



POORNIMA

INSTITUTE OF ENGINEERING & TECHNOLOGY

A

Workshop

Report

On

Practical Knowledge on Sewage Treatment Plant



Organized by

DEPARTMENT OF CIVIL ENGINEERING, PIET

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(HOD Department of Civil)



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Objective:

- To demonstrate the need for treatment of surface waters and some ground waters for drinking purposes.
- To introduce the concept of the multiple barrier principle and to describe the more common and important key processes.
- To describe the function of each treatment process in treating Sewage-water.
- To provide a basic outline on the selection of technology.
- The discuss the assessment of sewage treatment plants.

Expected Outcome:

- The students after the Workshop will get to know how actually the treatment of sewage water took place.
- They will get to know the practical application of the subject in their course Environmental Engineering.
- They will get to experience the whole process at the site.
- They will get to learn how different screens, processes like Aeration, Chlorination, Sedimentation etc. actually takes place in practical.
- All around their understanding about the subject will get to boost up and enhanced.
- Apart from these they will also get to interact with the site engineer, they will get to know the amount of money is invested and how the governments are concerned and aware about the water availability.



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Pic: Snapshot of Workshop

About the Workshop:

The Three days workshop conducted on “**Practical Knowledge on Sewage Treatment Plant**” on the **Day 23rd to 25th Jan 2017**. The Three Days workshop module are divided into three Session. On the day **23rd Jan 2017** Full day the seminar presentation on the Basic Knowledge of sewage Treatment Plant and The Day IInd **24 Jan 2017** go for visit on the sewage treatment plant for whole day .Third day **25th Jan 2017** a Technical paper are designed on the basis of sewage Treatment Plant conducted for the students for evaluation purpose. Workshop is all about visiting a site where construction of Sewage Treatment Plant (STP). The Experts are shown and taught about the whole process of treatment of sewage water, about the origin of waste water and the explanation of each sub-treatment procedure. The students are divided into groups led by the site engineers and these engineers taught about the whole programme and process of treatment to the students.



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Pic: Snapshot of STP

Participants:

The interested students from the 3rd year will be participants in the whole Workshop. Total 35 students are participating in this workshop.

Venue: Nearby Tara ki kut Jaipur

Resource Person:- Mr.Sunil Kumar Jain (Assistant Engineer)

Outcome & Evaluation:

The visit was quite helpful for the students to get the practical knowledge regarding the Functioning and process of municipal Sewage treatment plant. **Sewage treatment** is the process of removing contaminants from municipal wastewater, containing mainly household sewage plus some industrial wastewater. Physical, chemical, and biological processes are used to remove contaminants and produce treated wastewater (or treated effluent) that is safe enough for release into the environment. A by-product of sewage treatment is a semi-solid waste or slurry, called sewage sludge. The sludge has to undergo further treatment before being suitable for disposal or application to land. Students are clearly understood the concept of treatment process of sewage.



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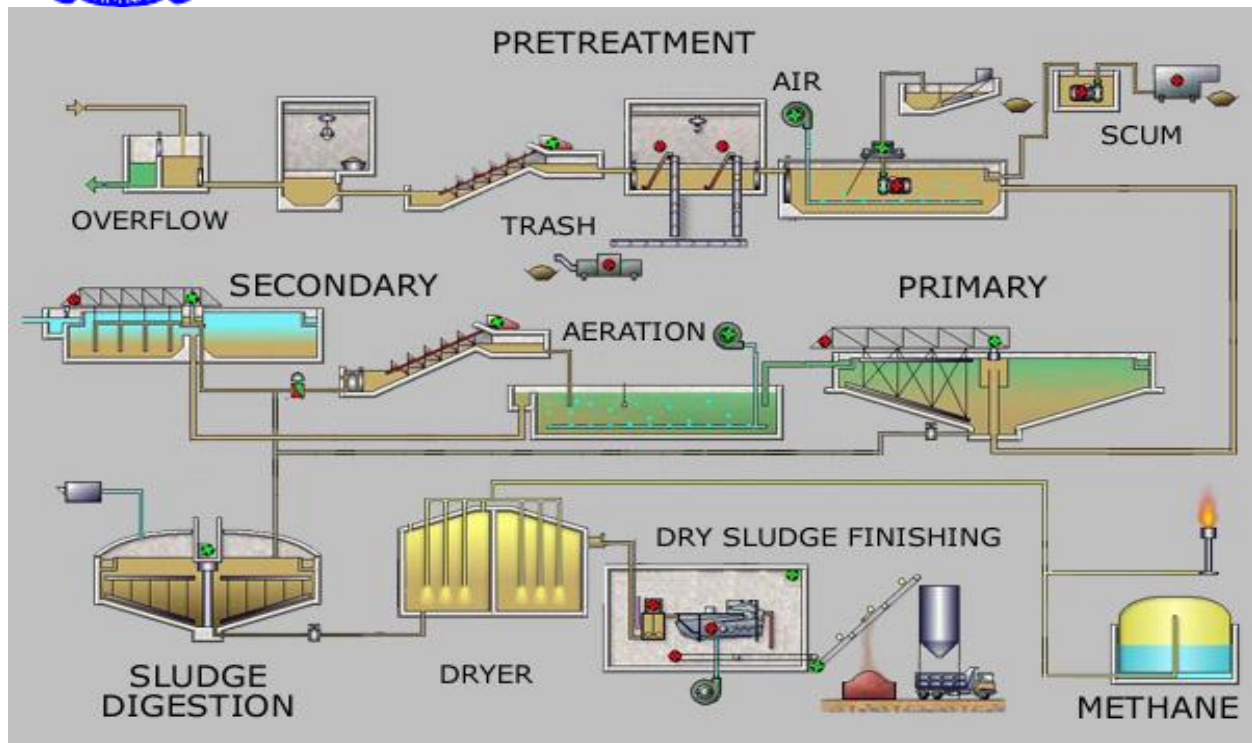


Fig. Flow chart of Sewage Treatment Plant

Question Paper

Question 1. What Is Waste Water? How Is It Generated?
Question 2. How Much Waste Water Is Generated In A Residential Complex?
Question 3. What Are The Constituents Of Waste Water (sewage) ?
Question 4. Why Treat Waste Water ?
Question 5. How Can Treated Sewage Be Re-used/recycled?
Question 6. How Is Waste Water Treated ?
Question 7. Why Not Consider Grey Water Treatment Seriously In Spite Of The Extra Space It Requires ?
Question 8. What Are The Problems That Can Be Expected With An Installed Stp?



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Question 9. How Much the Capacity of Sewage treatment plan?

Question 10. Describe is the full process of sewage treatment plan?

Evaluation sheet

Sr. No	Reg. No	Name of Students	Max. Marks
1	PIET16CV001	ABHILASHA KUMAWAT .	9
2	PIET16CV002	ABHISHEK JAIN .	5
3	PIET16CV004	ABHISHEK KUMAR	6
4	PIET16CV003	ABHISHEK KUMAR PRAJAPAT .	7
5	PIET16CV007	ABHISHEK MEENA	4
6	PIET16CV005	ABHISHEK SHARMA .	8
7	PIET16CV006	ADARSH KHANDAL .	9
8	PIET16CV008	AJAY KUMAR MEENA .	2
9	PIET16CV009	AJAY PAL SINGH .	7
10	PIET16CV010	AKASH KUMAWAT .	5
11	PIET16CV011	ALKA KUMARI RAI .	4
12	PIET16CV012	AMAN GOYAL .	5
13	PIET16CV013	ANIL BAGDIYA .	8
14	PIET16CV014	ANKIT KUMAR SINGH .	9
15	PIET16CV015	ANSUMAN KHICHAR .	5
16	PIET16CV016	ARBAAZ KHAN	8
17	PIET16CV017	ASHISH KUMAR MEENA .	6



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18	PIET16CV018	ASHISH KUMAWAT .	4
19	PIET16CV019	AYUSH CHANDELIA .	6
20	PIET16CV020	BHANUJ SINGH CHAUDHARY .	5
21	PIET16CV049	PANKAJ KUMAWAT	8
22	PIET16CV050	PAWAN KUMAR MEENA .	4
23	PIET16CV051	POORVI SHIVHARE .	7
24	PIET16CV052	PRAKHAR VYAS .	8
25	PIET16CV053	PRASHANT KUMAR RAVI .	5
26	PIET16CV054	PRASHANT MOTHIIYA .	6
27	PIET16CV055	PRAVEEN KUMAR SAINI .	9
28	PIET16CV056	PRAYANSHU JAGAT MEENA .	4
29	PIET16CV057	PUNEET KUMAR BALOT .	9
30	PIET16CV058	RACHIT SHRINGI .	9
31	PIET16CV059	RAHUL GURJAR .	5
32	PIET16CV061	RAJANISH CHANDRA SOLANKI .	4
33	PIET16CV062	RAVI KUMAR .	8
34	PIET16CV063	RAVI KUMAR MEENA .	7
35	PIET16CV064	RISHABH SINGH .	9