

**TECHNICAL SPECIFICATION FOR 500 KVA DIESEL GENERATOR SET**

1. Engine make : Reputed make
2. Engine model : As per design
- 3.. BHP : As per design for the rated out put  
to be furnished
4. RPM : As per design to be furnished
- 5 Compression ratio of engine : as per designed to be furnished
6. Type of cooling : air cooled
7. Details of turbo charger : to be furnished
- 8 Type of governing and accuracy : as per design to be furnished
- 9 Lub oil requirement per fill and  
period of changing : As per design to be furnished
- 10..Fuel consumption at no load, 50%  
and 100% load : As per design to be furnished
- 11.Details of the protection offered  
for the engine : As per design to be furnished
- 12.Details of instruments provided in the  
ontrol panel of the engine : As per design to be furnished
- 13 Type of batteries,no. of plates and  
no. of batteries. : As per design to be furnished
14. Silencer for the exhaust over all size  
mounting vertical/horizontal : As per design to be furnished
15. Diesel tank capacity. : As per design to be furnished
- 16 Coupling between engine and alternator: As per design to be furnished
17. Exhaust piping size : As per design to be furnished
18. Type of insulation for the exhaust  
piping inside the DG set. As per design to be furnished
19. Space required around the engine : Sufficient space to be furnished  
to facilitate maintenance.
20. Type of towable covered trolley :  
with tyre wheels : As per design to be furnished
21. Capacity of the trolley provided and  
max speed that the trolley can be towed : As per design to be furnished

**(A) STANDARD ACCESSORIES:**

- 01 Air cleaner –panel type
- 02 Breather – Crankcase
- 03 Cooler- lubrication oil
- 04 fan blower & fan drive
- 05 Filters-fuel & oil
- 06 Fuel pressure gauge
- 07 Muffler
- 08 Protection devices a)over speed shutoff. b) low lubeoil shut off. c)high water temp shut off
- 09 Techometer & Tachometer drives
- 10 Radiator
- 11 Service meter
- 12 Starting electric 24V DC

**( B) 500KVA ALTERNATOR :**

Alternator make/model : Reputed make

Brushless, two bearing, self excited and self regulated rated 500KVA at , 0.8 P.F, 3 phase ,4wire 415V +\_ 10%50HZ class H insulation provided with automatic voltage regulator to hold the output volage constant and to provide fasst response to sudden load changes. Designed built and tested to comply with BS 2613 or IS 4722.

**(C) 500KVA CONTROL PANEL:**

MS sheet fabricated floor standing control panel dust and vermin proof. With aluminium bus bars terminal block, completely wired sockets, provision for cable entry from bottom, insulators etc., and following accessories.

- 01 Voltmeter
- 02 Voltmeter selector switch
- 03 Ammeter
- 04 Ammeter selector switch
- 05 Frequency meter
- 06 Indicating lamps on/off, set on, load on etc.,
- 07 Fuses and control wiring etc.,
- 08 KWH meter
- 09 Suitable CT for KWH meter with sealing arrangements
- 10 Earth leakage relay
- 11 MCCB

- 12 KW & PF meter
- 13 Auto change over facility.

### TRAILOR DETAILS

Type	: wheel mounted (4nos) tractor trailer type
Unladen wt. of the trailer	: Suitable as per design
Pay load	: As per suitable design
Gross wt:	: As per suitable design
Main bearer	: As per suitable design
Body dimension	: To be furnished
Front axle wt	: As per suitable design
Rear axle wt	: As per suitable design
Cross bearers	: Suitable as per design
Turn table	: Suitable as per design
Platform decking	: Suitable as per design
Doors	: Smaller door longitudinal side and full doors on front/rear
Draw bar	: Suitable
Leafsprings	: Suitable
Weather proof	: Bittumanon sheet will be pasted over the roof
Jack	: 4 nos mechanical as suitable
Max towing	: 30 km/hour
Painting	: 2 coats redoxide and 2 coats of enamel paints
RTO certificate	: To be furnished