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DEP MIC 4TH SEM

Viva Assignment

 Microbial Ecology

Q ; Write a detailed note on waste water treatment .

Answer ;

 Waste water treatment

 It is a process ,which is used to convert waste water into useful effluent ,with no negligible health and environmental issues ,which is then returned back to water –cycle or in other words ,its can be reused .

Waste water treatment is a process used to remove contaminants from waste water or sewage and convert it into an effluent that can be returned to the water cycle with minimum impact on the environment ,or directly reused.

The latter is called water reclamation because treated waste water can be used for other purposes .

Waste water treatment solution

 Waste water treatment solution offers enhancement of activated sludge treatment processes .This gives a saving of 20 percent of carbon ,Aeration energy ,and returning operational savings direct to the bottom line .

Attendant compliance improvements can be further enhanced with tertiary treatment using next sand filtration .FGX3 is also used to remove biofilm on membrane treated waste water activated sludge reactors with a measurable increase in membrane .

Treatment steps

 Screening and pumping .the incoming waste water pass through screening equipment where objects such as rags , wood fragments ,plastics ,and grease are removed .

Step 2 ; Grit removal

Step 3 ; Primary settling

Step 4 ; Aeration / Activated sludge

Step 5 ; Secondary settling

Step 6 ; Filtration

Step 7 ; Disinfection

Step 8 ; Oxygen uptake .