

Phone & Fax : 2241 6605



## SREE BALAJI COLLEGE OF NURSING

(Recognised By Indian Nursing Council, New Delhi and The Tamilnadu Nurses and Midwives Council )  
(Approved by Govt. of Tamil Nadu and Affiliated to Bharath Institute of Higher Education and Research)

No.7, Works Road, Chromepet, Chennai - 600 044.

1 November 2019

The Deputy Director (Training Centre)  
CMWSSB,  
No.56, Raji Street,  
Ayyanavaram,  
Chennai – 600 023.

Respected Sir/Madam,

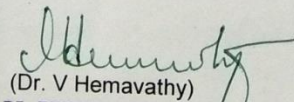
Sub: Request permission for two days Observational Visit – for II year B.Sc., (N), I year M.Sc., (N) & II year Post Basic B.Sc., (N) Students - reg.

As part of the curriculum, the I year M.Sc., (N) (1 candidate), II year B.Sc., (N) (44 candidates) and II year Post Basic B.Sc., (N) (6 candidates) need to gain knowledge about Water Treatment Plant and Sewage Treatment Plant. Therefore we request you to kindly permit the students for one day observational visit in Water treatment plant at Puzhal or Kilpauk on 13.11.2019 & 14.11.2019 and in Sewage treatment plant at Perungudi on 13.11.2019 & 14.11.2019. Two faculties will accompany along with the students.

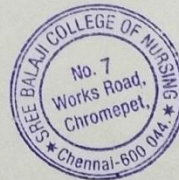
Kindly intimate the date and time most convenient for you.

Thanking you,

Yours sincerely,

  
(Dr. V Hemavathy)

Dr. V. HEMAVATHY,  
M.Sc.(N), M.A., M.Phil., Ph.D.(N),  
PRINCIPAL  
SREE BALAJI COLLEGE OF NURSING  
No. 7, Works Road, Chromepet,  
Chennai-600 044.





**CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD**  
No.1, Pumping Station Road, Chintadripet, Chennai - 600 002.

DEPUTY DIRECTOR (TC)

Lr. No.CMWSSB/TC/Field visit/61/2019-20 dated 11.11.2019

To  
The Principal,  
Sree Balaji College of Nursing,  
No.7, Works Road, Chrompet,  
Chennai – 600044.

Sir,

**Sub:** CMWSSB – Training Centre - Sree Balaji College of Nursing,  
Chennai - Permission requested for field Visit – Accorded – Reg.

**Ref:** Your Letter dt. 01.11.2018 addressed to the Deputy. Director (TC),  
Training Centre, CMWSSB along with 2(Two) Nos. of DD  
for Rs.5,000/- DD No.303609 dt. 08.11.2019 drawn at Indian  
Bank, Kilpauk Branch and for Rs.900/-  
DD No.303611 dt. 08.11.2019 drawn at Indian Bank,  
Kilpauk Branch.

With reference to the letter cited, permission is hereby accorded for field visit to  
the **WTP and STP** for B.Sc. and M.Sc. Nursing students along with faculty of your  
Institution as follows:

Sl.No	No. of Batches	No of students	Kilpauk WTP	Perungudi STP
1	Batch I	25	13.11.2019	14.11.2019
2	Batch II	25	14.11.2019	13.11.2019

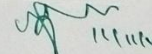
This permission is accorded subject to the following conditions:

1. The permitted persons to adhere the safety norms and discipline also follow the instructions of CMWSSB officials at site during the time of visit .

2. The health conditions of the permitted persons are to be ascertained by the Institution authorities themselves before planning on their visit to the CMWSSB site.
3. Safety and responsibility of the permitted persons are solely rest with the concerned education Institutions. Minimum of 2 senior persons from the Institution should accompany the permitted persons during the field visit
4. CMWSSB is not liable for damage to both personnel and belongings caused during the field visit.
5. CMWSSB is not liable for any accidents or loss of life caused during the field visit.
6. The damages if any caused to the Board's installations, natures etc., by the permitted persons, the consequences and cost of the same should be borne by them.
7. The data collected from CMWSSB should be used only for the purpose of their study and should not divulge any information, publication of articles in Newspapers or any media or presentation in any public forum.
8. Any report, if prepared, should not be published without the consent of CMWSS Board and a copy of such report has to be submitted to CMWSS Board.
9. The permitted persons should not take any photograph or videos or any type of Audio/Video recording during their visit at CMWSSB site.
10. The permitted persons are not allowed to use their cellphone during their visit at CMWSSB site.
11. The permitted persons should wear shoes only.

Apart from the above, the instructions mentioned in the enclosure (Tamil & English) should be followed strictly.

You are requested to contact the A.E.E./Kilpauk WTP, Mobile No: 8144930456 and A.E.E./Perungudi STP, Mobile No: 8144930454 for further information and guidance.



Dy. Director (TC)

**DEPUTY DIRECTOR**  
Training Centre  
CMWSS Board, Chennai - 600 023

# SEWAGE TREATMENT PLANT FIELD VISIT REPORT

**IN**

**PENRUNGUDI**



**BATCH: 2019-2020**

## INTRODUCTION:

We are the students of B.Sc Nursing Ist Year of Sree Balaji College of Nursing visited in Perungudi Sewage Treatment Plant at 10:00 am , College bus of B.Sc Nursing Ist Year and 2 staff of Sree Balaji College of Nursing. As soon we reached there they welcomed us and started to present about the Sewage Treatment Plant.



## HISTORY:

Chennai city Sewage System was designed in 1910 for estimated 1961 population of 6.6 lakhs. The proposal for comprehensive drainage scheme to cater to need of a topographically flat, fast growing city was formulated in 1907 and were initiated in 1910 and completed during 1914 in stages.

The fundamental change to this system was made in 1956 by laying a force main to divert part of the Sewage discharge from Purasdiwalkam pumping Station to Kodungaiyur where Sewage farm was started.

**Zone I:** Of sewage system forms the oldest part of the city and is in the North Eastern portion of City bounded by Bay of Bengal to East, the city limits to the North, the Buckingham Canal to the West and Pycrafts Roads to the South.

**Zone II:** It is the largest of the 5 macro system and serves the central and Northern portion of City.

**Zone III:** Lies between Zone II and Zone IV to the West. It comprises Thayagaraya Nagar, Kodambakkam, Arumbakkam, Anna Nagar and Koyambedu.

**Zone IV:** Is the smallest of the macro system lying to the Southwest of the city.

**Zone V:** Is the 2<sup>nd</sup> largest of the five macro system and is to the South of the city which is bifurcated by the Adhyar River.

## **CHENNAI METROPOLITAN AREA:**

Chennai city is the capital of Tamil Nadu and fourth largest Metropolitan city in India. The Chennai metropolitan area comprises the city of Chennai and its outlying Urban and Rural Areas.

# **METHOD OF SEWAGE TREATMENT PLANT:**

There are 4 ways to treat waste water. The procedures of the treatment are:

- ❖ Physical wastewater Treatment
- ❖ Biological wastewater Treatment
- ❖ Chemical wastewater Treatment
- ❖ Sludge Treatment

## **Physical wastewater Treatment-**

In this physical method are used for cleaning the wastewater. Process like screening, sedimentation and skimming are used to remove the solid. No chemical are involved in this process.



### **Biological wastewater Treatment-**

This uses various biological processes to break down the organic matter present in wastewater, such as soaps, human waste, oils and food. Involvement of Aerobic and Anaerobic process takes place.

Secondary treatment removes most of the solid present in wastewater, however dissolved nutrient may remain.

### **Chemical wastewater Treatment-**

As the name, this treatment involves the use of chemical in water. Chemical prevent the bacteria from reproducing in the water, thus making the water pure.

### **Sludge wastewater Treatment-**

This is a solid-liquid separation process where the least possible residual moisture is required in the solid phase and the lowest possible solid particle residues are required in the separated liquid phase.

We all have taken to the field of Sewage treatment plant where the staff of the CMWSSB showed and explained us the process. Big tankers of gas cylinder they showed us, which are used as various resources like for *generating electricity and etc.*

### **CONCLUSION:**

Wastewater has a lot of impact on the natural world and it is important to treat it effectively. By treating wastewater we don't just save the creatures thriving on it, planet as a whole.

We gained knowledge through the visit; it's very useful to know the value of water in each one of our life and the way they treating the sewage water for our future consumption. By getting such a great opportunity to undergo this visit at



**SREE BALAJI COLLEGE OF NURSING**

**NAME LIST OF THE STUDENTS ATTENDING FIELD VISIT**

**SEWAGE TREATMENT PLANT**

<b>S.NO</b>	<b>REG. NO</b>	<b>NAME OF THE CANDIDATE</b>
1	U19NR001	AASHIQ KUR RAHMAN A D
2	U19NR002	ABIN V K
3	U19NR003	ABINAYA G
4	U19NR004	AKSHAYA P K
5	U19NR005	ANOOPA SHINU
6	U19NR006	ANSATHHAMEEM A
7	U19NR007	ANSU SUNIL
8	U19NR008	ANUSUYA A
9	U19NR009	ARCHANA A
10	U19NR010	ARCHANA TOPPO
11	U19NR011	ARUN KUMAR J R
12	U19NR012	ASHIKA S
13	U19NR013	ATHULYA R V
14	U19NR014	BHARANIDHARAN M

15	U19NR015	CATHERINE THERESA JOY
16	U19NR016	CATHRINE Y
17	U19NR017	CHANDRU P
19	U19NR019	CHITRA C
20	U19NR020	DEEPA T
21	U19NR021	DEEPIKA S
22	U19NR022	DEVIPRIYA A M
23	U19NR023	DIVYA SHREE S
24	U19NR024	GAYATHRI R
25	U19NR025	GOKUL P
26	U19NR026	HAMAPPRIYA V
27	U19NR027	HARITHA S
28	U19NR028	HELEN JEBA P
29	U19NR029	HEMALATHA A
30	U19NR030	INDUMATHI A
31	U19NR031	JANET V
32	U19NR032	JAYASRI K
33	U19NR033	JEEVA PAUL
34	U19NR034	JENITA PRINCY A
35	U19NR035	JOSE HENRY V
36	U19NR036	JOYLIN VICTORIA V

