

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI**

ORIGINAL APPLICATION NO 188 of 2021 (SZ)

**REPORT FILED BY THE ENVIRONMENTAL ENGINEER,
KERALA STATE POLLUTION CONTROL BOARD, FOR AND
ON BEHALF OF THE RESPONDENT**

Adv. Rema Smrithi.

ADDITIONAL STANDING COUNSEL FOR THE RESPONDENT:

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI
IN**

ORIGINAL APPLICATION NO.188 of 2021(SZ)

S.Sakthivel,Salem : Applicant

Vs

MoEF&CC,Rep.by its Secretary
to Government New Delhi & others : Respondents

VOLUME 1

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Dated this the 21st January 2022

Rema Smrithi, Advocate
ADDITIONAL STANDING COUNSEL FOR THE RESPONDENT:

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI**

ORIGINAL APPLICATION NO 188 of 2021 (SZ)

Applicant : S. Sakthivel, Salem

Respondents : MoEF&CC, Rep. by its Secretary
to Government New Delhi & others

**REPORT FILED BY THE ENVIRONMENTAL ENGINEER, REGIONAL OFFICE,
ERNAKULAM
FOR AND ON BEHALF OF THE KERALA STATE POLLUTION CONTROL BOARD**

1. I, Mini Mary Sam, now working as the Environmental Engineer, Regional Office, Kerala State Pollution Control Board, Ernakulam do here by submit that I am duly authorized to represent the Board. I know the facts and circumstances of the case and I may submit as follows
2. In the order dated 1.12.2021, the Hon'ble Tribunal has directed this respondent to file further report on the basis of the allegations made in the application and the nature of further action taken in cases where the institutions have committed violation .
3. The petitioner has raised allegation against 12 Medical Colleges functioning in the state, out of which 6 are having valid consent of the Board. The other six hospitals which do not have valid consent of the Board were inspected by Board officers and the action taken are reported as follows:

1) KMCT Group of Institution, Kozhikode

This is a 500 bedded hospital. Water consumption is 150m³/d and effluent generation is 120m³/d. Existing capacity of STP is 300m³/d. STP components consist of oil & grease trap, equalisation tank, FAB reactors , Tube settler, disinfection tank, filter feed tank, treated water tank, sludge drying bed and Ultra Filtration facility. RO plant and glass bottle sterilization units are provided for drinking water. Treated




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Environmental Engineer(HG)

water is used for flushing and irrigation. They are planning to increase the capacity of STP to 500m³/d for future expansion. Construction work for augmentation of STP is progressing. Inspection was conducted on 09.11.2021 as part of consent enquiry. During inspection STP was seen functional. As per analysis report all the parameters are within the limit as prescribed by the Board. The consent application is under processing.

2) Karuna Medical College Hospital, Palakkad

This is a 450 bedded hospital. Capacity of the STP is 250KLD. STP consists of collection tank, parallel plate separator, bio tower, chlorination facility, sand filter bed, sludge digestion tank and treated effluent tank. Treated water is used for irrigation.

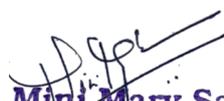
The hospital was inspected from district office of the Board on 30.12.2021 and it was observed that the augmentation of sewage treatment plant had not been completed. Hence a notice of intention of refusal of consent was issued on 31.12.2021, for showing the reason for not refusing the consent of the Board and for not issuing closure order. Follow up action is being taken by the Board in this regard. Copy of the notice issued to the hospital authorities is enclosed as Annexure R4(a)

3) TD Medical College, Alappuzha

This is a Government Medical College with bed strength 1038 nos. The consent issued to T.D. Medical College Hospital is for an Effluent generation of 1500m³/day. The hospital was inspected on 23.12.2021. The hospital is operating without renewing the consent of the Board. The working of the STP was seen not satisfactory during the time of inspection. Quantity of sewage reaching the STP is very low (plumping works have to be done to collect and direct complete waste water to STP).

STP consists of collection tank, grit channel, fixed bed reactor, primary clarifier, aeration tank, secondary clarifier, sludge recycling pump, sludge pump, filter feed, filter press, anerobic sludge digester, pressure sand filter, activated carbon filter and treated water storage tank.




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Diffuser for aeration tank is working only partially. Current non operating components are secondary clarifier, sludge recycling pump, filter press, anaerobic sludge digester and pump used in filters. No periodical replacement of media in the filtration units is done so far and water meter has not been provided for STP. The treated water is discharged to Kappithodu. Directions have been given to rectify the defects of the STP.

4)SUT Academy of Medical Science, Thiruvananthapuram

The hospital had submitted the application for consent to operate renewal on 04.01.2022. Inspection was conducted on 01.01.2022 and STP was found functional. Capacity of STP is 150KLD. STP consists of Bar Screen, Oil Skimmer Tank, Sewage Collection Tank, Aeration Tank (MBBR), Settling Tank , Filter Feed Tank , Garden Tank , Pressure Sand Filter, Activated Carbon Filter and Disinfection system. They are using the treated water for gardening. The application is under processing with the Board.

5)Dr. SM CSI Medical College, Karakonam

Inspection was conducted by Board Officers on 31.12.2021. During the inspection STP was working. Existing capacity of STP is 500KLD. STP consists of Bar Screen, Oil Skimmer Tank, Sewage Collection Tank , Aeration Tank (Activated Sludge Process), Hopper Bottom Settling Tank , Filter Feed Tank , Garden Tank, Pressure Sand Filter , Activated Carbon Filter & Disinfection unit. Treated effluent is being stored in an Open Pond and is further used for irrigation purpose. During the inspection, it was found that pump for lifting sludge attached to settling tank and sludge drying beds were not working. Direction was issued to rectify the defects in a time bound manner.



[Handwritten Signature]
Mini Mary Sam
 Environmental Engineer(HG)

6)Kannur Medical College

Inspection was conducted on 22.10.2021. This is a 300 bedded hospital. When the hospital had started functioning, many institutions like medical college, engineering college etc were functioning in the same campus. Hence the STP installed was of inadequate capacity to treat the entire quantity of effluent generated. Later the inpatients started decreasing to as low as 10-15 numbers. All other institutions except Medical College had stopped functioning.

During covid pandemic situation, the hospital has been converted to covid treatment hospital. STP capacity is 175kld. At present, the STP installed is sufficient for treating the waste water generated and it is maintained properly. Ultra filtration facility is provided. Treated water is used for landscaping and irrigation. The consent renewal application is under processing.

All that is stated above are true to the best of my knowledge , information and belief.

Dated this 21st day of January 2022




Environmental Engineer
Mini Mary Sam
Environmental Engineer(HG)