioning include catalogues and operation & maintenance manual.
- Onsite warranty (incl. spares) for 3 years
- The installation & commissioning of DG set shall also include the work of earthing (GI plate – 4 nos.) as per ISI specifications, providing & laying GI earth strip (25* 3mm) between DG set & earthing, P&L 25 sq.mtr. 4 core PVC insulated Al. conductor armoured cable from DG set to server room (average
- length required shall be approx. 30 mtr. which may vary as per site conditions). Copies of relevant certificates of compliance to IS/ISO standards & CPCB norms should be enclosed.