Environmental Eng by G.B.

IS : 1172 (Basic supply

IS : 2065 (Plumbing

IS : 174 (

IS : 8025 (Odour

CPHEEO Manual

1. Water supply & treatments.
2. Sewage & wastewater treatments.
3. solid & hazardeous waste Managment.

surface Water :—

Treatment schmes

1) Raw Water — storage — chlorination — supply

2) Raw water — sedimentation — slow sand Filtration — chlorination — supply

3) Raw water — chlorination — Rapid mixing — flocculation slow mixing — sedimentation — chlorination — Rapid sand Filtration — supply

conventional *

RSF

4) Raw Water — Rapid Mixing — slow mixing — RSF — Post chlorination — supply

Ground Water

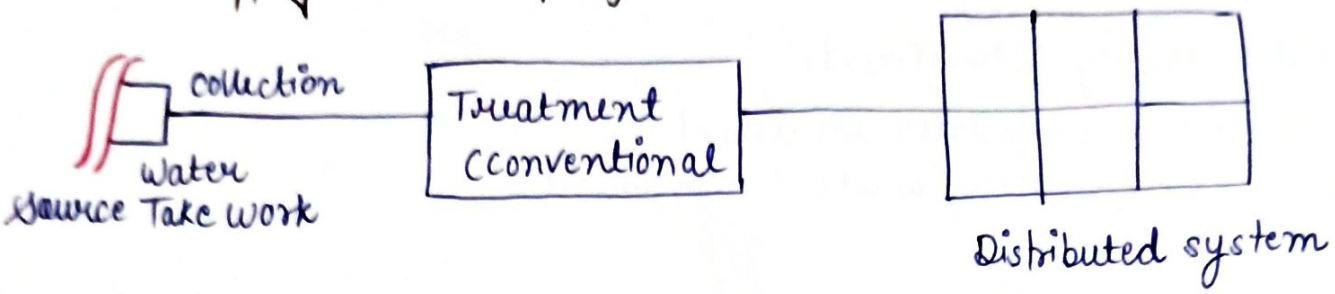
1) Raw water — chlorination — supply

2) Raw water — Aeration — R.M. — S.M. — S.E.D. — RSF — CL — supply

3). Raw Water — softening — RSF — Cl — supply

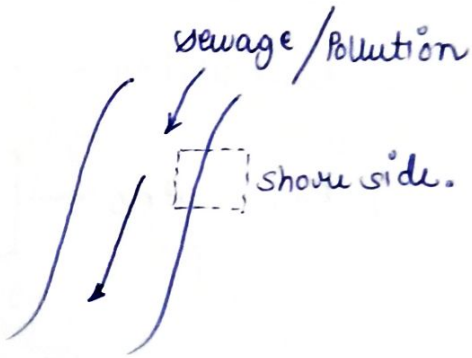
4). Raw Water — RSF — softening — CL — Demineralization — supply

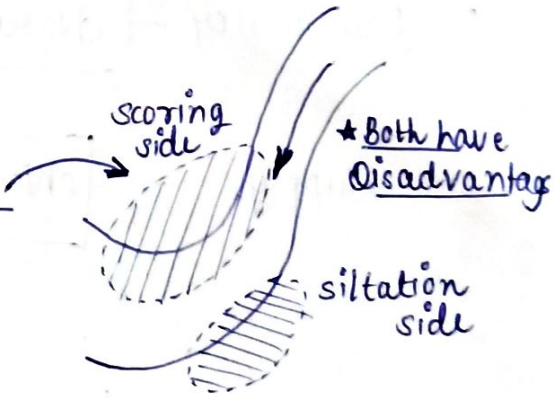
Water supply scheme / project



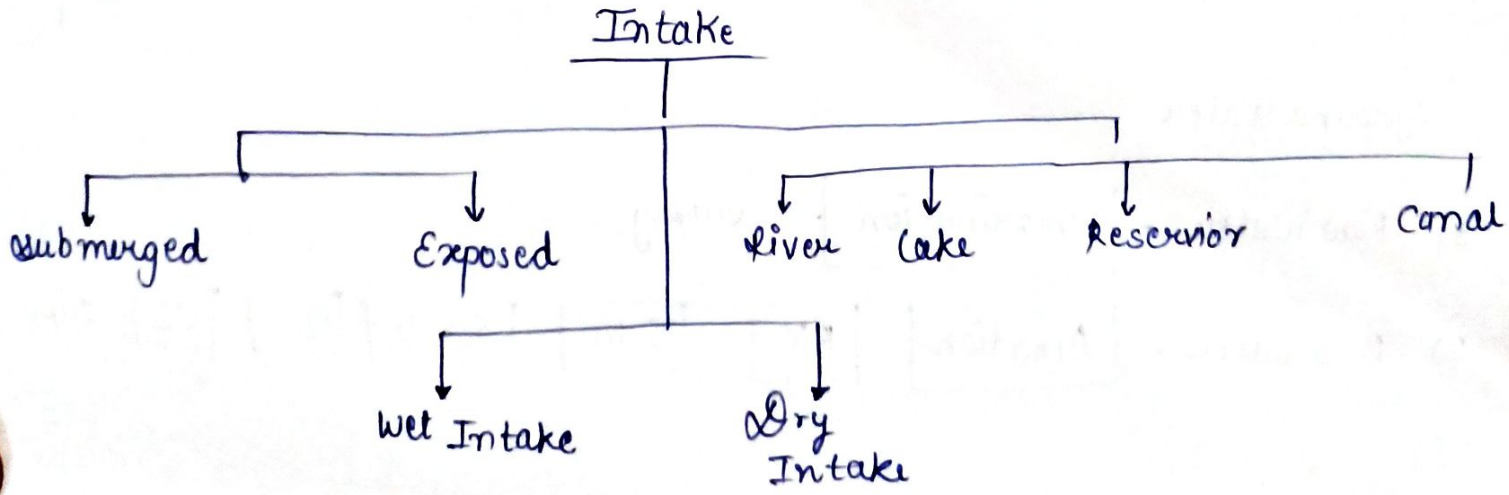

Selection of intake site.

1) Waater to be best quality.
2) To be fit for supply in worst condition.
   - Inside the shore line.
(3) Proximity - to Water treatment plant.
(4) To be protected from floating bodies.
(5) should not interfer into river traffic.
(6) good foundation condition & least scouring
(7) finite expansion is possible.
future

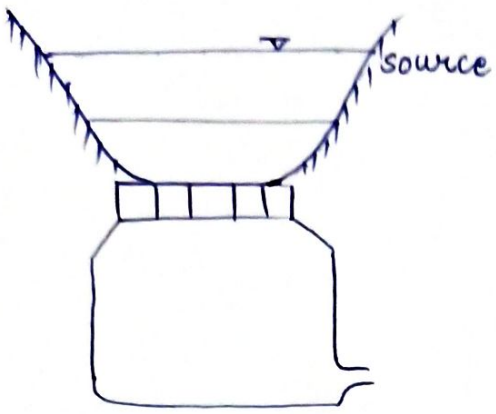



Types of Intake :-

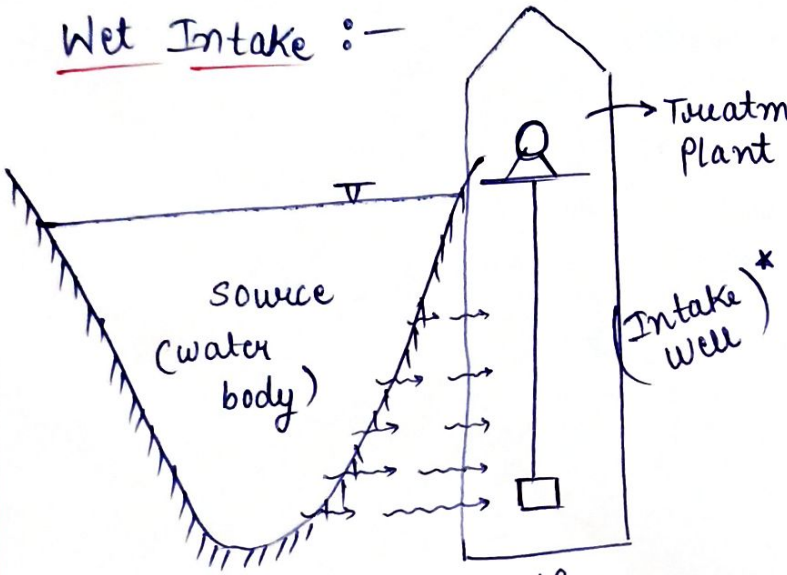


## Submerged Intake :—



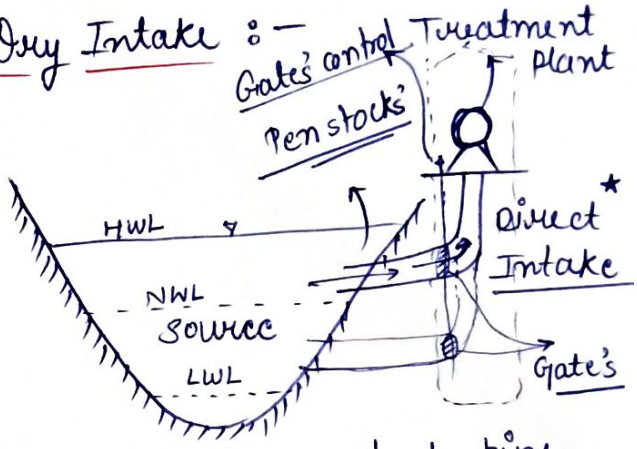

* It is Different from Ground water
* It benifit's are the purity of water is good and not problem with level of water.

## Wet Intake :—




* We use it where suction head is higher.

## Dry Intake :—




* Generally penstock pipe system is below from LWL (Lowest Water Level).