



☎ : 0424 - 2244101  
Mob : 99767 51115  
Fax : 0424 - 2244102

## **VELLALAR COLLEGE FOR WOMEN (AUTONOMOUS)**

**"COLLEGE WITH POTENTIAL FOR EXCELLENCE"**

(Re-accredited with 'A' Grade by NAAC, Bengaluru & Affiliated to Bharathiar University, Coimbatore)

Thindal, Erode - 638 012, Tamilnadu.

e-mail: [principalvcw@gmail.com](mailto:principalvcw@gmail.com) \* website: [vcw.ac.in](http://vcw.ac.in)

### **7.1.4. WASTE WATER RECYCLING**



☎ : 0424 - 2244101  
Mob : 99767 51115  
Fax : 0424 - 2244102

## VELLALAR COLLEGE FOR WOMEN (AUTONOMOUS)

"COLLEGE WITH POTENTIAL FOR EXCELLENCE"

(Re-accredited with 'A' Grade by NAAC, Bengaluru & Affiliated to Bharathiar University, Coimbatore)

Thindal, Erode - 638 012, Tamilnadu.

e-mail: principalvcw@gmail.com \* website: vcw.ac.in

### Waste Water Recycling

A revamp of the existing Waste Water Recycling Plant is afoot using advanced technology. The updated version of the Sewage Treatment Plant comprises the Electromechanical equipments like Bar Screen, Raw Sewage Transfer Pump, Air Blower, MBBR Media, Diffusers, Sludge Transfer Pump, Filter Feed Pump, Dosing System, Pressure Sand Filter, Activated Carbon Filter, Interconnecting Pipes, Valves and Wall Mounted Electrical Panel and Cabling for speedy and effective treatment.

- The recycling process starts with the collection of raw sewage from various sources in the Collection Tank through Bar Screen.
- The screened sewage is then sent to the settling agent mixing channel where suspended particles get settled. The settling agent mixed water is sent to the Primary Settling Tank for sludge settling process
- The sludgeless water is sent to the Aeration Tank. Air diffusion is provided in the Aeration Tank through air blower and diffuser arrangement. It enables the growth of bacteria, otherwise called Multi Level Suspend Solids (MLSS) which helps in Chemical Oxygen Demand (COD) and Biological Oxygen Demand (BOD) deduction process
- The aerated sewage is sent to the Settling Tank where the sludge gets settled at the bottom of the tank
- The clarified water is then sent to the Clarified Water Tank
- The settled sludge is recirculated to the Aeration Tank to maintain the MLSS concentration and excess sludge will be pumped to sludge holding tank from where it is pumped to the dry beds for dewatering purpose and the solid waste can be used as manure
- The clarified water is then pumped to Pressure Sand Filter and Activated Carbon Filter using Filter Feed Pump in order to remove the suspended particles and odour
- Sodium Hypo Chloride is used for disinfection purposes and the filtered water is used for gardening

  
Dr. S.K. Jayanthi, M.Sc., PGDCA., M.Phil., Ph.D.,  
Principal  
Vellalar College for Women  
(Autonomous)  
Erode - 638 012.

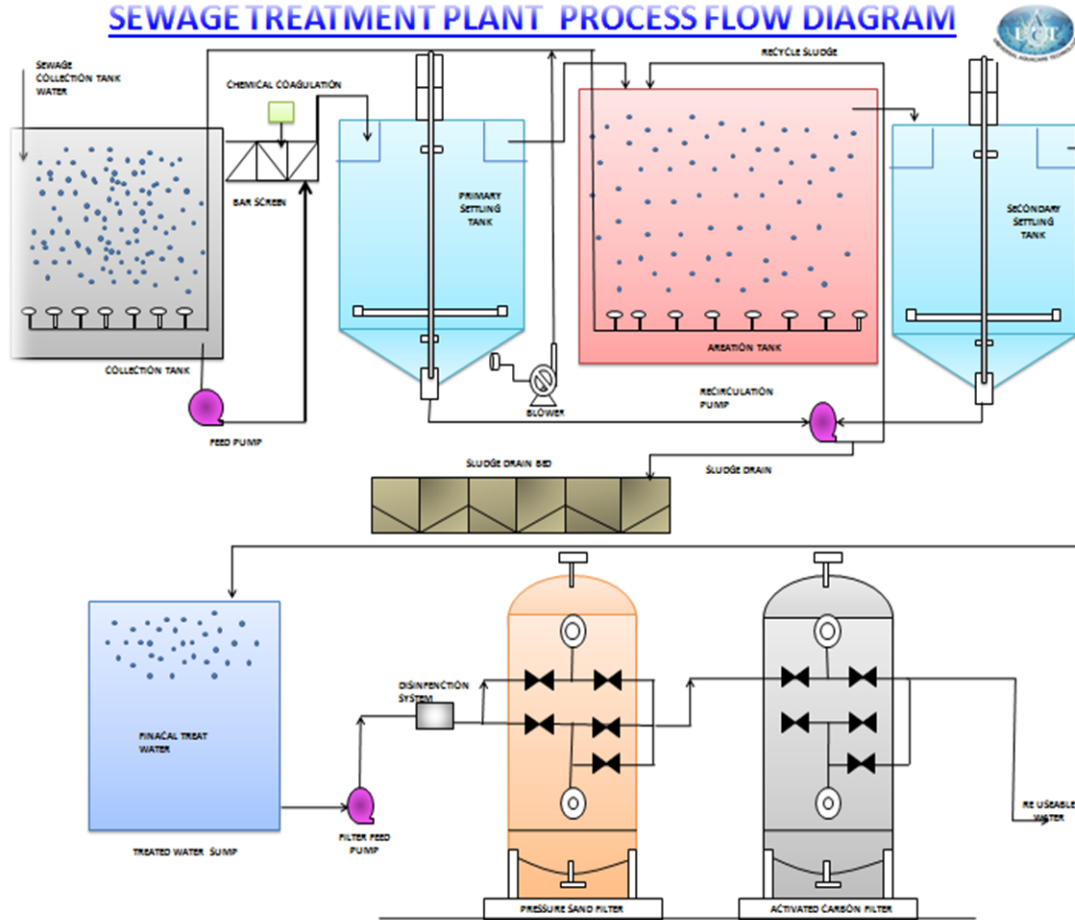


☎ : 0424 - 2244101  
Mob : 99767 51115  
Fax : 0424 - 2244102

**VELLALAR COLLEGE FOR WOMEN (AUTONOMOUS)**  
"COLLEGE WITH POTENTIAL FOR EXCELLENCE"  
(Re-accredited with 'A' Grade by NAAC, Bengaluru & Affiliated to Bharathiar University, Coimbatore)  
Thindal, Erode - 638 012, Tamilnadu.  
e-mail: principalvcw@gmail.com \* website: vcw.ac.in

## Water Recycling Plant

### SEWAGE TREATMENT PLANT PROCESS FLOW DIAGRAM



  
Dr. S.K. Jayanthi, M.Sc., PGDCA., M.Phil., Ph.D.,  
Principal  
Vellalar College for Women  
(Autonomous)  
Erode - 638 012.



☎ : 0424 - 2244101  
Mob : 99767 51115  
Fax : 0424 - 2244102

## VELLALAR COLLEGE FOR WOMEN (AUTONOMOUS)

**"COLLEGE WITH POTENTIAL FOR EXCELLENCE"**

(Re-accredited with 'A' Grade by NAAC, Bengaluru & Affiliated to Bharathiar University, Coimbatore)  
Thindal, Erode - 638 012, Tamilnadu.

e-mail: [principalvcw@gmail.com](mailto:principalvcw@gmail.com) \* website: [vcw.ac.in](http://vcw.ac.in)



Latitude: 11.324338  
Longitude: 77.676732  
Elevation: 207.76±12 m  
Accuracy: 11.1 m  
Time: 15-02-2020 15:51

Powered by NoteCam



Latitude: 11.324126  
Longitude: 77.676659  
Elevation: 198.09±12 m  
Accuracy: 11.0 m  
Time: 15-02-2020 15:49

Powered by NoteCam