



pipes above 300mm dia, the drop can be avoided by giving steps/ramps in the successive manholes.

**5.3.5 Laying & Jointing of Pipe**

The Pipe shall be laid as stipulated in I.S: 783 – 1983. After setting out the pipes the collars shall be centered over the joint and filled in with tarred gaskin, so that sufficient space is left on either side of the collar to receive the mortar. The space shall then be filled with cement mortar 1:2 (1 cement: 2 fine sand) and caulked by means of proper tools. All joints shall be finished at an angle of 45 degree to the longitudinal axis of the pipe on both sides of the collars neatly.

**5.3.6 Pipe Bedding**

All pipes laid in underground trenches shall be provided with proper bedding. The bedding shall be decided on site conditions such as type of soil and its extent of water contents, super imposed load etc.

**5.3.7 Sewage Treatment Plant**

It is proposed that the treatment plant will be constructed using 'FAB' Fluidized aerobic Bed as this technology is efficient in treatment and easy in installing. Salient features of the Sewage Treatment Plant are as proceed subsequently.

Total capacity of Treatment plants required	2.15 MLD
Effluent available for recycling (80% of total collected)	1.72 MLD (approx)

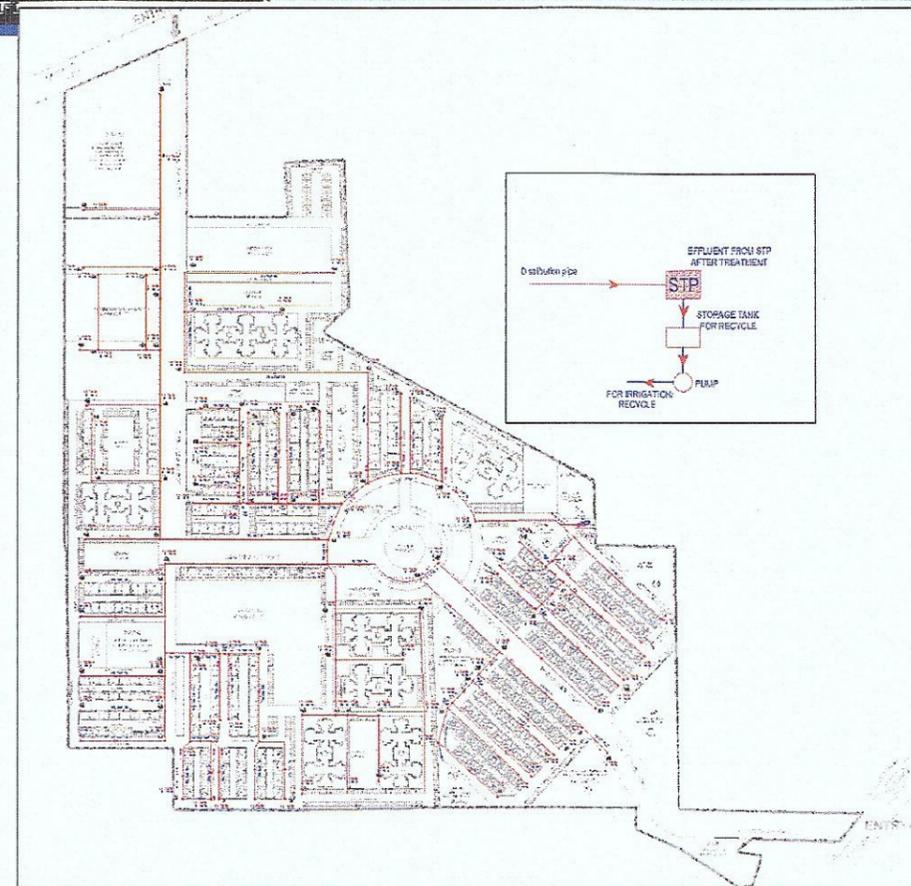
The proposed development of STP is planned to install at one location which has shown in the layout plan.

**5.3.8 Effluent Disposal**

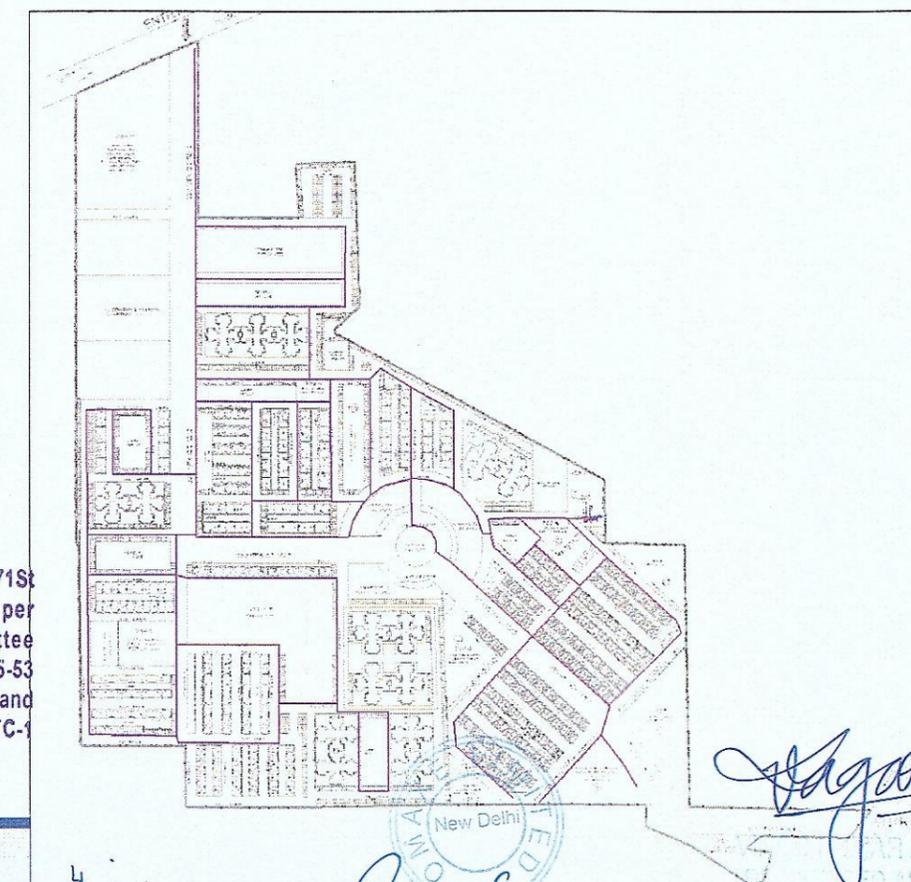
The Disposal of effluent is planned in such a way that no effluent from STP shall go outside of the township area as defined below

- 0.78 mld would be recycled to irrigate green areas of township
- Rest shall be recycled in flushing system of commercial and industrial areas

Approved by Controlling Authority in 71st Board Meeting dated 21/12/2011 as per Recommendations of the Committee constituted; Vide G.O. no. 6168-8-1-2006-53 Vividh / 06 Lucknow Dated 22/08/2006 and G.O. no. 4494-8-1-07-34 Vividh/08 TC-1 Lucknow Dated 07-12-2007



**Figure 5-4 Sewerage Network**



**Figure 5-5 Recycle Water Network**