



## **7.1.4 Water conservation facilities available in the Institution.**

**Water conservation facilities available in the Institution.**

**Facilities  
Maintenance of water bodies**



## 7.1 Institutional Values and Social Responsibilities

### 7.1.4 Water conservation facilities available in the Institution:

#### MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN THE CAMPUS

The stored rain water is pumped into storage tanks located at different places in the campus. The water is distributed through well laid pipe network. Drinking water after treating in RO plant is supplied through a separate set of distribution pipes and water for all other purpose is supplied through another set of distribution pipes. Maintenance department ensure that there are no leakages and wastages of precious water through joints, valves etc. Waste usage of water is reduced using low pressure flushes. All the stakeholders of the college are well educated to use the water economically and efficiently.

#### REVERSE OSMOSIS PLANT

The RO plant is designed for 50% recovery to produce 2000 LPH of permeate water for drinking purpose. Our RO plant capacity is 10000 Ltr. During working days of college 10,000 Ltr of water is used for various purposes. The chemicals like Citric acid and Caustic soda flakes is used for chemical wash. UV light and UV micron filter is used for purification purposes.

**Dr. B.R.RAMESH BAPU**  
B.E., M.E., M.S (Engg), Ph.D.  
PRINCIPAL  
**PRATHYUSHA ENGINEERING COLLEGE**  
Poonamallee to Thiruvallur High Road,  
Chennai - 602 025.

## DISTRIBUTION OF DRINKING WATER

| DRINKING WATER TANK DETAILS |         |                    |               |       |
|-----------------------------|---------|--------------------|---------------|-------|
| S NO                        | Tank No | Location           | Tank Capacity | Units |
| 1                           | Tank 1  | Main Building      | 2000          | Lit   |
| 2                           | Tank 2  | ECE Block          | 1000          | Lit   |
| 3                           | Tank 3  | Civil & Mech Block | 1000          | Lit   |
| 4                           | Tank 4  | EEE Block          | 2000          | Lit   |
| 5                           | Tank 5  | P.G Block          | 2000          | Lit   |
| 6                           | Tank 6  | Boys Hostel        | 2000          | Lit   |



**Dr. B.R.RAMESH BAPU**  
B.E., M.E., M.S (Engg.), Ph.D.  
PRINCIPAL  
**PRATHYUSHA ENGINEERING COLLEGE**  
Poonamallee to Thiruvallur High Road,  
Chennai - 602 025.

## MAINTENANCE OF WATER BODIES IN THE CAMPUS

| COOLER DETAILS |                           |              |              |          |
|----------------|---------------------------|--------------|--------------|----------|
| S.NO           | Block Name                | Cooler NO    | Floor        | Capacity |
| 1              | Main Building             | Cooler No 1  | Ground Floor | 100 lit  |
| 2              |                           | Cooler No 2  | Ground Floor | 100 lit  |
| 3              |                           | Cooler No 3  | First Floor  | 50 lit   |
| 4              |                           | Cooler No 4  | First Floor  | 50 lit   |
| 5              |                           | Cooler No 5  | Second Floor | 50 lit   |
| 6              |                           | Cooler No 6  | Second Floor | 50 lit   |
| 7              |                           | Cooler No 7  | Third Floor  | 50 lit   |
| 8              |                           | Cooler No 8  | Third Floor  | 50 lit   |
| 9              | MECH & CIVIL Block        | Cooler No 9  | Ground Floor | 50 lit   |
| 10             |                           | Cooler No 10 | First Floor  | 50 lit   |
| 11             |                           | Cooler No 11 | Second Floor | 50 lit   |
| 12             |                           | Cooler No 12 | Third Floor  | 50 lit   |
| 13             | ECE Block                 | Cooler No 13 | Ground Floor | 50 lit   |
| 14             |                           | Cooler No 14 | First Floor  | 50 lit   |
| 15             |                           | Cooler No 15 | Second Floor | 50 lit   |
| 16             |                           | Cooler No 16 | Third Floor  | 50 lit   |
| 17             | P.G Block                 | Cooler No 17 | First Floor  | 100 lit  |
| 18             |                           | Cooler No 18 | First Floor  | 50 lit   |
| 19             |                           | Cooler No 19 | Third Floor  | 100 lit  |
| 20             |                           | Cooler No 20 | Third Floor  | 50 lit   |
| 21             | MEGA LAB                  | Cooler No 21 | Ground Floor | 50 lit   |
| 22             | EEE BLOCK                 | Cooler No 22 | First Floor  | 50 lit   |
| 23             |                           | Cooler No 23 | First Floor  | 50 lit   |
| 24             |                           | Cooler No 24 | Second Floor | 50 lit   |
| 25             |                           | Cooler No 25 | Second Floor | 50 lit   |
| 26             |                           | Cooler No 26 | Third Floor  | 50 lit   |
| 27             | BOYS HOSTEL 1st Year Side | Cooler No 27 | Ground Floor | 100 lit  |
| 28             | BOYS HOSTEL 2nd Year Side | Cooler No 28 | Ground Floor | 100 lit  |
| 29             |                           | Cooler No 29 | Second Floor | 50 lit   |
| 30             | BOYS HOSTEL 3rd Year Side | Cooler No 30 | Ground Floor | 100 lit  |
| 31             |                           | Cooler No 31 | Second Floor | 50 lit   |
| 32             | Dining Hall               | Cooler No 32 | Ground Floor | 150 lit  |
| 33             |                           | Cooler No 33 | First Floor  | 150 lit  |
| 34             |                           | Cooler No 34 | First Floor  | 150 lit  |
| 35             | Ladies Hostel             | Cooler No 35 | Ground Floor | 100 lit  |
| 36             |                           | Cooler No 36 | First Floor  | 50 lit   |
| 37             |                           | Cooler No 37 | Second Floor | 50 lit   |

*Bleuwhing*

**Dr. B.R.RAMESH BAPU**  
B.E., M.E., M.S (Engg.), Ph.D.  
PRINCIPAL

**PRATHYUSHA ENGINEERING COLLEGE**  
Poonamallee to Thiruvallur High Road,  
Chennai - 602 025.



# WATER ANALYSIS REPORT – 2020



CHEMSOL

**CHEMTECH SYSTEMS**  
Private Limited

## TEST REPORT

|                              |   |   |
|------------------------------|---|---|
| Sample ID No                 | PEC/CTS/112/ 25.11.2020   | Report No: 136/2019-20                      |
| Sample Drawn by              | Chemtech Systems Pvt Ltd  | Report Date : 27.11.2020                    |
| Sample Drawn Date            | 25.11.2020  | Sample1 Qty: 1 liters in Plastic Container  |
| Sample Drawn Date            | 25.11.2020  | Sample 2 Qty: 1 liters in Plastic Container |
| Description of Sample        | RO Plant out let  |   |
| Name And Address of Customer | Prathyusa Engineering College<br>Thiruvallur High Road, Chennai -602025 |   |

## Analysis Results

| S.No | Parameters       | Sample RO water out let | Standards of BIS: 10500-1991 | Standards of BIS: 10500-1991 |
|------|------------------|-------------------------|------------------------------|------------------------------|
|      |                  |                         | AGREEABLE                    | PERMISSABLE                  |
| 1    | Appearance       | CLEAR                   | CLEAR                        | CLEAR                        |
| 2    | Turbidity NTU    | ND                      | 1                            | 5                            |
| 3    | pH @ 25°C        | 7.2                     | 6.5 to 8.5                   | 6.5 to 8.5                   |
| 4    | TDS in PPM       | 92                      | 500                          | 2000                         |
| 5    | Calcium as Ca    | 26                      | 75                           | 200                          |
| 6    | Magnesium        | 12                      | 30                           | 100                          |
| 7    | Total Hardness   | 31                      | 200                          | 600                          |
| 8    | Total Alkalinity | 14                      | 200                          | 600                          |
| 9    | Chlorides        | 8                       | 250                          | 1000                         |
| 10   | Iron             | Nil                     | 0.3                          | No Relaxation                |

---End Report---

For CHEMTECH SYSTEMS PVT LTD

*B. Ramesh Babu*  
Authorized Signatory

*Steering*

**Dr. B.R.RAMESH BABU**  
B.E., M.E., M.S (Engg), Ph.D.  
PRINCIPAL

**PRATHYUSA ENGINEERING COLLEGE**  
Poonamallee to Thiruvallur High Road,  
Chennai - 602 025.

OFFICE : No. 7, Thiruvallur Nagar, I.A.F. Road, Pattaberga, Chennai - 602 022 Ph: 044 - 3185 0341

**Water & Wastewater Treatment Chemical & Equipments**

# WATER ANALYSIS REPORT – 2019



**CHEMSOL**

**CHEMTECH SYSTEMS  
Private Limited**

### TEST REPORT

|                              |   |   |
|------------------------------|---|---|
| Sample ID No                 | PEC/CTS/145/ 06.08.2019   | Report No: 161/2019-20                      |
| Sample Drawn by              | Chemtech Systems Pvt.Ltd  | Report Date : 6.08.2019                     |
| Sample Drawn Date            | 06.08.2019  | Sample 1 Qty: 1 liters in Plastic Container |
| Sample Drawn Date            | -   | Sample 2 Qty: 1 liters in Plastic Container |
| Description of Sample        | Sample – RO Plant out let   |   |
| Name And Address of Customer | Prathyusa Engineering College<br>Thiruvallur High Road, Chennai -602025 |   |

### Analysis Results

| S.No | Parameters       | Sample RO plant out let | Standards of BIS : 10500-1991 | Standards of BIS : 10500-1991 |
|------|------------------|-------------------------|-------------------------------|-------------------------------|
|      |                  |                         | AGREEABLE                     | PERMISSABLE                   |
| 1    | Appearance       | CLEAR                   | CLEAR                         | CLEAR                         |
| 2    | Turbidity NTU    | ND                      | 1                             | 5                             |
| 3    | pH @ 25°C        | 7.6                     | 6.5 to 8.5                    | 6.5 to 8.5                    |
| 4    | TDS In PPM       | 68                      | 500                           | 2000                          |
| 5    | Calcium as Ca    | 18                      | 75                            | 200                           |
| 6    | Magnesium        | 6                       | 30                            | 100                           |
| 7    | Total Hardness   | 20                      | 200                           | 600                           |
| 8    | Total Alkalinity | 10                      | 200                           | 600                           |
| 9    | Chlorides        | 6                       | 250                           | 1000                          |
| 10   | Iron             | Nil                     | 0.3                           | No Relaxation                 |

—End Report—

For CHEMTECH SYSTEMS PVT LTD

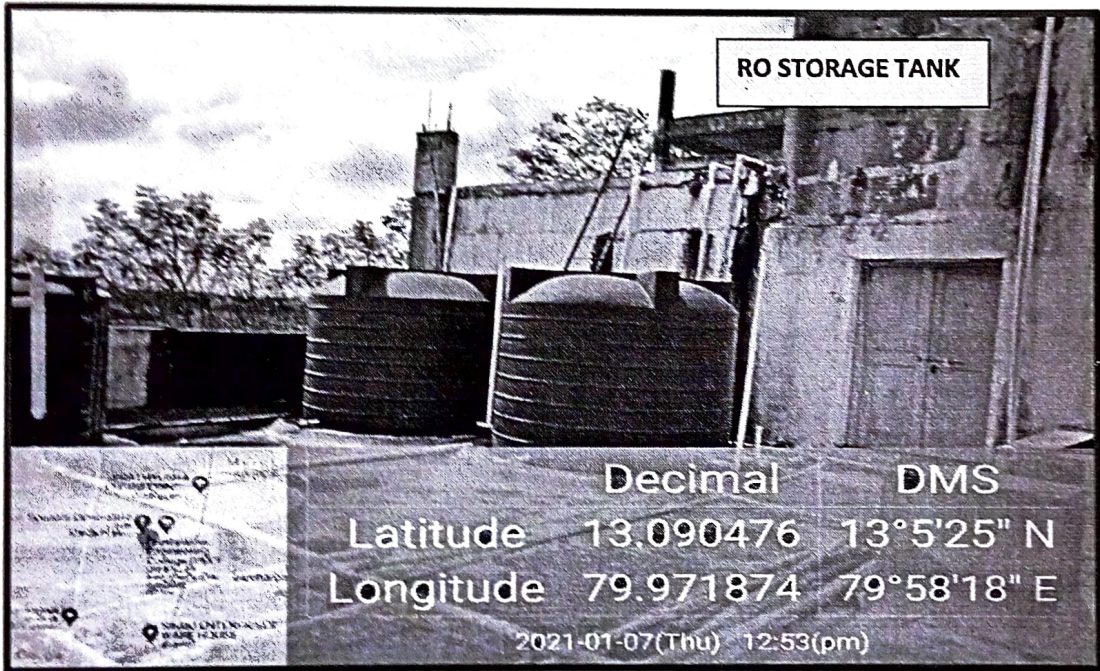
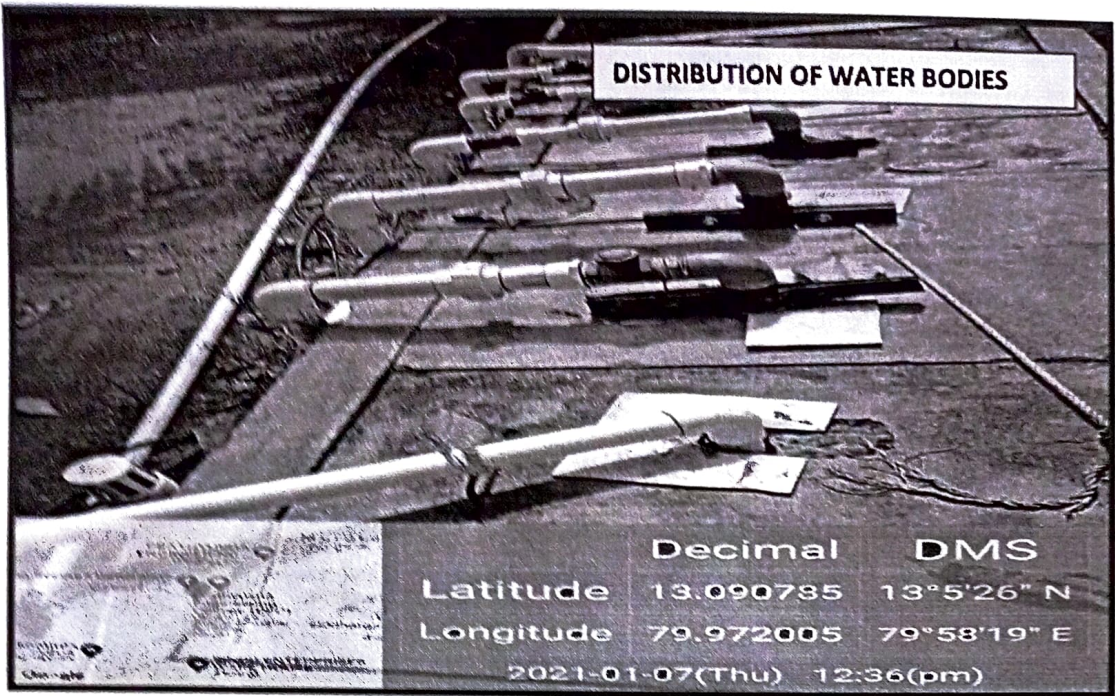
*B. Ramesh Babu*  
Authorized Signatory

**Dr. B.R.RAMESH BABU**  
B.E., M.E., M.S (Engg), Ph.D.  
PRINCIPAL

**PRATHYUSA ENGINEERING COLLEGE**  
Poonamallee to Thiruvallur High Road,  
Chennai - 602 025.

OFFICE : No. 7, Thiruvallur Nagar, I & F Road, Pallabram, Chennai - 600 072. Ph. 844 - 26853145  
**Water & Wastewater Treatment Chemical & Equipments**





*B. Ramesh Babu*  
**PRINCIPAL**

**Dr. B.R.RAMESH BAPU**

B.E., M.E., M.S. (Food) Ph.D.  
 PRINCIPAL

**PRATHYUSHA ENGINEERING COLLEGE**

Poonamallee to Thiruvallur High Road,  
 Chennai - 602 025.