

Scope of Work

SLA/Scope of work for Hiring of 250KVA DG set for CISF Barrack, ASR Airport Bhogapuram for 3 years

One DG set with capacity 250KVA, at 0.85PF, 415V, 3PhAC 4wire. 50Hz.

1. The DG set is must of following specifications:
 - (a) Make of DG set Kirloskar/Mahindra/Caterpillar/Crompton Greaves/ Cummins/ MTU/ Sahil/ MAN B&W.
 - (b) Multi cylinder, water cooled, 1500 RPM DG set.
 - (c) 250 KVA, at 0.85PF, 415V, 3Ph 4 wire 50Hz.
 - (d) DG must be in acoustic enclosure. Noise level to meet CPCB norms. Compliance with all statutory guidelines.
 - (e) Age of DG set at the time of hiring should not be more than 3 years. Required documents must be furnished.
 - (f) DG should start with in 5 mins of EB failure and provided power to the facility. (AMF should be fully functional and interlocked with the EB power)
 - (g) Necessary power / control wire connections to and from the EB panel to DG panel, change over switch also to be in the scope of service provider.
2. The DG set must be provided with the required earth pits for body and neutral, main switches, AMF, changeover while installing DG set. Any required cabling and wiring for AMF to be done by the vendor. The DG set must have internal battery and battery charger. The charger must be of capacity to manage at least three cranks. In case of battery failure, vendor must arrange other battery sets on his own cost.
3. The DG set shall be mounted on wheels or foundations as required or as per site arrangements.
4. The hiring charges are including, the cost of operation, routine and periodic maintenance including cost of consumable required, operator charge, fuel charges. All required records and service report to be maintained.
5. Supply of diesel consumption per unit generated through DG set may be checked on the basis of unit generated through DG set. The following records to be maintained:
 - (a) Hourly meter reading
 - (b) Time at which generator was started
 - (c) No. of units generated
 - (d) Consumption of diesel

6. The unit generated by DG set per unit generated will be paid as per actual reading consumption.
7. **(a)** In the event of a power failure, if the DG set fails to start and restore power within **15 minutes, half-day rental charges** shall be deducted. If the DG set remains under breakdown for **more than 2 hours, full-day rental charges** shall be deducted. Breakdown exceeding **8 hours** shall not be permissible under any circumstances. In case the DG set becomes unserviceable due to major failure or maintenance requirements, the service provider shall replace it with another DG set of the **same or higher capacity within 24 hours**.

(b) The DG set shall automatically start and restore power supply to the facility within **5 minutes** of EB power failure. The **Automatic Mains Failure (AMF) system** shall be fully functional and properly interlocked with the EB supply to ensure seamless changeover.

(c) The scope of work shall include the supply, installation, testing, and commissioning of all necessary **power cables, control wiring, interconnections between the EB panel and DG panel**, as well as the **changeover switch/AMF panel**, required for proper operation of the DG system.