

DESIGN BASIS REPORT- SAMPLE

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CONSULTANT NAME	DESIGN BASIS REPORT Discipline: ELECTRICAL	Project Name	

3.1 ELECTRICAL SYSTEM OVERVIEW

This report is intended to update the Client and the design team, about the concept design proposal for Electrical and ELV design being envisaged for this project. The design intent of the Electrical and ELV works provided for this development will be relevant to the project context in terms of local code compliance, build ability, operation and maintenance.

Electrical supply and distribution system is essential and vital means for operation of building during utility normal power supply, utility power failure and emergency operation period. System supply will be 22kV/11kV step-down to 415/230V supplied by Local Electricity Board.

The design objective of electrical supply and distribution system for this project are to:

- Provide reliable and adequate power supply to maintain the building operation at all time
- Ensure the design and installation is safe for operation and in compliance with the codes and practices of national building code of India
- To provide cost effective and early maintainable system

The Electrical systems proposed for the project are:

- LT power distribution system
- Internal electrification for Flats
- Common area electrification
- Standby power system (DG Sets)
- Earthing
- Lightning protection system

The ELV systems proposed for the project are:

- Telephone point provision
- TV point provision
- Public Address System

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