GOVERNMENT OF PUDUCHERRY

PUDUCHERRY POLLUTION CONTROL COMMITTEE

ENVIS HUB NEWSLETTER

STATUS OF WATER QUALITY IN THE U.T OF PUDUCHERRY FOR THE YEAR 2019

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Photo by P. VIPIN BABU

Status of Water Quality in the U.T.of Puducherry

Department of Science, Technology & Environment / Puducherry Pollution Control Committee has been monitoring Water quality periodically at 31 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. The periodicity is annually in Mahe and Yanam regions and during pre and post monsoon in the case of ground water.

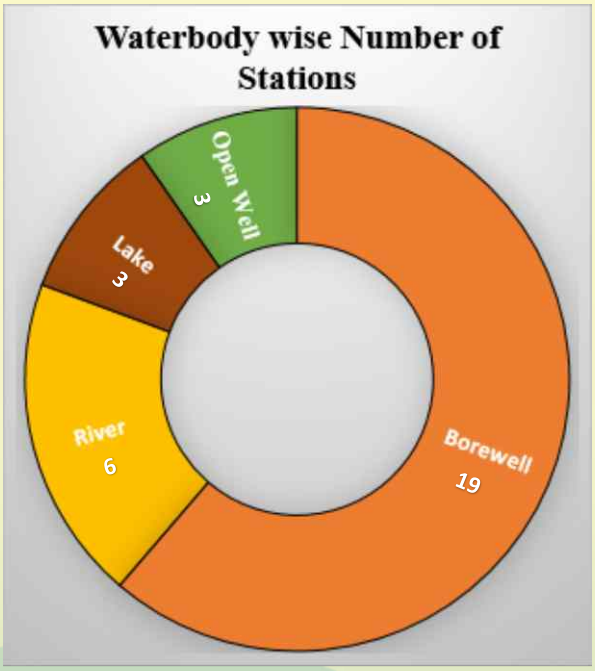
Objectives of Water Quality Monitoring

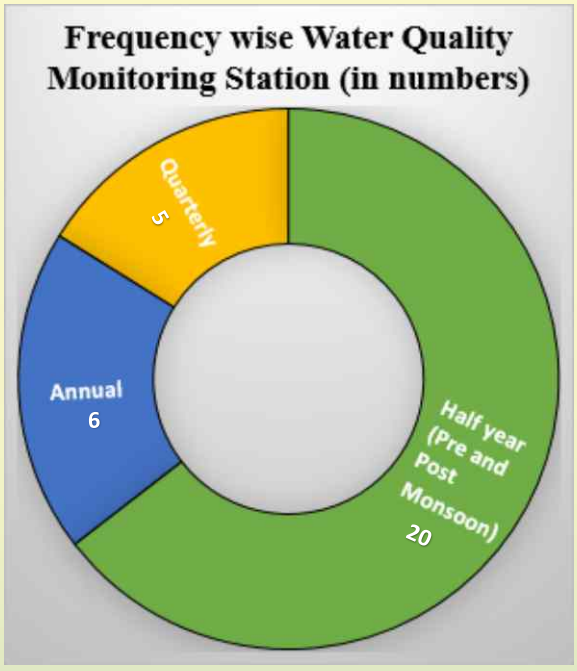
The water quality monitoring is performed with the following main objectives:

- 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.

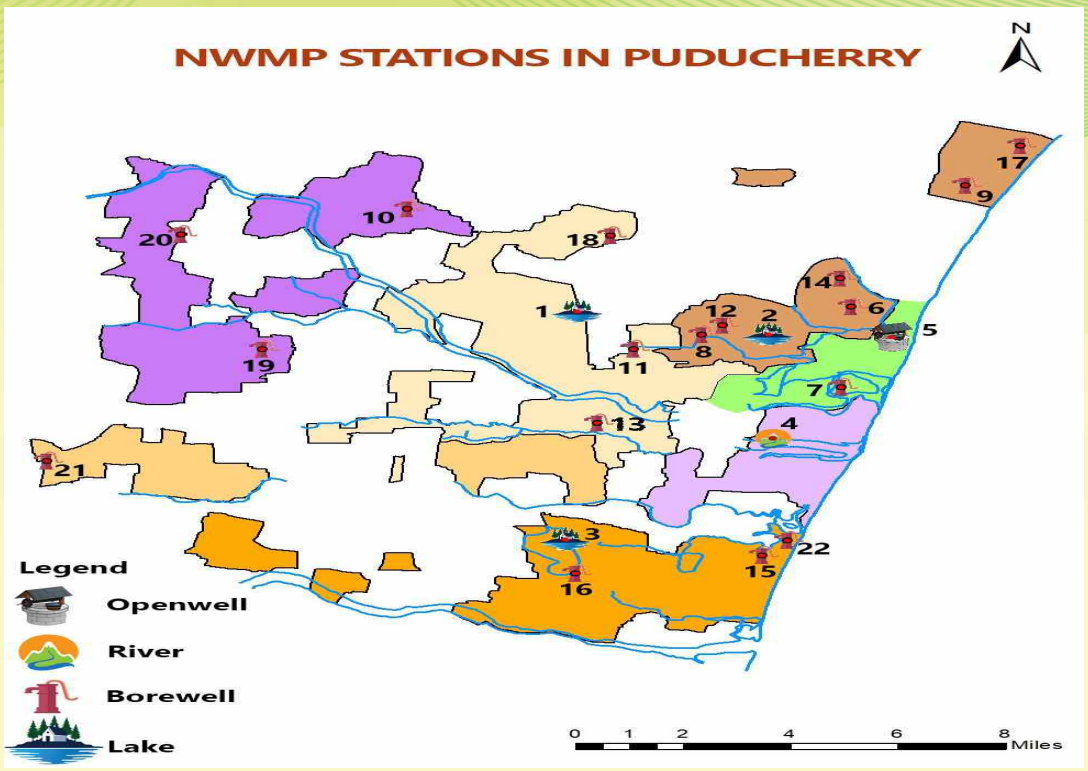
Newly Included Water Quality Monitoring Stations in U.T. of Puducherry

The three new stations (Thirukkanur, Madukarai and Panithittu) have been included in water quality monitoring network under NWMP during the year 2019. In total the U. T of Puducherry has 31 Stations under NWMP.

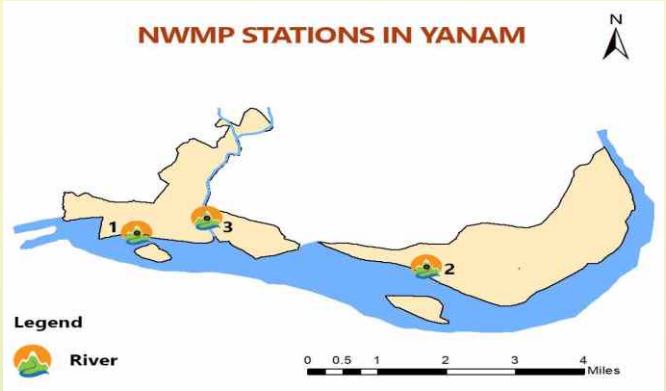




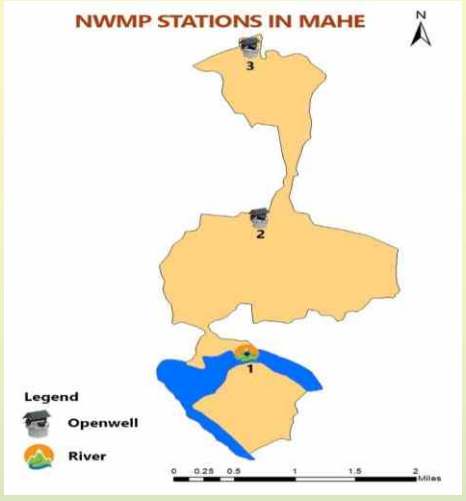
LOCATION MAP OF WATER QUALITY MONITORING STATIONS



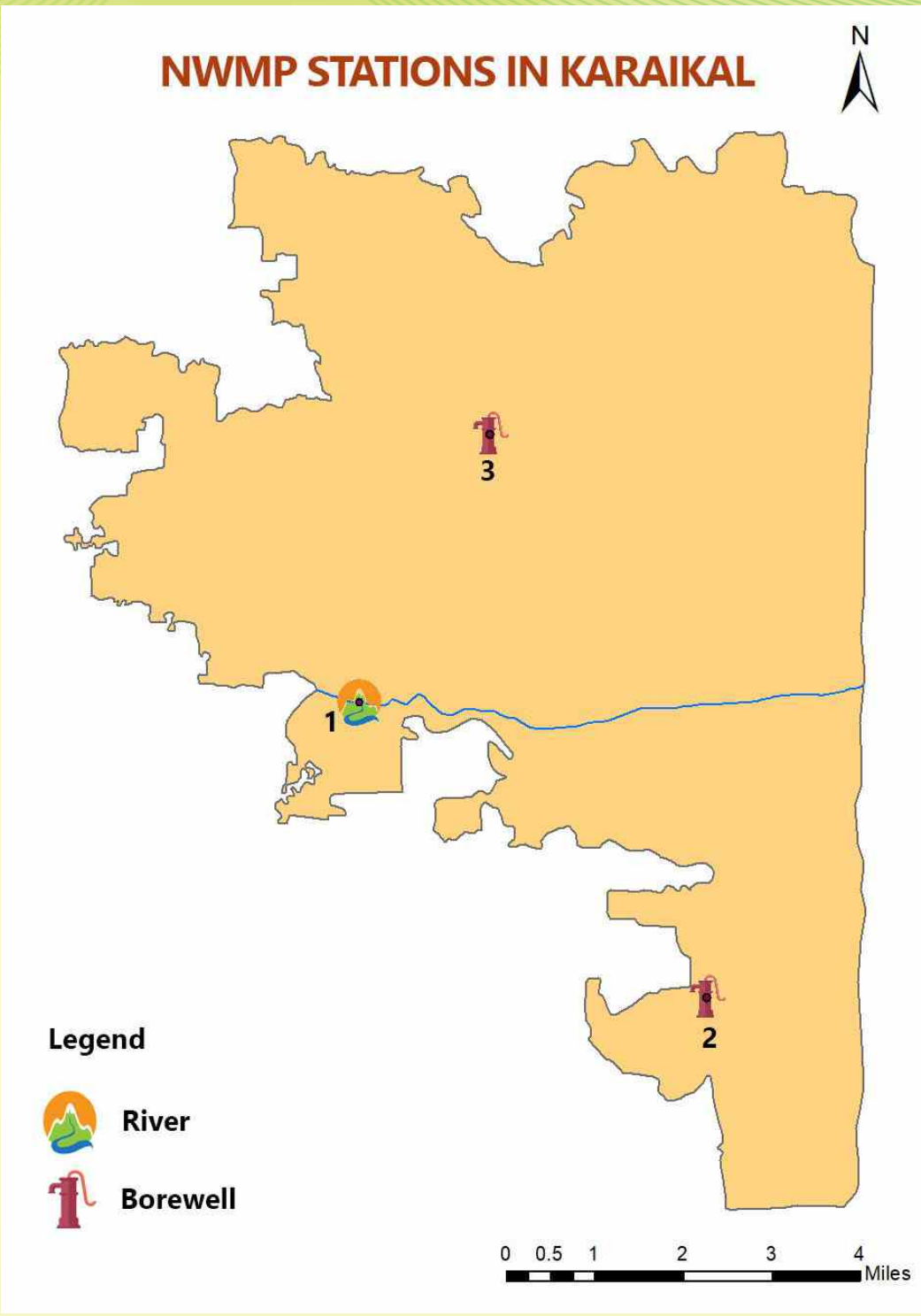
Sl.No	Location	Sl.No	Location
1	Ousteri Lake	12	Mettupalayam
2	Kanagan Lake	13	Uruvaiyar
3	Bahour Lake	14	Maruthi School
4	Chunnambar River	15	Echankadu
5	ChettyKoil, Mission Street	16	Near by Lake, Bahour
6	Krishna Nagar	17	Chevalier Sellane Government Higher secondary school, Kalapet
7	Thengaithittu	18	DhanderarKulam, Sedarapet
8	Muthirappalayam	19	Kothapurinatham,Thiruvandarkoil
9	Pondicherry University	20	Thirukkanur
10	Katterikuppam	21	Madukarai
11	Kurumbapet	22	Panithittu



Sl.No	Location
1	Gowtami - Godavari River Near Balayogi Bridge
2	Gowtami - Godavari River Near Adavipolam
3	Coringa River (Tidal Lock)



Sl.No	Location
1	Mahe River
2	Pallur
3	Panthakkal



Sl.No	Location
1	Arasalar
2	T.R Pattinam
3	Vadamattan

Status of Water Quality in Surface Water (2019) – Puducherry and Karaikal

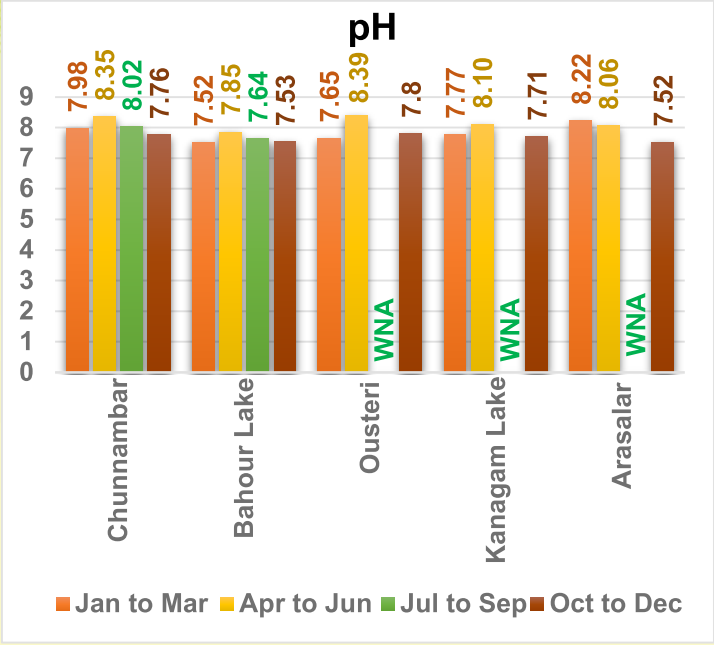


Fig. 1: pH

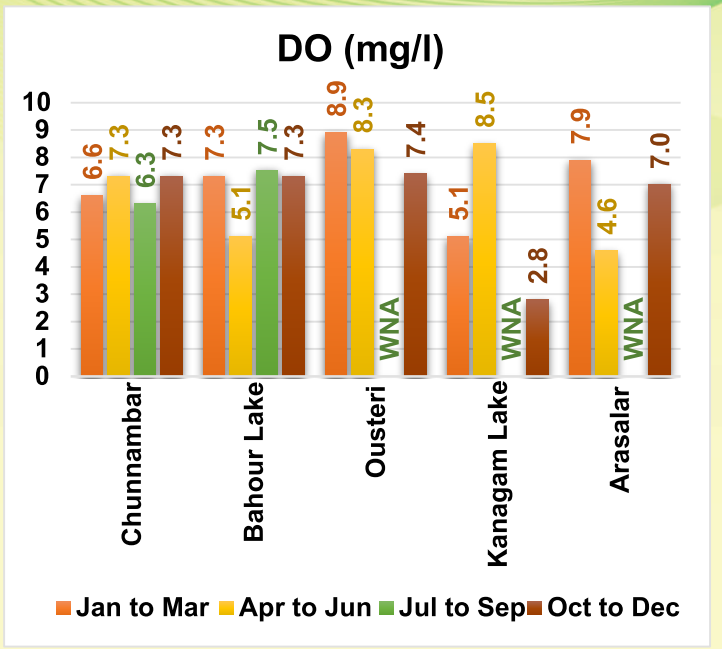


Fig. 2 : DO (mg/l)

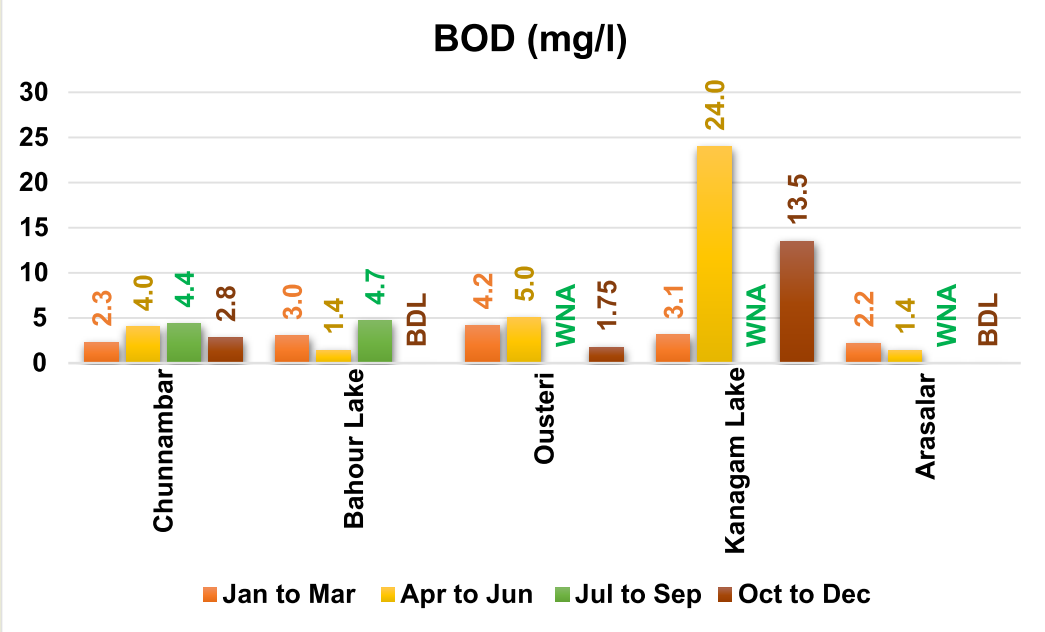


Fig. 3 : BOD (mg/l)

Note:

- BDL – Below Detection Limit
- WNA – Water not available for sampling in Ousteri, Kanaganeri and Arasalar during July quarter.
- As per the primary water quality criteria for bathing water of class B, pH should be 6.5 to 8.5; DO 5mg/l or more; BOD 3mg/l or less.

Status of Water Quality in Borewell – Puducherry and Karaikal

Comparative Study of Post and Pre Monsoon of 2019

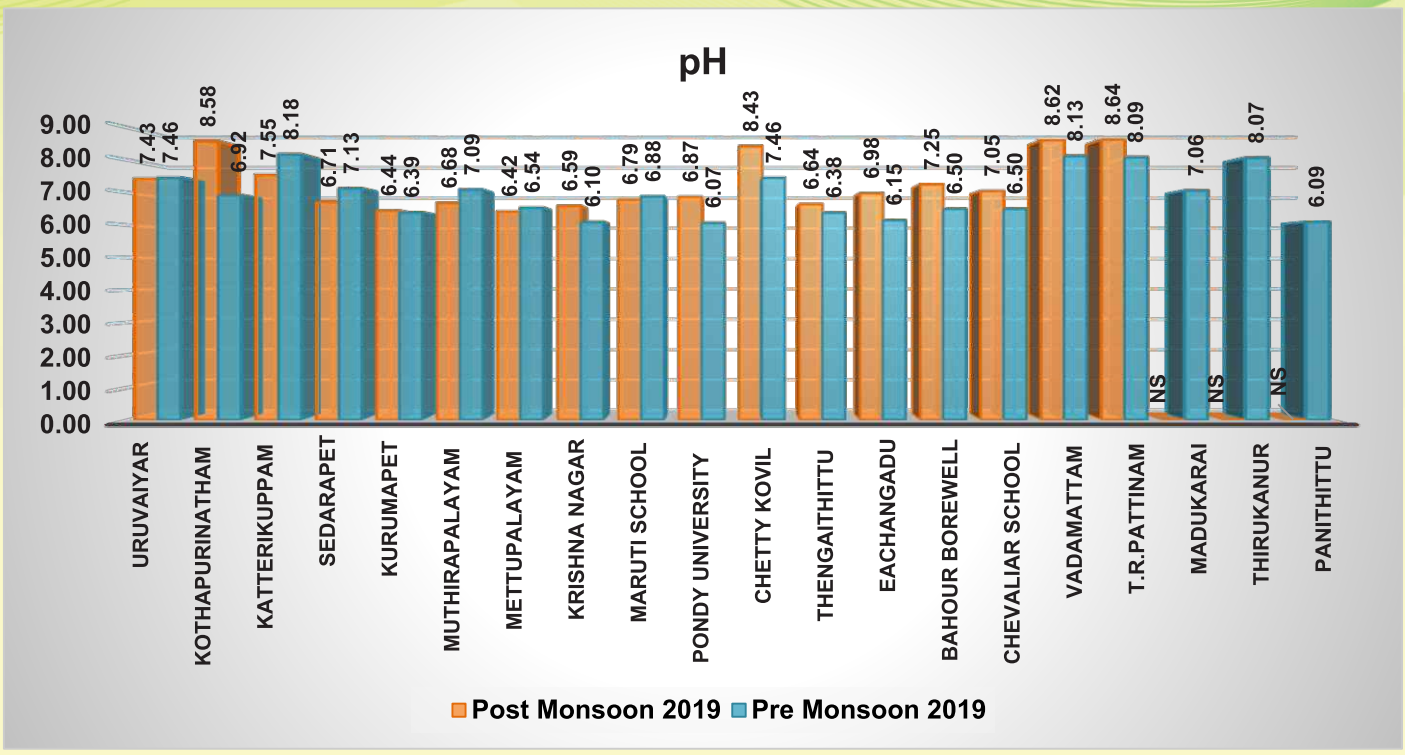


Fig 4 pH

Note: Permissible Limit - 6.5 to 8.5

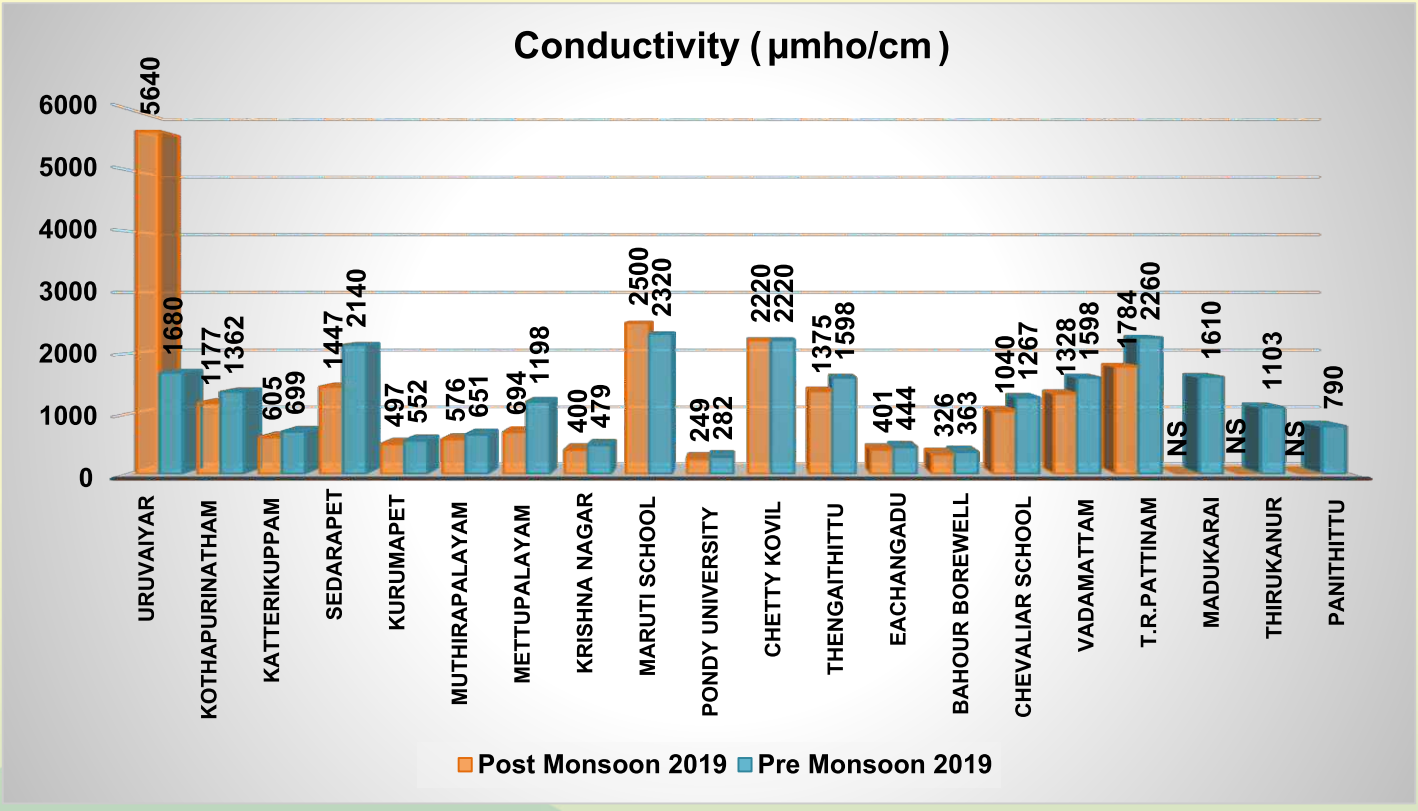


Fig 5 Conductivity (µmho/cm)

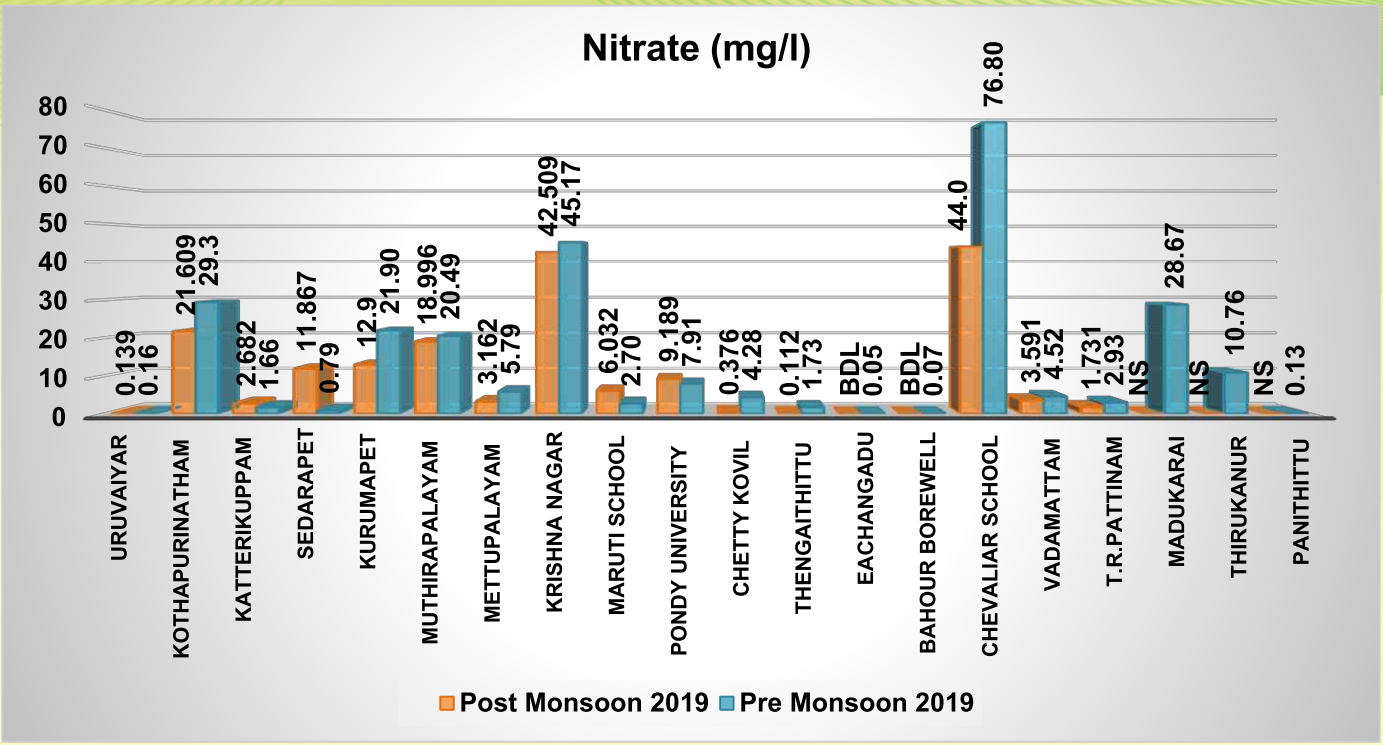


Fig 6 Nitrate (mg/l)

Note: Permissible Limit– 45(mg/l) **BDL – Below Detection Limit**

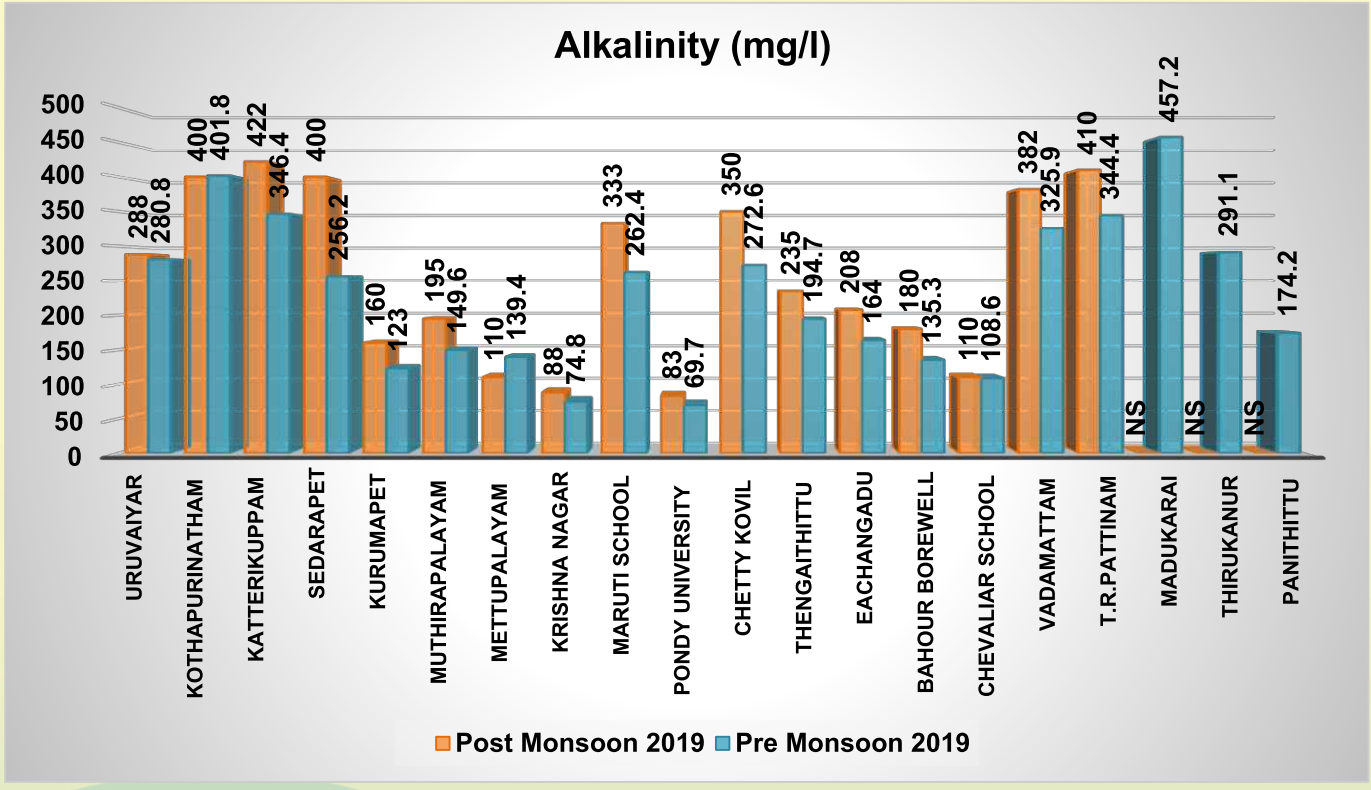


Fig 7 Alkalinity (mg/l)

Note: Permissible Limit – 600 (mg/l)

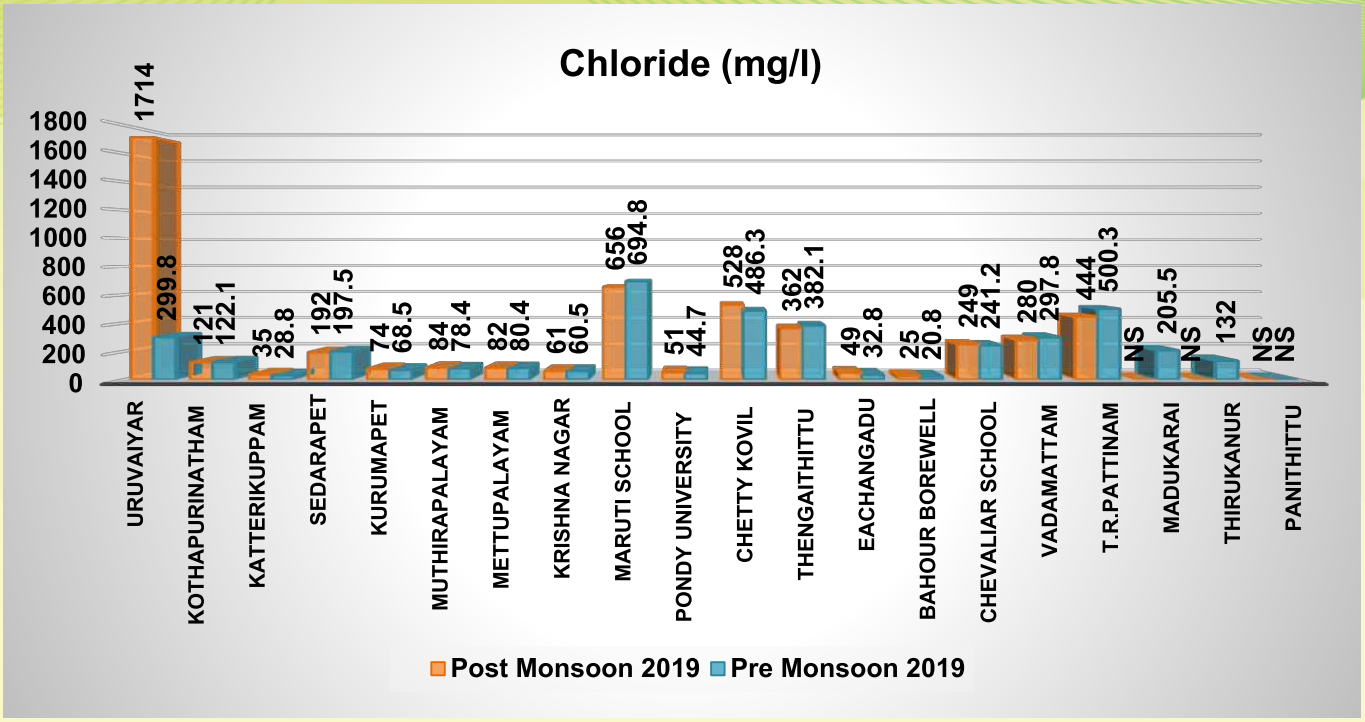


Fig 8 Chloride (mg/l)

Note: Permissible Limit– 1000 (mg/l)

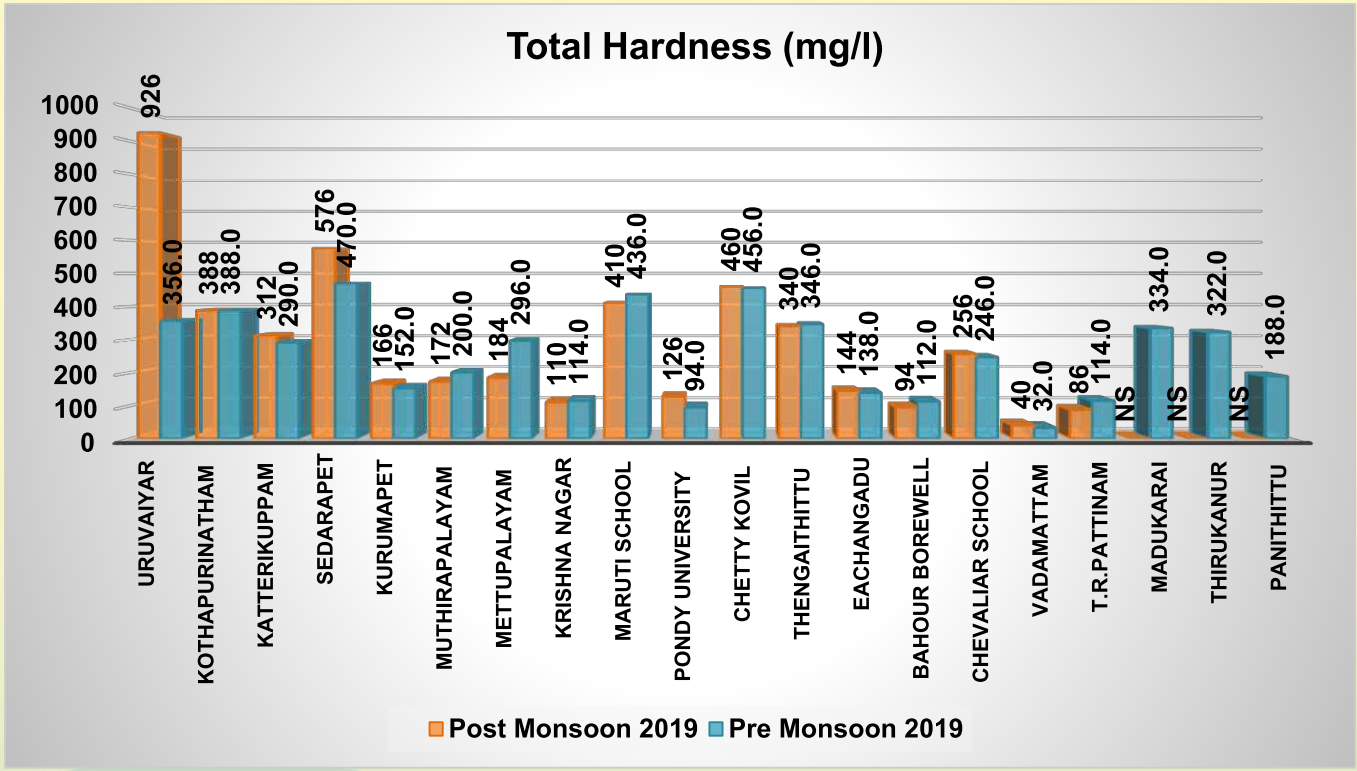


Fig 9 Total Hardness (mg/l)

Note: Permissible Limit– 600 (mg/l)

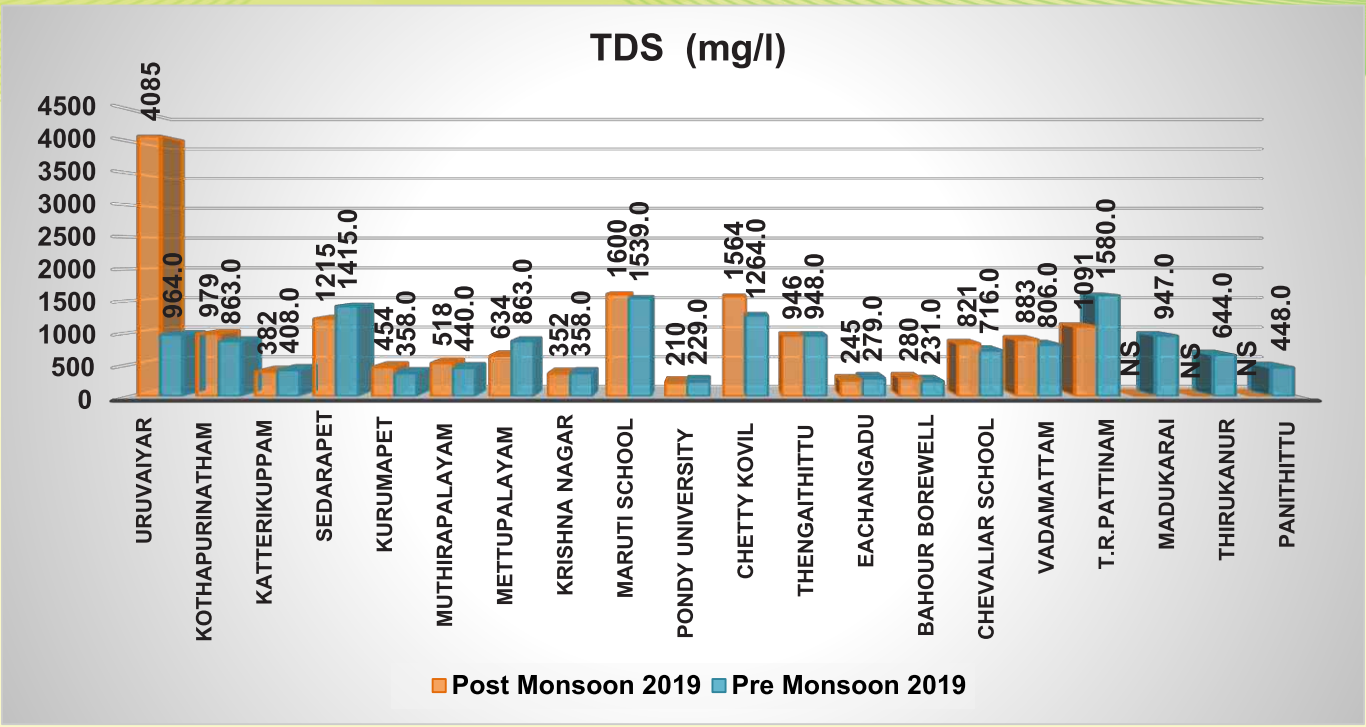


Fig 10 TDS (mg/l)

Note: Permissible Limit – 2000 (mg/l) **BDL – Below Detection Limit**

NS – Madukarai, Thirukanur and Panithittu are new stations. Water sampling was initiated during Pre Monsoon only.

Pesticides viz., Alpha BHC µg/L, Beta BHC µg/L, Gamma BHC µg/L, OP DDT µg/L, PP DDT µg/L, PP DDE µg/L, PP DDD µg/L, Alpha Endosulphan µg/L, Beta Endosulphan µg/L, Dieldrin µg/L, Carbaryl (Carbamate) µg/L, 2,4-D µg/L, Aldrin µg/L, Malathion µg/L, Methyl Parathion µg/L, Chloropyriphos µg/L, Isoproturon µg/L, Alachlor µg/L, Atrazine µg/L, Monochrotophos µg/L, Ethion µg/L, Phorate µg/L, and trace metals viz., Copper mg/L, Nickel mg/L, Cadmium mg/L, Lead mg/L, Total Chromium mg/L, Iron mg/L, Zinc mg/L, Arsenic mg/L, Mercury mg/L are Below Detectable Limit in most of the locations. Except in Thengaithiitu and Eachangadu the concentration of iron are (1.07 mg/l) and (5.1 mg/l), which is above the permissible limit (0.3 mg/l).

Surface Water Quality in Yanam Region 2019

Sl.No	Parameters	Gowtami - Godavari River Near Adavipolam	Coringa River (Tidal Lock)	Gowtami - Godavari River Near Balayogi Bridge
1	Temperature °C	26.5	26.5	27
2	DOmg/l	6.6	6.6	7
3	pH	7.51	7.68	7.67
4	Conductivity µmho/cm	12940	7190	9110
5	BOD mg/l	0.1	0.2	0.2
6	Nitrate - N mg/l	0.33	0.36	0.33
7	Nitrate mg/l	1.46	1.6	1.44
8	Nitrite - N mg/l	0.006	0.007	0.008
9	Turbidity NTU	4.2	7	3.8
10	Bi- Carbonate as$CaCO_3$ mg/l	121.5	111.7	117.6
11	Carbonate as $CaCO_3$ mg/l	NIL	NIL	NIL
12	Chloride mg/l	4208.8	2175.6	2764.7
13	COD mg/l	20	20	20
14	Total Hardness mg/l	1152	824	964
15	Calcium Hardness mg/l	684	464	578
16	Calcium as Ca++ mg/l	273.6	185.6	231.2
17	Magnesium Hardness mg/l	468	360	386
18	Magnesium as Mg++ mg/l	113.7	87.5	93.8
19	Sulphate mg/l	496	453	307
20	Orthophosphate mg/l	0.02	0.03	0.02
21	TDS mg/l	7888	4245	5493
22	TSS mg/l	32.0	14.0	12.0
23	FDS/TFS mg/l	6634	3429	4515
24	Ammonia - N mg/l	BDL	BDL	BDL
25	Sodium mg/l	2586.0	1132.4	1660.0
26	Potassium mg/l	83.9	44.4	59.2
27	Hexavalent Chromium mg/l	BDL	BDL	BDL
28	% Sodium	81.7	73.6	77.6
29	SAR	33.0	17.1	23.2
30	P/R Ratio	7.0	6.0	2.0
31	Arsenic mg/l	0.014	0.0072	0.0061
32	Cadmium mg/l	BDL	BDL	BDL
33	Copper mg/l	0.02	0.015	0.034
34	Lead mg/l	BDL	BDL	0.0094
35	Total Chromium mg/l	BDL	BDL	BDL
36	Mercury mg/l	BDL	BDL	BDL
37	Nickel mg/l	BDL	BDL	0.052
38	Zinc mg/l	BDL	BDL	0.532
39	Iron mg/l	0.374	0.496	0.310

Water Quality in Mahe Region 2019

Sl.No.	Parameters	Pallur (Open Well)	Pandakkal (Open Well)	Mahe River
1	Temperature °C	28	28.5	29
2	pH	6.31	6.80	7.4
3	Conductivity µmho/cm	174.3	82.2	2940.00
4	DO mg/l	-	-	6.3
5	BOD mg/l	BDL	BDL	BDL
6	Nitrate – N mg/l	0.37	0.69	0.24
7	Nitrate mg/l	1.6	3.0	1.00
8	Nitrite – N mg/l	0.001	0.009	0.0
9	Turbidity NTU	0.4	17.4	18.6
10	Bi- Carbonate as $CaCO_3$mg/l	10.6	25.5	38.2
11	Carbonate as $CaCO_3$ mg/l	NIL	NIL	NIL
12	Chloride mg/l	27.7	10.6	893.3
13	COD mg/l	NIL	NIL	NIL
14	Total Hardness mg/l	28.0	18.0	298
15	Calcium Hardness mg/l	22.0	18.0	74.0
16	Calcium as Ca++ mg/l	8.8	7.2	29.6
17	Magnesium Hardness mg/l	6	0	224.0
18	Magnesium as Mg++ mg/l	1.46	0	54.4
19	Sulphate mg/l	4.9	5.3	114.0
20	Ortho Phosphate mg/l	0.007	0.022	0.037
21	TDS mg/l	98	48	1694
22	TSS mg/l	BDL	BDL	20
23	FDS mg/l	49	34	1483.0
24	Sodium mg/l	14.7	5.2	486.0
25	Potassium mg/l	4.8	1.0	18.9
26	Hexavalent Chromium mg/l	BDL	BDL	BDL
27	% Sodium	48.4	37.0	76.5
28	SAR	1.2	0.5	12.2
29	Arsenic mg/L	BDL	BDL	BDL
30	Cadmium mg/L	BDL	BDL	BDL
31	Copper mg/L	BDL	BDL	BDL
32	Lead mg/L	BDL	BDL	BDL
33	Total Chromium mg/L	BDL	BDL	BDL
34	Mercury mg/L	BDL	BDL	BDL
35	Nickel mg/L	BDL	BDL	BDL
36	Zinc mg/L	BDL	BDL	BDL
37	Iron mg/L	0.1	1.6	2.1

Status of Water Quality

Surface Water

The Level of pH in surface water bodies is within the range 6.5 – 8.5 of primary water quality criteria for bathing water of Class B. DO is less in Kanaganeri Lake during December quarter and in Arasalar River during April quarter. BOD in some of the quarters ranges between 3.1 and 4.7 mg/l at Chunnambar River, Bahour Lake and Ousteri Lake which is slightly higher than 3 mg/l as per the primary water quality criteria for bathing water of Class B. In Kanaganeri lake BOD is high during April quarter (24 mg/l) and in October quarter (13.5 mg/l). The reason may be due to water stagnation and decomposition of Bio mass. In Surface water bodies at Yanam and Mahe Region pH, DO and BOD are meeting the primary water quality criteria for bathing water of Class B.

Ground Water

In Uruvaiyar borewell sample, Chloride, Total Hardness and TDS are higher than the permissible limit. This may be due to geological condition of that area. Nitrate concentration in Krishna Nagar borewell and in the borewell of Chevaliar School is higher than the permissible limit.The reason may be due to discharge of untreated sewage water and haphazard disposal of solid waste. In Uruvaiyur as the usual Sampling borewell, is closed and not in operation, the post monsoon and pre monsoon sampling are done at different borewells in the same area. In mahe region the two Openwells are meeting the drinking water quality standards.

WATER SAMPLING BY THE LABORATORY OFFICIALS

STATUS OF SEA WATER QUALITY ON THE OCCASION OF VINAYAGA CHATURTHI FESTIVAL 2019

PUDUCHERRY

S.No	Parameter	Pre Immersion		During Immersion		Post Immersion	
		Sample - I	Sample - II	Sample - I	Sample - II	Sample - I	Sample- II
		Reference Point	Immersion Point	Reference Point	Immersion Point	Reference Point	Immersion Point
1	Dt. of Sampling	26.08.2019	26.08.2019	06.09.2019	06.09.2019	09.09.2019	09.09.2019
2	Temperature °C	28	27	26	25	26.5	26
3	pH	7.90	7.90	7.69	7.96	7.96	7.88
4	Conductivity ms/cm	51.0	50.4	52.0	51.6	51.9	49.9
5	COD mg/l	NIL	NIL	NIL	NIL	NIL	NIL
6	BOD mg/l	1.25	BDL	BDL	2.55	BDL	2.05
7	TS mg/l	36448	36325	38468	39148	36516	35909
8	TDS mg/l	36428	36292	38344	39020	36430	35792
9	TSS mg/l	20	33	124	128	86	117
10	Arsenic (as As) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
11	Cadmium (as Cd) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
12	Copper (as Cu) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
13	Lead (as Pb) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
14	Chromium (as Cr) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
15	Nickel (as Ni) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
16	Zinc (as Zn) mg/l	0.109	0.088	0.066	0.201	0.037	0.054
17	Iron (as Fe) mg/l	0.39	1.19	0.24	0.91	0.10	0.02
18	Dissolved Oxygen mg/l	6.2	6.3	6.8	6.6	6.7	6.6

No significant changes in the concentration of parameters are noticed.

KARAIKAL

S.No	Parameter	Pre Immersion		During Immersion		Post Immersion	
		Sample - I	Sample - II	Sample - I	Sample - II	Sample - I	Sample- II
		Reference Point	Immersion Point	Reference Point	Immersion Point	Reference Point	Immersion Point
1	Dt. of Sampling	26.08.2019	26.08.2019	05.09.2019	05.09.2019	09.09.2019	09.09.2019
2	Temperature °C	30.9	30.8	31.6	31.9	29.4	29.2
3	pH	7.91	7.92	8.19	8.20	8.05	8.04
4	Conductivity ms/cm	52.2	52.5	53.2	52.9	52.3	52.1
5	COD mg/l	NIL	NIL	NIL	NIL	NIL	NIL
6	BOD mg/l	BDL	BDL	BDL	BDL	BDL	BDL
7	TS mg/l	38276	37867	42949	38798	37137	37257
8	TDS mg/l	38234	37818	42812	38582	36922	37030
9	TSS mg/l	42	49	137	216	215	227
10	Arsenic (as As) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
11	Cadmium (as Cd) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
12	Copper (as Cu) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
13	Lead (as Pb) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
14	Chromium (as Cr) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
15	Nickel (as Ni) mg/l	BDL	BDL	BDL	BDL	BDL	BDL
16	Zinc (as Zn) mg/l	0.034	0.112	0.019	0.017	BDL	BDL
17	Iron (as Fe) mg/l	3.06	2.63	1.81	1.95	1.74	0.23
18	Dissolved Oxygen mg/l	6.1	6.1	6.4	6.3	6.1	5.9

No significant changes in the concentration of parameters are noticed.

References :

1. Ministry of Environment, Forest and Climate Change, New Delhi, has notified 20th February 2020 - Oussudu Lake, Eco-Sensitive Zone.
2. Uniform Drinking Water Quality Monitoring Protocol, Feb 2013.
3. Ministry of Environment and Forests, New Delhi, has notified S.O. 2151, the 17th June, 2005 - Water Quality Assessment Authority (WQAA).
4. Indian Standard - Amemdment No.1 June 2015 IS 10500:2012 Drinking Water - Specification (Second Revision)
5. Primary Water Quality Criteria by CPCB
6. Designated Best Use Water Quality Criteria by CPCB
7. Coastal water standards by CPCB

You can download the above reference from ENVIS HUB Puducherry Website

https://dste.py.gov.in/Envispdy/Sublink/reference.html

Puducherry Environment events

District Level Stake Holders Meeting at Karaikal District

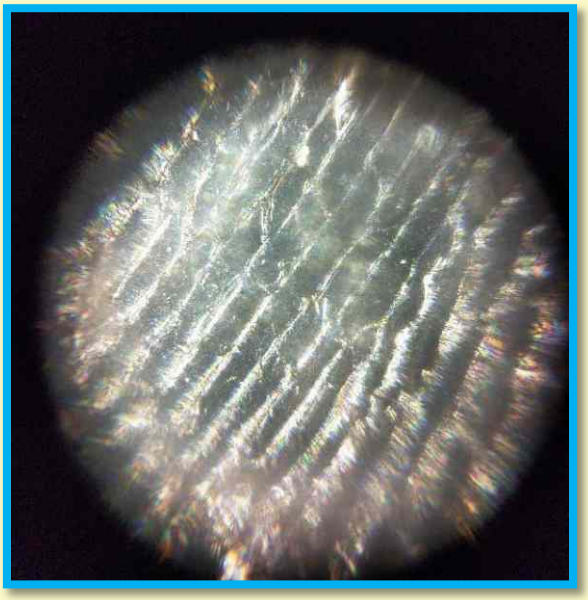
The ENVIS hub Puducherry conducted District Level Stake Holders Meeting to publicize the new initiatives of the Ministry of Environment, Forest & Climate Change, Government of India, New Delhi namely GSDP and GRIDSS programme under the ENVIS scheme on 30.07.2019 at Collectorate, Karaikal under the Chairmanship of District Collector, Karaikal.

ENVIS Coordinator Thiru. P. Vipin Babu, handed over a plant sapling to Shri. A. Vikranth Raja, I.A.S., District Collector, Karaikal.

Presentation on ENVIS Scheme and its new initiatives by Thiru. P. Vipin Babu, ENVIS Coordinator.

One day Workshop on "Use of Foldscope as an Educational Tool"

Shri. S. Dhinesh, Information Technology Officer, Puducherrry Envis Hub attended One day Workshop on "Use of Foldscope as an Educational Tool" at Indira Gandhi, Govt. High School, Katterikuppam, Puducherry on 20.07.2019 Sponsored by Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India and Directorate of School Education, Puducherry. Shri. Pandiarajan, Tamil Nadu Foldscope Instructor briefed about foldscope.



Environmental Awareness Programme

A rising quality of life, and high rates of resource consumption patterns have an unintended and negative impact on the urban environment - generation of wastes far beyond the handling capacities of urban Governments and agencies. Cities are now grappling with the problems of high volumes of waste, the costs involved, the disposal technologies and methodologies and the impact of wastes on the local and global environment. Puducherry ENVIS Hub Centre along with Puducherry Climate Change Cell (PCCC) conducted Environment related awareness programme for the school students in U.T of Puducherry. The aim of this programme is not only in imparting knowledge and understanding the environment but also focuses on inculcating skill, attitude and values necessary to understand and improve the environment.

List of Schools:

SI. No	School Name	Date	No. of Students Participated			No. of Teachers Participated		
			Male	Female	Total	Male	Female	Tot
1	Makkal Thalaivar V. Subbiah GHS, Reddiarpalayam, Puducherry.	01.07.2019	50	19	69	2	2	4
2	Savarirayalu Nayagar GGHS, Needarajappaiar St., Puducherry.	03.07.2019	-	102	102	2	2	4
3	Tamizh Thendral Thiru. Vi. Ka GHS, Savarayalu Street, Puducherry.	05.07.2019	204	-	204	3	3	6
4	GHS, Thengaithittu, Puducherry.	08.07.2019	14	8	22	2	3	5
5	Kamala Nehru GHS, Yanam.	10.07.2019	-	50	50	1	1	2
6	Mahatma Gandhi GBHS, Yanam.	10.07.2019	60	-	60	1	1	2
7	STPP Govt. Jr. College, Yanam.	11.07.2019	67	73	140	4	4	8
8	Pandit Jawarharlal Nehru GHS, Mettakur, Yanam.	11.07.2019	27	25	52	2	2	4
9	Rajiv Gandhi GHS, Yanam.	11.07.2019	-	75	75	1	2	3
10	Jawahar Navodaya Vidyalaya, Mettakur, Yanam.	11.07.2019	154	149	303	9	2	11
11	Perunthalaivar Kamrajar GHS, Gueriampeta, Yanam.	11.07.2019	18	34	52	1	2	3
12	S.K.S.P.V.R.N GHS, Kanakalapeta, Yanam.	11.07.2019	21	30	51	1	2	3
13	Dr. K.R. Narayanan GHS, Dariyalatippa, Yanam.	12.07.2019	38	34	72	2	2	4
14	Dr. Ambedkar GPS, Farampeta, Yanam.	12.07.2019	12	23	35	1	-	1
15	GHS, Kompakkam, Puducherry.	17.07.2019	67	42	109	3	3	6
16	Thiru. Vi. Ka. GHS, Arumparthapuram, Puducherry.	19.07.2019	31	42	73	3	2	5
17	GHS, Uruvaiyar, Puducherry.	22.07.2019	24	21	45	1	3	4
18	GHS, Madagadipet, Puducherry.	24.07.2019	42	52	94	-	3	3
19	Subramania Bharathiar GGHS, Needarajappiyar St., Puducherry.	26.07.2019	-	87	87	2	3	5
		Total	829	866	1695	41	42	83

Puducherry Environment News Report

2 புதுச்சேரி

பிளாஸ்டிக் கழிவு குட்டையாகிய வண்ணான் குளம்

கேள்விக்குறியாகும் சுற்றுச்சூழல்

புதுவை மாநில செய்திகள்

மீன்கள் செத்து மிதந்ததால்

சுண்ணாம்பாற்றில் அதிகாரிகள் ஆய்வு

12 JUL 2019

பசுமைதனம்தோனே பர்யாவரண பரரக்ஷன

தடையை மீறி பிளாஸ்டிக் பொருள் விற்பனை? திருபுவனை பகுதியில் அதிகாரிகள் திடீர் ஆய்வு

மதகடிப்பட்டு கடை வீதியில் வணிக நிறுவனங்களில் தடையை மீறி பிளாஸ்டிக் பொருட்கள் விற்பனை செய்யப்படுகிறதா என மண்ணாடிப்பட்டு கொம்யூன் பஞ்சாயத்து ஆணையர் ஜெயக்குமார், சுற்றுச்சூழல் பொறியாளர் ரமேஷ் ஆகியோர் ஆய்வு மேற்கொண்டனர்.

2 புதுச்சேரி

ஈடன் கார்டனில் துப்புரவு பணி

பிளாஸ்டிக் தடை விழிப்புணர்வு ஊர்வலம்

2 புதுச்சேரி

புதுச்சேரி கடற்கரையில் 16 இடங்களில் தூய்மை பணி

Over 30 waterbodies to be restored before monsoon

Rajesh S. Nair

Initiative to turn ponds into storehouses of rainwater

Long forgotten due to rampant encroachments, Murthy Kulam along Villianur- Kuddanpalkkam Main Road is all set to get a fresh lease of life thanks to the joint initiative of the district administration and Rotary Club.

Once a sprawling waterbody spread over 6 acres, the pond went into oblivion due to encroachments and wild growth of plants. Years ago, the pond used to get filled during monsoon, mainly with the discharge of surplus water from the Ousudu lake.

A few months ago, the district administration relying on revenue records decided to conduct a detailed study of the existing as well as defunct waterbodies in Puducherry.

"We were surprised to see, that a sprawling waterbody existed at the beginning of Villianur- Kuddanpalkkam Main Road. It was completely encroached. There was a road over the waterbody, an arrack shop and temporary business shelters," Collector T. Arun told *The Hindu*.

Rotary Club has come forward to desilt the pond and restore it to its original condition, he said adding the feeder channel carrying surplus water from Ousudu lake to the pond would also be cleaned up. The entire work would be completed before the onset of Northeast monsoon, he said.

He said restoration work would be taken up on more than 30 waterbodies. These ponds would be desilted before the monsoon so that they could turn storehouses of rainwater leading to recharge of groundwater in rural areas.

Puducherry bans 10 single-use plastic items from tomorrow

STAFF REPORTER

The notification will bar their manufacture, stocking and sale in the U.T.

The government is all set to issue an amended notification banning manufacture and sale of 10 single-use plastic items from August 2 in the Union Territory.

"The notification will be issued on the day the ban comes into effect. We have made certain changes in the notification issued when the ban was planned from March 1," a senior government official told *The Hindu*.

A release from Director of Department of Science, Technology and Environment, R. Senthil, said single-use plastic materials such as polythene/plastic/polypropylene carrybags, polythene plastic cups, polythene plastic plates, styrofoam (thermocol) plates, styrofoam cups, plastic sheet pouches used to wrap cooked food, plastic sheets used to spread on dining table, water pouches, plastic straw and plastic flag would be banned in the UT, effective Friday.

The materials would not be allowed to be manufactured, stocked or sold in the Union Territory from the date of ban.

However, plastic items such as non-woven polypropylene bags, plastic-coated paper cups, plastic sheet used for industrial packing, plastic sheet used for packing of pulses, cereals, medicine and milk, multi-layered packaging materials, cling film used for wrapping food, plastic bag of more than 40 x 50 cm in size used for collection and disposal of solid waste and biomedical waste and plastic bags used in horticulture nurseries would be allowed to be manufactured and sold in Puducherry, the release said.

N. Ramesh, Environmental Engineer, Puducherry Pollution Control Committee (PPCC), told *The Hindu* that they had excluded from the ban use of non-woven polypropylene, paper cups and cling film which were earlier under the list of items proposed to be banned.

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NEW DELHI

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