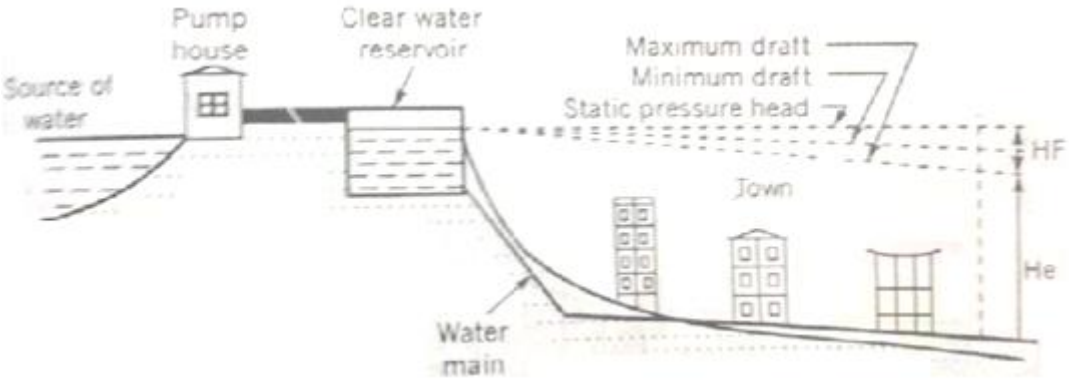
Distribution System:

Depending upon the level of source, topography of the area and other local conditions the water may be forced into distribution system by following ways

1. Gravity system
2. Pumping system
3. Combined gravity and pumping system

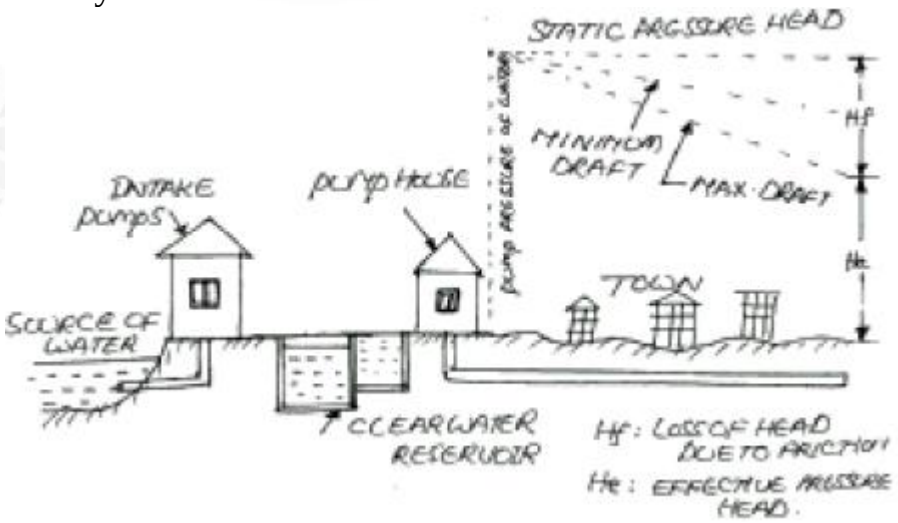
Gravity system..

a) Suitable when source of supply is at sufficient height.
b) Most reliable and economical distribution system.
c) The water head available at the consumer is just minimum required.
d) The remaining head is consumed in the frictional and other losses.
e) Water flows in mains due to gravitational pull, no pumping is required.



Pumping system…

a) Treated water is directly pumped in to the distribution main without storing.
b)Also called pumping without storage system.
c)High lifts pumps are required.
d)If power supply fails, complete stoppage of water supply.
e)This method is not generally used.



Combined gravity and pumping system..

a) Most common system.
b) Treated water is pumped and stored in an elevated distribution reservoir.

c) Then supplies to consumer by action of gravity.
d) The excess water during low demand periods get stored in reservoir and get supplied during high demand period.
e) Economical, efficient and reliable system.