

## Regulation DD-35.0: Diesel Generator

Temporary Diesel Generator installation with Diesel oil storage tank shall follow the EHS requirements.  
No such unit/s is permitted without prior approval from EHS-Trakhees- PCFC.

35.1 Use of Diesel Generator is not permitted at client facility/building. However, on case to case basis where DEWA power supply is not available a temporary approval for maximum 3 months can be considered. The client should submit their request with drawings showing the location, capacity, fuel tank details, electrical installation, cable routing, period of installation and use/purpose of generator as per following requirements.

35.2 Installation of the generator should be carried out by qualified engineer.

35.3 Generator set should be enclosed housing for suppression of noise & exposure of rotating / electrical parts.

35.4 Fuel Type - Only less than .005% sulphur content fuels are permitted.

35.5 Generators shall be placed (not in setback area 5.5 meter from the fence line) with a minimum clearance of 1.2 mts. all around and fixed on stable ground ensuring the same does not move /tilt during the operations.

35.6 There shall be accessed only by authorized personnel and relevant signs to be placed.

35.7 Proper exhaust vents should be provided to prevent accumulation of smoke/gases/CO at ground levels. Noise levels and personal protection shall be in compliance with Health & Safety Rules & Regulations.

35.8 Fuel/Diesel tank shall be placed in a secured/impervious area at a minimum distance of 1.2 meters from the generators. The Diesel Tank and or Diesel Storage Drums should be suitably banded/protected in case of spills, to avoid spills during storage/filling operations.

35.9 Prior to generator operations, check all safety/manufacturer precautions and for spills on/around the generator which could lead to ignition. Before refuelling the generators, turn it off and let it cool down. Gasoline spilled on hot engine parts could ignite.

35.10 Near by the generators/fuel tanks/drums, fuel-burning appliance not permitted to store or carry out any hot-work in the immediate surroundings.

- 35.11 Total electrical load should not exceed the generator manufacturer rating.
- 35.12 For electrical cable routing, all service lines & power cables etc. either to be put in the covered trenches or routed through elevated cable trays/pipe rack and shall not be laid down directly on the floor & all electrical installations shall be fitted with ELCB's and properly earth as per DEWA regulations.
- 35.13 Keep cords out of the way so they don't present a tripping/safety hazard. Provide necessary warning signs.
- 35.14 Proper Fire Protection arrangements in accordance with EHS: Fire Department should be provided.
- 35.15 Proper sign board should be displayed at the DG area i.e. Danger High Voltage, Authorized Personnel Entry Only, No Smoking, Use Ear Protection, etc.
- 35.16 The client should obtain EHS documentary approval on the type and location of generator and subsequently. On completion of safe installation and prior to full operations, invite EHS for inspection/approval of the same.