



# GOVERNMENT OF PUDUCHERRY

## *Puducherry Pollution Control Committee*

State of Environment & its Related Issues in Puducherry

## ENVIS HUB NEWSLETTER



### STATUS OF WATER QUALITY IN THE U.T OF PUDUCHERRY FOR THE YEAR 2017

**Volume IX-II**

**April - June, 2018**

Sponsored by  
Ministry of Environment, Forests & Climate Change  
Government of India,  
New Delhi

## Introduction

Water quality monitoring is carried out by Puducherry Pollution Control Committee periodically at various locations with financial assistance from Central Pollution Control Board under National Water Quality Monitoring Programme (NWMP). Monitoring is done on quarterly basis in surface water bodies in Puducherry and Karaikal regions, Annually in Mahe and Yanam regions and during pre and post monsoon in the case of ground water.

### Objectives of Water Quality Monitoring

The water quality monitoring is performed with following main objectives:

- To understand the nature and extent of pollution control and measures required.
- To evaluate the extent of pollution control required and effectiveness of pollution control measures already in existence.
- To assess water quality trends over a period of time.
- To assess assimilative capacity of a water body thereby reducing cost on pollution control.
- To understand the environmental fate of different pollutants.
- To assess the fitness of water for different uses.

### Water Quality Monitoring stations in U.T. of Puducherry region

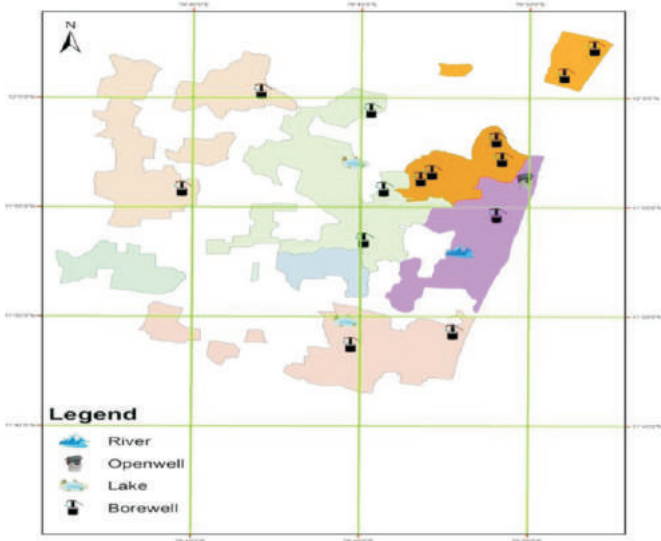
The following five new stations have been included in water quality monitoring network under NWMP during the year 2017 and monitoring initiated.

| Station Code | Location   | Type     | Latitude        | Longitude       | Date of inception |
|--------------|--|----------|-----------------|-----------------|-------------------|
| 3882         | Echankadu, Kirumambakkam                                 | Borewell | 11° 49'17.29" N | 79° 47'46.42" E | 12-09-17          |
| 3883         | Near by Lake, Bahoor                                     | Borewell | 11° 48'42.87" N | 79° 44'44.77" E | 12-09-17          |
| 3884         | Chevelier Sellane Govt. Higher Secondary School, Kalapet | Borewell | 12° 02'16.88" N | 79° 51'56.60" E | 11-09-17          |
| 3885         | Dhanderar Kulam, Sedarapet                               | Borewell | 11° 59'25.5" N  | 79° 45'19.0" E  | 12-09-17          |
| 3886         | Kithpurinatham, Thiruvandarkoil                          | Borewell | 11° 55'49.8" N  | 79° 39'42.1" E  | 12-09-17          |

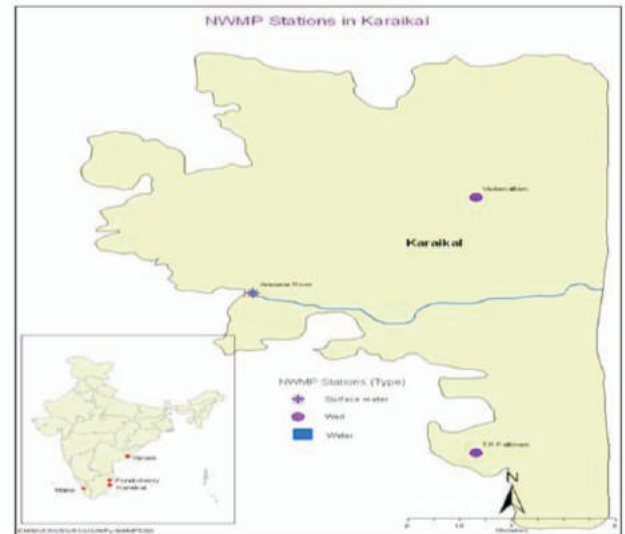
| Station Code      | Location                                       | Type     | Latitude        | Longitude        | Date of inception |
|-------------------|--|----------|-----------------|------------------|-------------------|
| <b>Puducherry</b> |  |          |                 |                  |                   |
| 1396              | Ousteri  | Lake     | 11° 57'01.9" N  | 79° 44' 47.7" E  | 11-01-90          |
| 1397              | Krishna Nagar                                  | Borewell | 11° 57'10.88" N | 79° 49' 12.68" E | 11-01-90          |
| 1398              | Thengaithittu                                  | Borewell | 11° 54'37.24" N | 79° 49' 03.10" E | 11-01-90          |
| 1453              | Muthirappalayam                                | Borewell | 11° 56'17.26" N | 79° 46' 47.73" E | 01-01-92          |
| 1454              | Pondicherry University, Kalapet                | Borewell | 12°01'01.43" N  | 79° 51'02.74" E  | 01-01-92          |
| 1688              | Katterikuppam                                  | Borewell | 12° 00'17.03" N | 79° 42' 02.92" E | 15-05-02          |
| 1686              | Bahour   | Lake     | 11° 49'47.8" N  | 79° 44' 35.3" E  | 15-05-02          |
| 1687              | Chetty Koil, Mission Street                    | Openwell | 11° 56'12.9" N  | 79° 49' 51.7" E  | 15-05-02          |
| 1689              | Chunnambar                                     | River    | 11° 52'59.9" N  | 79° 47' 57.0" E  | 15-05-02          |
| 2009              | Kurumbapet                                     | Borewell | 11° 55'49.81" N | 79° 45' 41.50" E | 16-05-06          |
| 2010              | Mettupalayam                                   | Borewell | 11° 56'35.64" N | 79° 47' 07.64" E | 15-05-06          |
| 2011              | Uruvaiyar                                      | Borewell | 11°53'29.45" N  | 79° 45'06.95" E  | 15-05-06          |
| 2012              | Maruthi school, Karuvadikuppam                 | Borewell | 11° 58'04.79" N | 79° 49'02.03" E  | 15-05-06          |
| <b>Karaikal</b>   |  |          |                 |                  |                   |
| 1685              | Arasalar                                       | River    | 10° 54' 562" N  | 79 ° 49' 066" E  | 15-05-02          |
| 2013              | T.R.Pattinam                                   | Borewell | 10° 50' 485" N  | 79 ° 49' 918" E  | 16-05-06          |
| 2014              | Vadamattam                                     | Borewell | 11° 56' 773" N  | 79 ° 49' 771" E  | 16-05-06          |
| <b>Yanam</b>      |  |          |                 |                  |                   |
| 2442              | Gowtami – Godavari river Near balayogi Bridge  | River    | 16° 72' 597" N  | 82 ° 20' 216" E  | 07.01.2009        |
| 2443              | Gowtami –Godavari Near Adavipolam              | River    | 16° 71' 519" N  | 82 ° 26' 158" E  | 07.01.2009        |
| 2444              | Gowtami – Godavari Coringa River ( Tidal Lock) | River    | 16° 73' 000" N  | 82 ° 21' 747" E  | 07.01.2009        |
| <b>Mahe</b>       |  |          |                 |                  |                   |
| 2445              | Mahe river                                     | River    | 11° 42' 275" N  | 75 ° 32' 594" E  | 07.01.2009        |
| 2446              | Pallur   | Openwell | 11° 43' 960" N  | 75 ° 32' 460" E  | 07.01.2009        |
| 2447              | Panthakkal                                     | Openwell | 11° 45' 123" N  | 75 ° 32' 284" E  | 07.01.2009        |

## Location Map of Monitoring stations in the U.T of Puducherry:

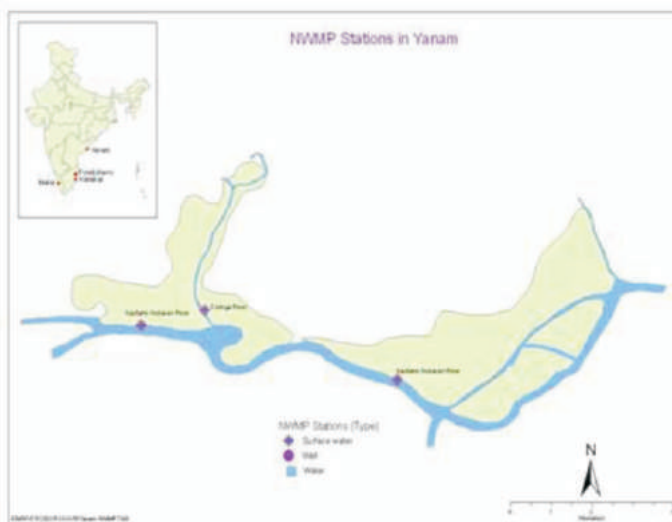
### Puducherry



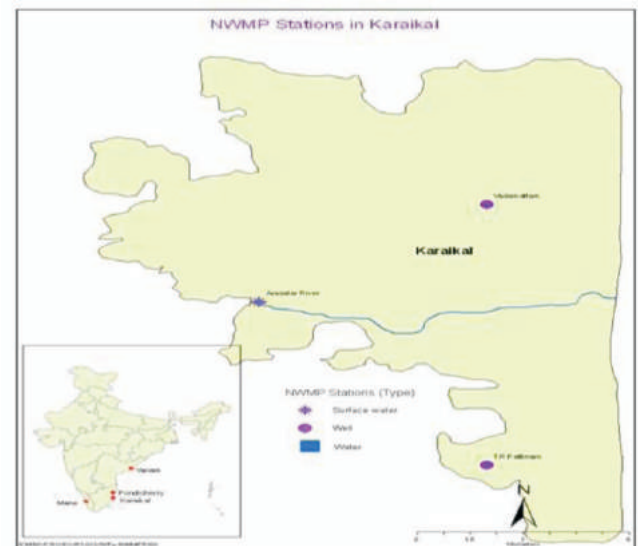
### Karaikal



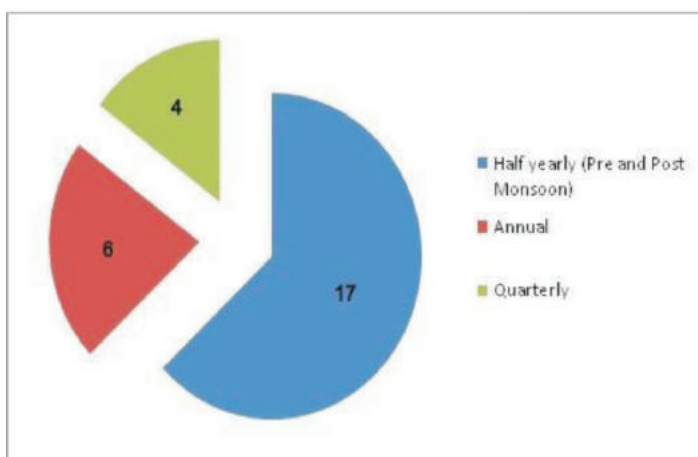
### Yanam



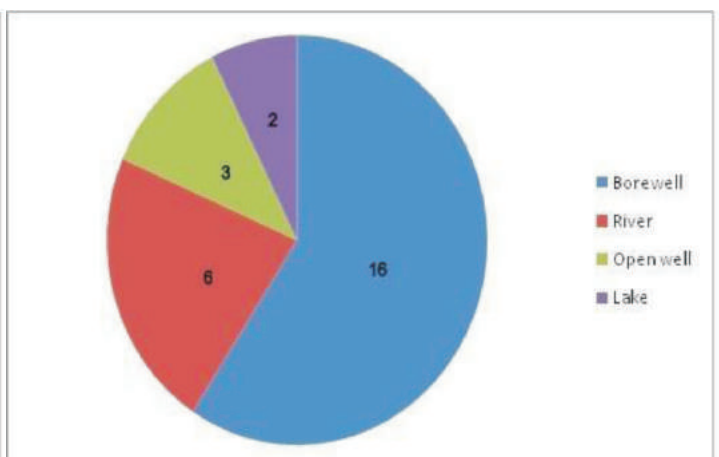
### Mahe



## Water Body Wise Number of Stations



## Frequency Wise Water Quality Monitoring (in numbers)





## Status of Water Quality in Surface Water

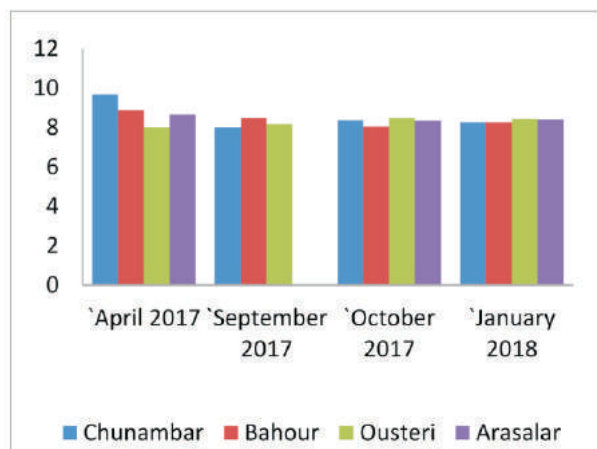


Fig 1.0 pH

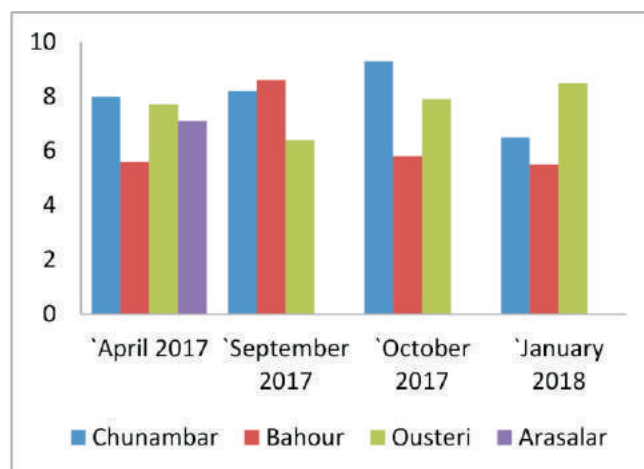


Fig 1.1 DO (mg/l)

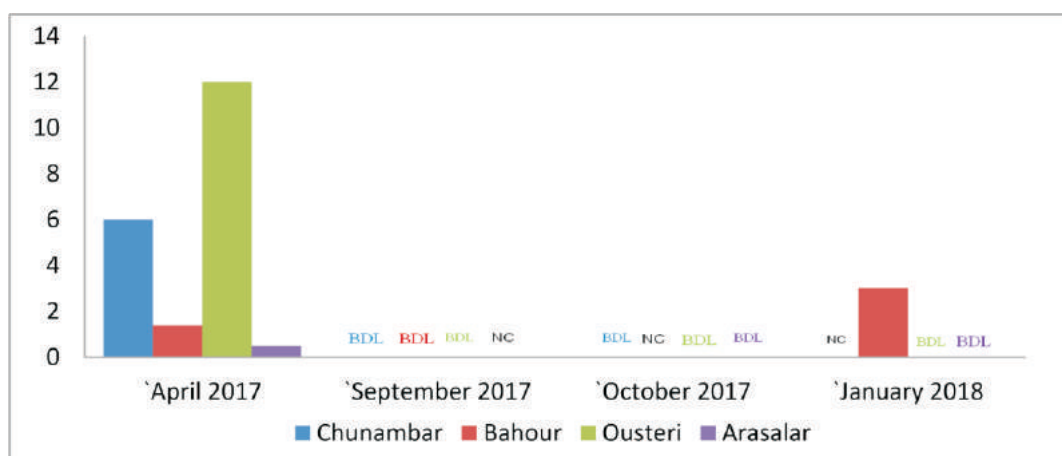


Fig 1.2 BOD (mg/l)

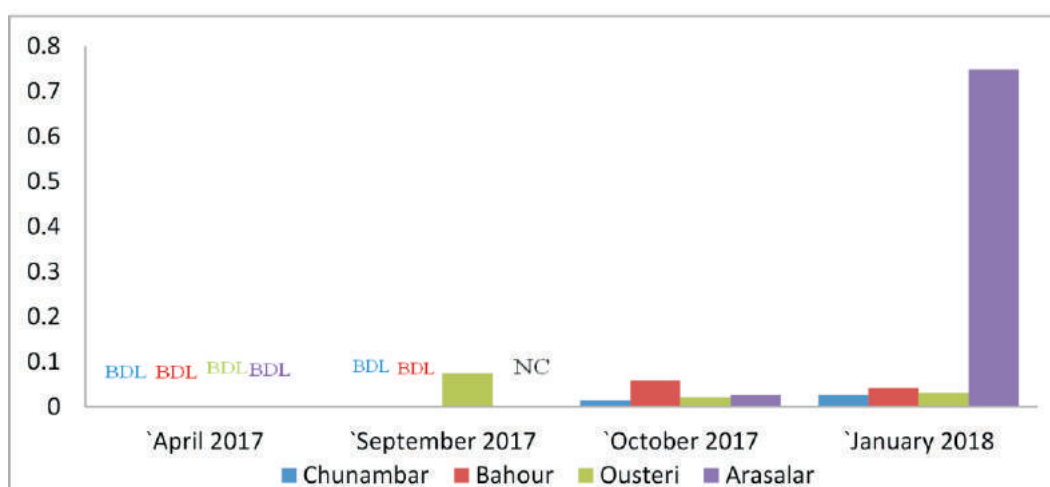


Fig 1.3 Ammonia-N (mg/l)

## Status of Water Quality in Borewell

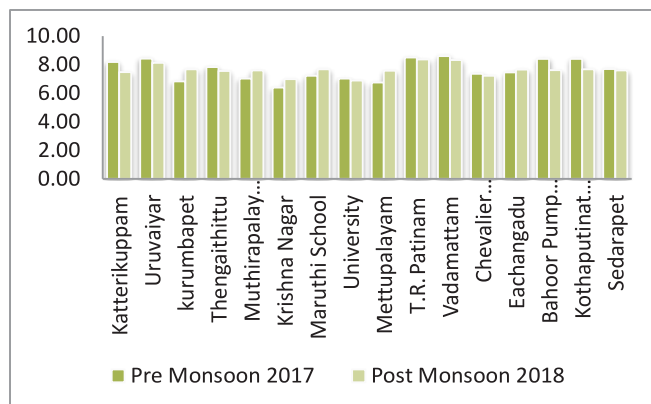


Fig 2.0 pH

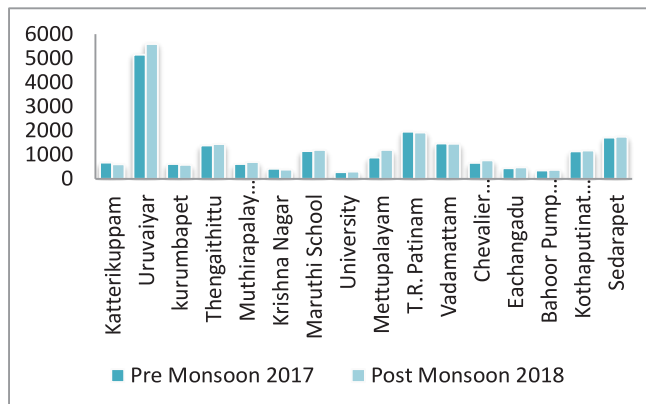


Fig 2.1 Conductivity(mg/l)

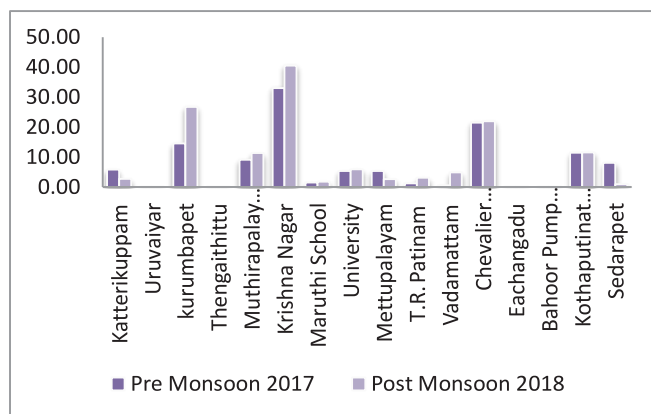


Fig 2.2 Nitrate(mg/l)

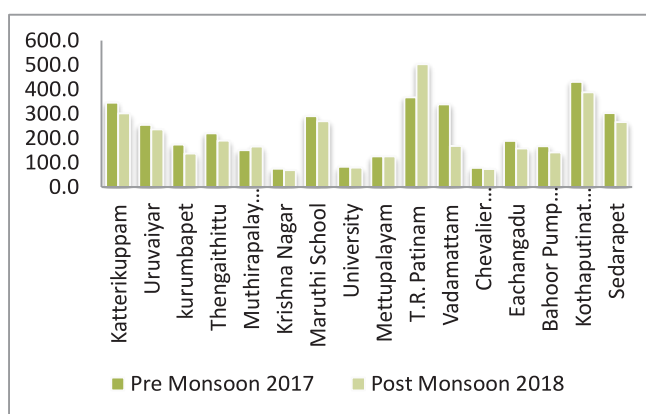


Fig 2.3 Alkalinity (mg/l)

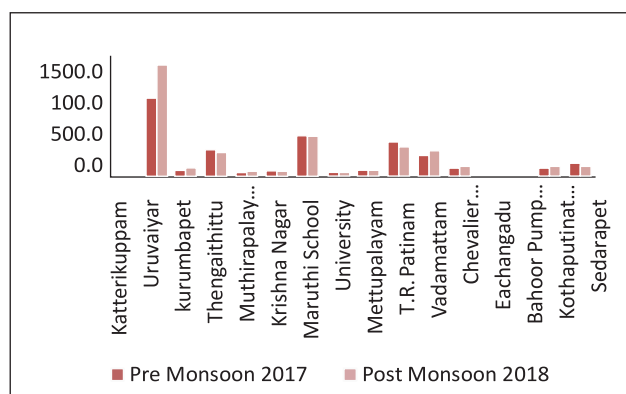


Fig 2.4 Chloride (mg/l)

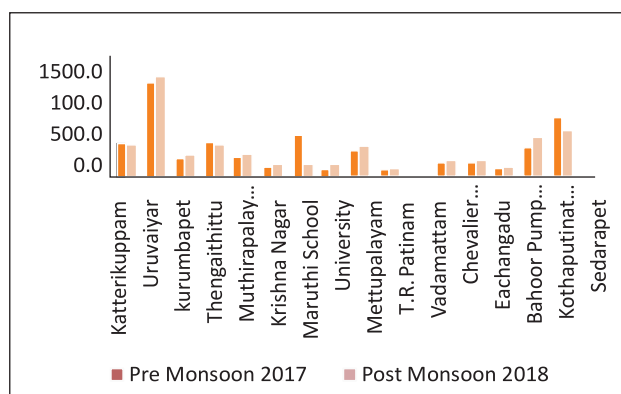


Fig 2.5 Total Hardness (mg/l)

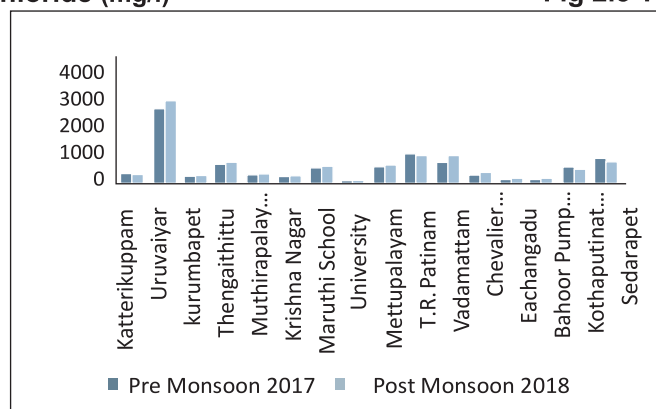


Fig 2.6 TDS(mg/l)

## Surface Water Quality in Yanam Region - 2017

| Sl.No | Parameters                                     | Adavipulam | Tidel Lock | Balayogi River |
|-------|--|------------|------------|----------------|
| 1     | Date of Sampling                               | 14.11.2017 | 14.11.2017 | 14.11.2017     |
| 2     | Time   | 3.35 PM    | 3.45 PM    | 4.25 PM        |
| 3     | Temperature°C                                  | 30         | 30         | 30             |
| 4     | DO mg/l  | 8.5        | 7.1        | 9.4            |
| 5     | pH   | 8.29       | 8.42       | 8.48           |
| 6     | Conductivity (µmho/cm)                         | 10160.00   | 6960.00    | 6190           |
| 7     | BOD (mg/l)                                     | BDL        | BDL        | BDL            |
| 8     | Nitrate - N (mg/l)                             | 0.0781     | 0.1266     | 0.082          |
| 9     | Nitrate (mg/l)                                 | 0.3458     | 0.5606     | 0.3631         |
| 10    | Nitrite - N (mg/l)                             | 0.0068     | 0.0206     | 0.0081         |
| 11    | Turbidity NTU                                  | 1.1        | 6.8        | 1.4            |
| 12    | Bi- Carbonate as CaCO <sub>3</sub> (mg/l)      | 111.3      | 128.1      | 111.3          |
| 13    | Carbonate as CaCO <sub>3</sub> (mg/l)          | 12.6       | 25.2       | 23.1           |
| 14    | Chloride (mg/l)                                | 294        | 199        | 181            |
| 15    | COD (mg/l)                                     | 3.9        | 7.9        | 3.9            |
| 16    | Total Hardness as CaCO <sub>3</sub> (mg/l)     | 951        | 670        | 607            |
| 17    | Calcium Hardness as CaCO <sub>3</sub> (mg/l)   | 852        | 600        | 528            |
| 18    | Calcium as Ca <sup>++</sup> (mg/l)             | 341        | 240        | 211            |
| 19    | Magnesium Hardness as CaCO <sub>3</sub> (mg/l) | 99         | 70         | 79             |
| 20    | Magnesium as Mg <sup>++</sup> (mg/l)           | 24.1       | 17         | 19.2           |
| 21    | Sulphate (mg/l)                                | 161.5      | 123.8      | 118.2          |
| 22    | Orthophosphate (mg/l)                          | 0.009      | 0.004      | 0.0128         |
| 23    | TDS (mg/l)                                     | 6190.2     | 4135       | 3609           |
| 24    | TSS (mg/l)                                     | 16.2       | 23.0       | 19.1           |
| 25    | FDS (mg/l)                                     | 4028.4     | 2478.0     | 1403.2         |
| 26    | Ammonia- N (mg/l)                              | BDL        | BDL        | BDL            |
| 27    | Hexavalent Chromium Cr <sup>+6</sup> (mg/l)    | BDL        | BDL        | BDL            |

## Mahe region- 2017

| Sl.No. | Parameters                                   | Pandakkal  | Pallur     | Mahe river |
|--------|--|------------|------------|------------|
| 1      | Date of Sampling                             | 04.07.2017 | 04.07.2017 | 04.07.2017 |
| 2      | Time   | 8.40 AM    | 9.30 AM    | 10.30 AM   |
| 3      | Temperature° C                               | 28         | 28         | 28         |
| 4      | DO mg/l                                      | -          | -          | 6.6        |
| 5      | pH   | 7          | 6.99       | 7.14       |
| 6      | Conductivity µmho/cm                         | 120        | 195        | 324        |
| 7      | COD mg/l                                     | Nil        | Nil        | 12         |
| 8      | Nitrate - N - mg/l                           | 2.20       | 7.15       | 0.447      |
| 9      | Nitrate mg/l                                 | 9.74       | 31.66      | 1.98       |
| 10     | Nitrite mg/l                                 | BDL        | BDL        | BDL        |
| 11     | BOD mg/l                                     | BDL        | BDL        | BDL        |
| 12     | Bi -Carbonate as CaCO <sub>3</sub> mg/l      | 90         | 30         | 30         |
| 13     | Chloride mg/l                                | 24         | 16         | 80         |
| 14     | Ammonia N mg/l                               | -          | -          | BDL        |
| 15     | Total Hardness as CaCO <sub>3</sub> mg/l     | 90         | 50         | 42         |
| 16     | Calcium hardness as CaCO <sub>3</sub> mg/l   | 68         | 30         | 32         |
| 17     | Calcium as Ca++ (mg/l)                       | 27.2       | 12         | 12.8       |
| 18     | Magnesium hardness as CaCO <sub>3</sub> mg/l | 22         | 20         | 10         |
| 19     | Magnesium as Mg++(mg/l)                      | 5.4        | 4.9        | 2.4        |
| 20     | Sulphate mg/l                                | 1.9        | 5.627      | 8.314      |
| 21     | TDS mg/l                                     | 94         | 144        | 202        |
| 22     | FDS mg/l                                     | 32.0       | 60.0       | 140.0      |
| 23     | TSS mg/l                                     | 6.0        | 9.0        | 7.0        |
| 24     | Orthophosphate mg/l                          | 0.009      | 0.012      | 0.076      |
| 25     | Chromium as (Cr) mg/l                        | 0.0036     | 0.0001     | 0.0239     |
| 26     | Arsenic mg/l                                 | 0.0189     | 0.0189     | 0.0159     |
| 27     | Cadmium mg/l                                 | BDL        | BDL        | BDL        |
| 28     | Copper mg/l                                  | BDL        | BDL        | BDL        |
| 29     | Lead mg/l                                    | BDL        | 0.0941     | 0.0229     |
| 30     | Nickel mg/l                                  | 0.0761     | 0.0723     | 0.0216     |
| 31     | Zinc mg/l                                    | 0.0655     | 0.0138     | 0.1672     |
| 32     | Iron mg/l                                    | 0.0541     | 0.0369     | 0.6493     |

### **Status of Ground Water Quality in Puducherry & Karaikal**

In Uruvaiyar the concentration of Chloride, Total Hardness and Total Dissolved Solids (TDS) are higher than the permissible limit( refer graphs). Heavy metals and pesticides in most of the locations are Below Detectable Limit (BDL) during pre and post monsoon except iron which is slightly higher than the permissible limit in some of the locations.

### **Status of Surface Water Quality in Puducherry & Karaikal**

Surface water bodies viz., Bahour lake, Ousteri Lake, Chunnambar River and Arasalar river Water Quality meet the primary water quality criteria of CPCB for class 'D' (the parameter pH, DO & Free Ammonia as N meet the criteria) during all the quarters of April 2017, July 2017, October 2017 and March 2018 except pH which is slightly high in Chunnambar River, Bahour Lake and Arasalar river and BOD in Chunnambar River and Ousteri Lake during April Quarter 2017.

### **Status of Surface Water Quality in Yanam & Mahe**

Surface water bodies in Yanam and Mahe regions meet the Primary Water Quality Criteria of CPCB for class 'D'.

### **Status of open well in Mahe Region**

The concentrations of all the parameters are within the permissible limit of drinking water standards in the Pandakkal and Pallur at Mahe region.

### **Conclusion**

The concentration of Total Hardness, Chloride and Total Dissolved Solids higher than the permissible limit in Uruvaiyar may be due to geological condition of that area.

During April Quarter 2017, slightly high pH and BOD in surface water bodies may be due to water stagnation and heavy algae biomass. The river is non perennial.



## Monitoring during Festival Occasion

To assess the water quality due to idol immersion in the sea on the occasion of Vinayaka Chaturthi festival, Coastal Water Quality Monitoring is done at three stages viz., Pre immersion, during immersion and post immersion.

### STATUS OF SEA WATER QUALITY ON THE OCCASION OF VINAYAGAR CHATURTHI FESTIVAL 2017- KARAIKAL

| S.No | Parameter             | Pre Immersion   |                 | During Immersion |                 | Post Immersion  |                 |
|------|-----------------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|
|      |                       | Sample - I      | Sample - II     | Sample-III       | Sample-IV       | Sample-I        | Sample-II       |
|      |                       | Reference Point | Immersion Point | Reference Point  | Immersion Point | Reference Point | Immersion Point |
| 1    | Dt. of Sampling       | 21.08.2017      | 21.08.2017      | 28.08.2017       | 28.08.2017      | 01.09.2017      | 01.09.2017      |
| 2    | Time                  | 09.30 A.M       | 09.30 A.M       | 09.00 A.M        | 09.30 A.M       | 09.30 A.M       | 09.40 A.M       |
| 3    | Temperature °C        | 29              | 29              | 29.5             | 29.5            | 30              | 30              |
| 4    | pH                    | 8.54            | 8.56            | 8.48             | 8.57            | 8.46            | 8.50            |
| 5    | Conductivity ms/cm    | 50.0            | 50.1            | 48.3             | 48.9            | 49.2            | 49.6            |
| 6    | COD mg/l              | Nil             | Nil             | Nil              | Nil             | Nil             | Nil             |
| 7    | BOD mg/l              | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 8    | TS mg/l               | 36,377          | 36,754          | 35,486           | 35,506          | 35,683          | 36,199          |
| 11   | Arsenic (as As) mg/l  | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 12   | Cadmium (as Cd) mg/l  | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 13   | Copper (as Cu) mg/l   | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 14   | Lead (as Pb) mg/l     | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 15   | Chromium (as Cr) mg/l | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 16   | Nickel (as Ni) mg/l   | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 17   | Zinc (as Zn) mg/l     | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 18   | Iron (as Fe) mg/l     | 0.1859          | 0.2349          | 0.3157           | 0.4438          | 0.1926          | 0.2539          |
| 19   | Dissolved Oxygen mg/l | 6.8             | 7.2             | 6.8              | 6.8             | 6.3             | 6.3             |

## STATUS OF SEA WATER QUALITY ON THE OCCASION OF VINAYAGAR CHATURTHI FESTIVAL 2017- PUDUCHERRY

| S.No | Parameter             | Pre Immersion   |                 | During Immersion |                 | Post Immersion  |                 |
|------|-----------------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|
|      |                       | Sample - I      | Sample - II     | Sample-III       | Sample-IV       | Sample-I        | Sample-II       |
|      |                       | Reference Point | Immersion Point | Reference Point  | Immersion Point | Reference Point | Immersion Point |
| 1    | Dt. of Sampling       | 21.08.2017      | 21.08.2017      | 29.08.2017       | 29.08.2017      | 31.08.2017      | 31.08.2017      |
| 2    | Time                  | 11.15 A.M       | 12.00 Noon      | 05.45 A.M        | 10.15 A.M       | 11.45 A.M       | 11.10 A.M       |
| 3    | Temperature °C        | 30              | 31              | 30               | 30              | 30              | 30              |
| 4    | pH                    | 8.53            | 8.56            | 8.48             | 8.53            | 8.4             | 8.46            |
| 5    | Conductivity ms/cm    | 49.53           | 49.5            | 48               | 48.2            | 48              | 48.2            |
| 6    | COD mg/l              | Nil             | Nil             | Nil              | Nil             | Nil             | Nil             |
| 7    | BOD mg/l              | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 8    | TS mg/l               | 39,092.0        | 39,925.0        | 35,376           | 35,821          | 34,696          | 35,179          |
| 11   | Arsenic (as As) mg/l  | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 12   | Cadmium (as Cd) mg/l  | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 13   | Copper (as Cu) mg/l   | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 14   | Lead (as Pb) mg/l     | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 15   | Chromium (as Cr) mg/l | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 16   | Nickel (as Ni) mg/l   | BDL             | BDL             | BDL              | BDL             | BDL             | BDL             |
| 17   | Zinc (as Zn) mg/l     | 0.1085          | 0.3809          | 0.1882           | 0.0405          | 0.0761          | 0.0247          |
| 18   | Iron (as Fe) mg/l     | 0.255           | 0.3756          | 0.1832           | 0.5474          | 0.4586          | 0.4205          |
| 19   | Dissolved Oxygen mg/l | 6.6             | 7               | 6.8              | 6.8             | 6.1             | 6.1             |

## Environment Events

### World Environment Day 2018 Celebration

The Department of Science, Technology and Environment, Puducherry Pollution Control Committee along with Puducherry Envis Hub, Government of Puducherry has celebrated World Environment Day 2018 at Gandhi Thidal, Beach Road, Puducherry. Hon'ble Chief Minister of Puducherry, Hon'ble Minister for Science, Technology & Environment and Member of Legislative Assembly of Raj Bhavan Constituency participated in the Programs.

Circulars were issued to schools, colleges and other institutions to celebrate the World Environment Day, 2018 by creating awareness on safe usage of plastic and its disposal.

#### Beach Cleaning activities:

A Beach cleaning activities were carried out by Karaikal Administration, officials of Department of Science, Technology and Environment, Puducherry Pollution Control Committee along with Ministry of Environment, Forest and Climate Change, New Delhi officials and Envis Hub Coordinator in the Karaikal region, U.T. of Puducherry. NSS Volunteers, School & College Students and public participated in the campaign and many plastic and other littered solid waste materials were collected from the beach which was later handed over to Karaikal Municipality.

| Date       | Name of the place       |
|------------|-------------------------|
| 03.06.2018 | Karukalacheri, Karaikal |
| 04.06.2018 | Karaikal Beach          |
| 05.06.2018 | Karaikal Beach          |





## Pledge:

Pledge in Tamil language was taken by the Officials and Staff of DST&E and its Autonomous Bodies.



## Coastal Clean up at Puducherry:

A coastal clean-up was carried out in the coastal stretches of Puducherry at Gandhi Statue. Hon'ble Chief Minister V. Narayanasamy and Hon'ble Minister (Environment) inaugurated the cleaning campaign. Nearly 1000 school children, 200 NCC cadets and NSS volunteers participated in the campaign.







### Awareness Rally on Beat Plastic Pollution:

Awareness rally was organized by Department of Science, Technology and Environment, Puducherry Pollution Control Committee along with Puducherry Envis Hub, Government of Puducherry during World Environment Day “2018” event organized on 05.06.2018 at Gandhi Thidal. The Event was inaugurated by Hon'ble Minister for Science, Technology and Environment.







## Debate on “Who is responsible for Pollution?–Men or Women” at Gandhi Thidal.





## World Day to Combat Desertification and Drought

Puducherry Envis Hub celebrated World Day to Combat Desertification and Drought at Thiru Vi Ka Government High School, Arumbarthapuram, Puducherry. Mrs. Nithiya, Programme Officer from ENVIS and Balaji, Junior Research Fellow, Puducherry Climate Change Cell participated in the programme. Head master of the school gave the welcome address. Mr. Balaji delivered the inaugural lecture on World Day to Combat Desertification and Drought. The theme lecture on **“Land has true value – Invest in it,”** was delivered by Mrs. Nithiya (Programme Officer) in Power point presentations and Video clippings. A Drawing competition was also organized by Puducherry Envis Hub.



## **Puucherry Environment News: Planetarium to host summer camp for children**



Minister for Science and Technology M. Kandasamy, students and parents on the occasion of prize distribution function for the drawing competition organised by the Puducherry Council for Science and Technology and ENVIS, Puducherry Pollution Control Committee.

The Minister distributed prizes to the winners of the drawing competition conducted on the theme 'Climate Change Special Train' visit to Puducherry on June 15 and 16 and for International Ozone Day Celebration held on September 16, 2017.

**Source Link:** <https://www.thehindu.com/news/cities/puducherry/planetarium-to-host-summer-camp-for-children/article23385288.ece>

## **Beach nourishment project by July**



The beach nourishment project is likely to be completed by July this year, according to scientists of the National Institute of Ocean Technology (NIOT).

The announcement came after Minister for Port M. Kandasamy met the scientists from NIOT during the inspection of the project site.

**Source Link:** <https://www.thehindu.com/news/cities/puducherry/beach-nourishment-project-by-july/article23919623.ece>

## **Lt. Governor Kiran Bedi seeks waste management action plan from local bodies, June, 2018**

Lt. Governor Kiran Bedi on Saturday sought a concrete action plan on waste management from local bodies as part of a broader effort towards holistic rural development and creation of smart villages. Ms. Bedi, who convened a meeting with commune panchayat commissioners at the Raj Nivas, asked the Commune Commissioners to identify lands for establishing decentralised recycling dumpyard. In order to meet the recurring cost for source segregation of waste, the Commissioners were asked out to carry out a proper study of their budget and look out for avenues for augmenting their revenue. The Commune Commissioners were also asked to look for alternative use of idle assets.

The Director of Local Administration and Project Director, District Rural Development Agency, would work in coordination for finalising the effective use of assigned funds and help put in place a waste management mechanism for collection and disposal of segregated waste. Ms. Bedi said that at the next convergence meet on July 14, each Commune Commissioner will give a composite picture of the budget of his commune, a village plan for solid waste management along with re-distribution of personnel for effective delivery of services and resource mobilisation.

She also assured the local body chiefs of government support for strengthening the functioning of commune panchayats to achieve holistic rural development. Rudra Gowd, project director, DRDA, gave an overview of liquid waste management. The Director of Local Administration, G. Malarkannan, shared the experience of challenge faced in dousing the fire that kept emanating from the dump at Bahour situated next to INOX factory that was manufacturing liquid oxygen for around 80 hospitals meant for patients admitted in ICUs. He stressed the necessity of decentralised dumps in rural areas.

Source link: <https://www.nyoooz.com/news/puducherry/1139951/bedi-seeks-waste-management-action-plan-from-local-bodies/>

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# Puducherry Environment Newspaper Clippings:

**THE HINDU**

PUDUCHERRY

**'Birds are indicators of a healthy and thriving environment'**



**S. Prasad**  
REPORTER, MAY 15, 2018 08:37 AM  
UPDATED: MAY 15, 2018 08:37 AM

**Experts stress on need to create awareness of birds among students and public**

A project is on to document various species of birds and create awareness on their importance in the eco system, and the need to raise public awareness.

The presence of certain birds indicate that the environment is healthy and thriving, ornithologists say.

Anjan Kori, the State bird of Puducherry is a resident bird on the campus. In addition, birds like Grey Francolin, White-breasted Kingfisher, Common Myna Red vented Bulbul are also residents. In addition, the Orange Throated Barbet, Indian Hoopoe are migratory visitors to Puducherry.

Recently, while addressing the World Academic Bird Day hosted by the Students' Council of the Rajiv Gandhi Institute of Veterinary Education and Research (RIVER) here, Prof. S. Ramkumar, Dean, RIVER, emphasised the need to create awareness on the importance of birds among the students and the public.

He said that Puducherry had a great potential to offer to the tourists, bird watchers and students.

**RIVER campus opens**

RIVER will be happy to open its campus at specific times for bird watchers and nature enthusiasts and will be able to spare the guidance of experts on this. The institute campus has more than 65 species which were documented by a study led by Prof. D. Sreekumar and team over a period of 10 years. The study was also published in Zoo Print.

The campus with its preserved rich greenery is a preferred home for a variety of birds. Nature lovers enjoy birdwatching in this campus. The rehabilitation work, initiated by the Government, taken up in water tanks and lakes recently has helped in bringing back the birds to their environment, Mr. Ramkumar said.

The Omandur Lake located close to the campus provides a pristine habitat to many water birds including herons, egrets, jacana and water hen besides migratory birds like Spot-billed Pelicans, Painted Storks and Flamingoes, he added.


Ramkumar, Project Co-ordinator SPCA, Kodikallur, and Anbaradon, Education Programme Co-ordinator, Wildlife Nature and Conservation Trust (WNCT), emphasised the role played by the birds like their link to the food chain at the top and bottom.

Birds play an important role in the food chain vital for the existence of flora and fauna. Endangering of birds will be harmful to the ecosystem affecting humans, animals and plants. They also play a significant role as 'indicator species' of health of a particular environment, he said.

**Two groups clash over expansion of pharmaceutical unit in Puducherry**

*The meeting saw locals opposing the idea of an expansion citing environmental concerns and water pollution in the area.*

CHENNAI, MAY 8, 2018, UPDATED: MAY 8, 2018 23:08 IST



The mob started pelting stones which led to one cop fracturing his leg in the melee.

**HIGHLIGHTS**

- Meeting to discuss expansion was organised by pollution committee
- One group said expansion would create employment opportunities
- After tensions rose, district collector postponed meeting for a later date

**A** massive protest broke out at Kalapet area in Pondicherry on Tuesday during a public hearing for the expansion of Strides Shasun Limited, a pharmaceutical unit in Pondicherry.

The meeting, which was organised by the pollution committee under district collector Satyendra Singh Dursawat's chairmanship, saw locals opposing the idea of an expansion citing environmental concerns and water pollution in the area.

However, there was another group who insisted on the expansion stating it would provide employment opportunities.

After the meeting started to get tense and chaotic, the collector postponed the meeting to June 7 and left the location. But the two groups' fight intensified and police had to resort to lathi charge to disperse the crowd.

The mob started pelting stones leading to one cop fracturing his leg in the melee. Police then fired 10 rounds of tear gas shells in the air to disperse the crowd. Over 100 police officials have been deployed to maintain law and order.

Apart from the injured police official who is admitted at the Pondicherry Institute of Medical Sciences (PIMS), ten others have suffered minor injuries.


Shasun at present has over 12,000 employees and has been under the radar based on complaints from people living near the manufacturing unit stating that a lot of

PUDUCHERRY

**Kiran Bedi on a mission to make Puducherry water rich**

SPECIAL CORRESPONDENT

PUDUCHERRY, JUNE 15, 2018 08:54 IST  
UPDATED: JUNE 15, 2018 08:54 IST



**Says there will be no overdrawing of groundwater beyond the permitted level**

The State Ground Water Authority (SGWA) will evolve systems to prescribe threshold limits of groundwater and issue advisory to major consumers on the limit upto which water could be drawn. SGWA will also ensure that there is no overdrawing of groundwater beyond the permitted level, Lieutenant Governor Kiran Bedi said.

According to a release from Raj Nivas, as part of the field visit on "Mission Puducherry Water Rich", the 14th weekend visit was made on Sunday to the site of major water consuming institution and an industry. Ms. Bedi travelled in a JRTC bus accompanied by officers from the Public Works Department, SGWA and the Department of Science, Technology and Environment.

A chart on groundwater table prepared by the PWD revealed that the groundwater table at Kalapet and Seddipet had dropped the most. The PWD and the SGWA were asked to guide the Pondicherry University and the Pondicherry Engineering College in meeting better water harvesting structures to capture rainwater.

Ms. Bedi said that the visit to an industry - MRF - and an institution - Mahatma Gandhi Medical College and Research Institution - revealed stark comparison on water management. Mahatma Gandhi Medical College and Research Institution did not have sufficient water harvesting structures to capture rainwater. The institution did not have proper systems in place, which would indicate water table monitoring practices.

On the other hand, MRF had a proper system in place. The company had a comprehensive water management system which depicted the water table data, water balance sheet, water conservation activity plan, major conservation activities undertaken during the year.

The company also had a plan of water generation and conservation, zero balance system, use of drip irrigation of recycle water and use of sewerage treatment for industrial processing by further treatment that had led to a substantial reduction in per capita consumption of water for every type manufactured by them.

The visiting team comprising of Chief Engineer of PWD and SGWA will promote the good practices followed by MRF to all other industries and make it an integral part of the terms and conditions of licensing water.

It was also proposed to celebrate Van Mahotsav on July 7 by bringing together major water consuming industries/institutions and leading farmers to share and learn the best practices to make Puducherry water rich.

**Business Standard**

**Expansion of pharmaceutical unit; HC notice to Puducherry govt**

Press Trust of India | Chennai | May 04, 2018 Last Updated at 21:40 IST

The Madras High Court has issued notice to the Puducherry government on a PIL, seeking direction to halt the proposed expansion of a pharmaceutical unit, which was allegedly causing grave pollution, and stop a public hearing on the matter.

The division bench, comprising justices V. Ramakrishnan and N. Sankarapandey, before which the PIL, filed by Ashok Anand came up yesterday, issued notice to the government, including its Pollution Control Committee which had issued notice for a public hearing on the proposed expansion on May 8.

The petitioner alleged that the pharmaceutical unit manufacturing drugs was a 'Red category' large industry and that as per Central Pollution Control Board classification, it was already causing grave pollution.

He alleged that the unit, which did not have the mandatory environmental clearances, was continuing its operations in violation of a ban by the government.

The unit was operating from the year 1990, consuming several lakh liters of water per day and it has now gone up to 12 lakh liters per day.

As one representing the people of the area, he had raised the issue in the assembly, pointing out that the public in the area was put to grave risk because of water being polluted through release of industrial effluent by the unit, he said.

The unit had applied for expansion to the Environment Ministry, following which the petitioner wrote to them, requesting that it not be given the nod.

Anand said he was shocked to read the public issue notice in newspapers by the Puducherry Pollution Control Committee, calling for a public hearing on the expansion.

He said the committee, which has to be the guardian of the environment and was expected to render the Union territory free from pollution, has openly issued the notice, and sought a direction to the authorities to stop the proposed expansion.

He also sought an interim injunction to restrain the committee from conducting the public hearing on May 8.



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