



CENTRAL POLLUTION CONTROL BOARD

Zonal Office (South)

Nisarga Bhavan, Thimmaiah Road
Shivanagar, Bangalore - 560 010

Inspection Report of M/s Coimbatore Sewage Treatment Plant at Ukkadam, Coimbatore

1	Name & Location of STP		M/s Coimbatore Sewage Treatment Plant at Ukkadam Ward No Ap-42, Block No-17 Coimbatore (South) Taluk Coimbatore		
2	STP constructed by		Coimbatore Corporation. The STP is constructed under Jawaharlal Nehru National Urban Renewal Mission		
3	Population of the town		35% of Coimbatore town population/ 36 wards (Approximately 5lakh population)		
4	Process of sewage treatment		Sequential Batch Reactor		
5	Design capacity		70 MLD		
6	Actual capacity		24 MLD		
7	Consent & Authorization		Copy of consent under Water Act, 1974 has expired on March 31, 2013. Copy of the same is enclosed as Annexure-I .		
8	Description of treatment units		Bar screens of mesh size 20mm Fine screens with clear openings of 6mm 4no.s of aeration tanks Decanter		
	Activated sludge process	waste sludge generation	125 m ³ /hr Centrifuge is available for dewatering of surplus activated sludge.		
9	Final treated effluent characteristics		parameter	Standard	Measured value
			Fecal Coliform	-	11400 CFU/ 100ml
			Total Coliform	1000 MPN/100ml	61650 CFU/100ml
10	Biogas produced if any		Nil		
11	Power generation if any		Nil		

12	Point of treated sewage disposal	the treated sewage is used for irrigation/ gardening and excess surplus water is discharged into inland surface waters without any stagnation
13	Mode of sludge disposal	Grit and sludge from centrifuge after stabilization are disposed in a proper way
14	Bypass arrangement of STP, if any	Nil

Observations:

- The Coimbatore corporation constructed M/s Coimbatore Sewage Treatment Plant of capacity 70 MLD at Ukkadam under JNURM project.
- The STP was inspected by Sh. G. Dharmalingam, Sc-“C” during November, 2013
- The sewage entering the facility was first screened using bar screens of 20mm mesh and then with fines screens of 6mm mesh. The sewage is treated by Sequential Batch Reactors.
- The screened sewage is simultaneously filled into four aeration basins. Filling and aeration takes around 1 ½ hour after which the sewage is allowed to settle for 45 minutes. The solids settle to the bottom of the tank and the treated sewage from the top is decanted and stored in separate tank.
- Sludge from the bottom is taken to centrifuge to obtain sludge cakes, which after stabilization is sold as manure.
- The treated sewage is used onland for gardening/ irrigation and the excess water is discharge into surface water body.
- Treated sewage samples from collected from the outlet of STP and it is clear from the analysis results that the Total Coliforms in treated sewage is 61,650 CFU/100ml against the standard of 1000 MPN/ 100ml. Copy of analysis results is placed as **Annexure-II**.
- It is observed that since the facility is not practicing disinfection, the treated sewage is containing T.coliforms in the range 61,650 CFU/100ml.

Recommendations: The Coimbatore Corporation shall be directed to ensure the following

- To obtain valid consent under the Water Act, 1974 and The Air Act, 1981
- To operate the STP properly so as to achieve the notified standards.
- To disinfect the sewage by either chlorination or by other suitable means before discharge into land or water body.