

Energy including electricity and fuels (source, competing users)/ Unit: fuel (MT), energy (MW)

Power for the proposed project will be supplied by Uttar Pradesh Power Corporation Ltd. Maximum power Demand for the proposed project is 6000 KW. DG sets of 7570 KVA will be used as power backup during power failure. HSD (low sulphur variety as per availability) fuel will be used for DG sets.

Power Requirement Details

The power supply shall be supplied by Uttar Pradesh Power Corporation Ltd. The connected load for the project will be approx.6000 KW.

Table: 6 Power Demand

Electrical - Demand Load :	6000 KW
Power Back Up - DG Sets:	7570 KVA
DG Stack Height	68.20 M

Backup Power Details

There is provision of DG set of 7570 KVA for power back up in proposed commercial/ multiplex project. The DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.

Energy Conservation Measures:

The energy conservation measures shall be adopted to minimize the demand on non-renewable resources and maximize the utilization efficiency of these resources. The benefits of Energy Conservation measures are as follows:

- Reduced Energy Consumption without sacrificing comfort levels.
- Reduced destruction of natural resources.
- Reduced air pollution.
- Reduced Pollution Loads.
- Increased user productivity.

Following Energy Conservation Measures will be adopted:

- a) Energy efficient LED Lamps
- b) All cables shall be derated to avoid heating during use. This also indirectly reduces losses and improves reliability.
- c) Power factor shall be maintained 0.9 or higher. This will reduce electrical power distribution losses in the installation.