**BASIC PRINCIPLES OF HOUSE DRAINAGE**

For the proper design and construction of house drainage system, the following general principles are followed:

- It is advisable to lay sewers by the side of building rather than below the building.
- The drains should be laid straight between inspection manholes.
- The house drain should be connected to the public sewer only if the level permits i.e., only when public sewer is deeper than the house drain. Otherwise there will be reverse flow from the public sewer to the house drain.
- The entire system should be properly ventilated.
- The house drainage should be contain enough number of traps at suitable points for efficient functioning of it.
- The joints should be watertight.
- The lateral sewers should be laid at proper gradient so that they will develop self cleansing velocity.
- The layout house drainage system permit easy cleaning and removal of obstructions.
- The sewage formed should be conveyed as early as possible after its formation.
- The materials of sewer should comply with the standard requirements.
- The rain water from houses is collected from roofs & is allowed to flow freely on the road surface for catch basins to convey it to the storm water drains.