Water Treatment: Disinfection with chlorine and its elaboration, Water distribution system design

## Stories

## Lecture 15.16

Water Treatment: Disinfection:

- o Difference between disinfection and sterilization.
- o Influencing Factors: Doses, temperature, pH etc.
- o Properties of chemical disinfectant : Physical & Chemical.
- o Effective examples chemical disinfectants: Cl2,O3,I2,KMnO4,H2O2.
- o Different forms of free chlorine we can get.
- o Forms of Cl2 & NH3 compounds: Chloramines.
- o Disinfection Residual: Free and Combined.
- o Types of chlorination
- ☐ Chlorine Demand Curve: Pre-chlorination.
- ☐ Break Point Chlorination: 1.2.3.4.
- o Sources of Chlorine: Ca(OCI)2,CI2 etc.
- o Worked out problems on chlorination.

Water Distribution System Design:

- o Distribution Systems
- o Distribution Network

Definition of Done

- •4 sessions of discussion for Lecture 9.
- •3 sessions on class lecture & 1 on problems.
- Learned, understood, discussed on lecture & noted the topics of task.
- Designed the project and solved the problems.

1. Understood the topic.

- 2. Design project Complete.
- 3. Burn up chart done

Celebration

Criteria

4. Flap done.

Definition of fun

There was a chat about the ongoing ODI match against Bangladesh Vs Sri Lanka where Bangladesh were playing well.

Aerobics

To Do

Burn up Chart

Busy

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Done

## Lecture 15,16

Water Treatment: Disinfection:

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- Influencing Factors: Doses, temperature, pH etc.
- · Properties of chemical disinfectant : Physical & Chemical.
- · Effective examples chemical disinfectants : CI2.O3.I2.KMnO4.H2O2.
- · Different forms of free chlorine we can get.
- Forms of Cl2 & NH3 compounds: Chloramines.
- · Disinfection Residual: Free and Combined.
- Types of chlorination

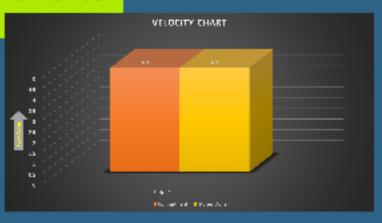
Chlorine Demand Curve: Pre-chlorination. Break Point Chlorination: 1.2.3.4.

- Sources of Chlorine : Ca(OCI)2,CI2 etc.
- · Worked out problems on chlorination.

Water Distribution System Design:

- · Distribution Systems
- Distribution Network

Run up **Charts** 



## Impediments

Facing difficulties to find appropriate times in the month of Holy Ramadan.

