

PROJECT SPECIFICATIONS

Road:-

There are roads of different width in this project. The main road is 12 m to 9 m. All roads inside the colony are 9 m.

The road construction materials are soil, aggregates (coarse and fine), bitumen, binders, and admixtures. The use of each material is exclusive to each layer. Soil as a naturally occurring or processed material finds its use as subgrade material. The coarse and fine aggregate mixture forms the sub-base, which is 300 mm thick. The aggregate of size 0–10 mm mixed with bitumen forms the base, which is coarse and 150 mm thick. Bitumen, such as cutback bitumen, emulsion, and asphalt, finds application in bitumen mix, tack coat, and prime coat.

Footpaths:-

Requirements for sidewalks pedestrian crossing and other facilities to accommodate non-motorized users. The footpath will be built through inter-locking tiles. Footpaths are often made of concrete, asphalt, paving stones, or other durable materials suitable for pedestrian use.

Water Line:-

The water line is connected to the water source, which will be a municipal water treatment plant, a well, or another water supply source. Pipelines, pumping stations, and control valves are installed to convey water from the reservoir to various parts of the site. The distribution network is designed to optimise flow rates, pressure levels, and water quality throughout the system. Under-ground drainage pipe will be laid in a trench system that is 300 mm wider than the pipe itself (410 mm for 110 mm pipe).

Drain :-

Establish primary drainage channels to collect and divert stormwater away from residential and commercial areas. These channels can be open ditches, underground pipes, or a combination of both. A 600 x 450 mm drainage size will be provided.

Electricity :-

L.T./L.V. line, 430 V Fidler pillar, Ip-43, Street lights, will be provided. A 600x600 mm manhole will be provided for the L.T., L.V., and H.T. lines. Street light design: 6.0 metre to 9.0 metre height. The distance between two street lights is 9 m to 10 m. Three to Four Substation to step down high-voltage electricity from the grid to lower voltages suitable for distribution to buildings and facilities within the township. Substations may also include transformers for voltage regulation.

Overhead or underground power lines distribute electricity from substations to individual buildings, streets, and public spaces throughout the township. Distribution lines are sized and configured based on projected electricity demand and load requirement.

Landscaping :-

Designated areas for parks, gardens, and recreational spaces are essential for community engagement and leisure activities. These areas may include lawns, trees, shrubs, flower beds, and seating arrangements.

STP :-

The STP treats wastewater from the site to remove contaminants and pollutants before discharge into the environment. Treatment processes may include screening, sedimentation, biological treatment (such as activated sludge or bio filtration), and disinfection to meet regulatory standards and protect public health and the environment. Capacity OF S.T.P. will be provide as per statutory regulations .

Sewer line:-

A 300 mm to 600 mm diameter R.C.C. sewer line will be provided. The manhole size will be 900 mm dia (main), and the colony area will be 500 mm dia of the manhole provided. A 300 mm to 600 mm diameter R.C.C. sewer line will be provided. The manhole size will be 900 mm dia (main), and the colony area will be 500 mm dia of the manhole provided