

PROJECT : ELITE HOUSING SECTOR 10 GREATER NOIDA

EXECUTIVE SUMMARY ON ENGINEERING SERVICES

Total apartments = 630

Total Population = 2835 Persons

1. Plumbing System :

The estimated water requirement for the project shall be as follows:

Total Water Requirement	=	513.0 KLD
Flushing and horticulture Requirement	=	202.0 KLD
Net Domestic Water Requirement	=	311.0 KLD

Capacity of central under ground water tanks :

Fire Tank = 570.0 K.L.

Domestic Water Tank = 310.0 K.L.

Source of water shall be municipal supply / Tanker . Water filtration plant has been proposed for the complex

400 KLD capacity Sewage Treatment Plant (STP) is proposed for the scheme which will treat 100% waste generated.

2. Electrical System:

The electrical load is estimated as **3430 KVA** (at 0.90 power factor). To cater to this electrical load, the incoming power is available at 11 kV. The Substations are planned with oil type transformers located outdoors.

The total Essential load for the project is estimated as **2278 KVA** (at 0.80 power factor). To cater above demand DG Sets are planned and located outdoors.

A total of 2 nos 1600 KVA, 1 no 800 KVA & 1 no 630 KVA transformers shall be provided to cater complete complex.

A total of 3 nos 750 KVA and 1 nos 500 KVA DG Sets shall be provided to cater complete complex.

3. Fire Protection System :

The project comes under the A4 category (Residential apartments) as per NBC of India, accordingly the project has been designed with 570 KL of Fire Tank, Sprinkler system, Hydrant System, hand held fire extinguishers.

Manual and automatic fire alarm system has been proposed as per the requirements of NBC.