



SVS INSTITUTE OF DENTAL SCIENCES

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DEPARTMENT OF PUBLIC HEALTH DENTISTRY

FIELD VISIT REPORT

LIST OF PROGRAMMES

- 1.WATER TREATMENT PLANT NAGASALA
2. RURAL HEALTH CENTRE, GMC, MAHABUBNAGAR
- 3.ANGANWADI CENTER, YEDIRA


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1. WATER TREATMENT PLANT

Date of The Visit : 15/11/2023



INTRODUCTION:

water treatment plants are based on coagulation, flocculation and disinfection processes and found to be most cost-effective in treating large quantities of water. However, they entail large infrastructure costs which is difficult to raise in rural regions of developing countries and are generally installed using government funding.

Coagulation And Flocculation

Naturally occurring silt particles suspended in water are difficult to remove because they are very small, often colloidal in size, and possess negative charges, and are thus prevented from coming together to form large particles that could more readily be settled out. The removal of these particles by settling requires first that their charges be neutralized and second that the particles be encouraged to collide with each other. The charge neutralization is called coagulation, and the building of larger flocs from smaller particles is called flocculation.

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Sedimentation

During sedimentation, floc settles to the bottom of the water supply, due to its weight. This settling process is called sedimentation.

Filtration

Once the floc has settled to the bottom of the water supply, the clear water on top will pass through filters of varying compositions (sand, gravel, and charcoal) and pore sizes, in order to remove dissolved particles, such as dust, parasites, bacteria, viruses, and chemicals.

Disinfection

After the water has been filtered, a disinfectant (for example, chlorine, chloramine) may be added in order to kill any remaining parasites, bacteria, and viruses, and to protect the water from germs when it is piped to homes and businesses.


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2. RURAL HEALTH CENTRE

Date of The Visit: 05/1/24



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3. ANGANWADI CENTRE

Date of The Visit: 8/9/2023



Attn: Principal

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