

ANNEXURE-VIIIA

CAUVERY RIVER WATER QUALITY (UNDER GEMS PROGRAMME) FOR THE MONTH OF JANUARY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Mettur	8.1	8.4	315	<2	0.28	0.045	17	84	31	16	140	30	16	3.4	2.2	152	30	18	4.4	23.4	224	212	20	0.12	<0.002	2.80	0.27	B
2	Pallipalayam	7.3	8.2	416	<2	0.40	0.034	220	540	6	20	156	40	16	2.8	1.7	210	36	29	14.0	33.4	292	276	8	0.19	<0.002	3.30	0.50	B
3	Musiri borewell							No	Flow																				
4	Musiri ferrygate	8.0	8.3	545	<2	0.50	0.066	170	630	31	24	184	62	16	4.5	2.2	200	42	23	9.7	51.0	388	364	44	0.3	<0.002	5.3	0.74	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-B
CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF JANUARY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Bathira kalamman koil	7.9	7.5	217	<2	0.097	0.056	79	240	4	<1	64	27	16	2.24	1.12	112	19	16	5	15	188	164	8	0.171	<0.002	2.0	0.86	B
2	Sirumugai	8.7	7.0	263	3	0.104	0.063	63	220	25	<1	68	26	24	2.24	1.12	100	18	14	6	18	196	176	28	0.227	<0.002	3.4	0.93	B
3	Bhavani sagar	7.9	7.0	159	<2	0.045	0.009	43	140	49	<1	68	15	16	2.24	1.12	80	18	9	4	9	136	124	32	0.870	<0.002	2.3	0.97	B
4	Bhavani	8.1	7.5	423	<2	0.056	0.055	63	210	9	12	136	54	16	3.36	1.68	212	46	23	10	29	324	296	8	0.5	<0.002	4.0	0.86	B
5	R.N. Pudur	7.0	8.2	355	<2	0.399	0.026	140	540	4	8	144	38	16	3.36	1.12	176	30	24	12	26	292	272	8	0.426	<0.002	3.0	0.80	B
6	Vairapalayam	7.8	7.8	408	<2	0.382	0.033	310	840	9	4	140	40	16	3.36	1.68	168	32	21	10	35	312	288	8	0.537	<0.002	4.0	0.86	B
7	P. Velur	6.9	8.2	406	<2	0.257	0.008	70	240	6.5	24	176	36	16	2.24	1.12	176	29	25	4	38	292	276	8	0.384	<0.002	4.1	1.04	B
8	Mohanur	7.8	8.2	435	<2	0.243	0.009	110	270	12.4	16	164	48	16	2.8	1.68	192	37	24	29	33	308	288	8	0.4	<0.002	3.4	1.11	B
9	Madathukulam	7.2	7.3	267	<2	0.061	0.007	21	63	78	<1	88	19	32	1.68	0.56	132	21	19	3	13	196	160	48	0.065	<0.002	2.9	0.15	B
10	Thirumukkudal	8.3	8.2	464	<2	0.221	0.050	210	480	6	8	152	62	16	2.24	1.12	180	42	18	8	40	360	336	8	0.888	<0.002	4.0	0.58	B
11	Trichy U/S	7.5	8.0	481	<2	0.471	0.037	270	790	8	20	140	60	16	4.48	2.24	168	32	21	22	46	348	324	16	0.287	<0.002	4.7	0.93	B
12	Trichy D/S	7.7	7.6	562	3	0.528	0.064	460	1400	19	60	144	74	24	5.6	2.80	180	38	20	21	54	384	352	28	0.379	<0.002	5.6	1.09	B
13	Grand Anaicut	6.2	7.7	528	3	0.399	0.079	310	1100	9	8	140	66	24	5.6	3.36	176	37	20	20	50	368	340	20	0.366	<0.002	5.5	1.05	B
14	Coleroon	8.4	8.2	3620	<2	0.843	0.064	78	260	8	8	184	1170	32	5.6	3.36	544	66	92	47	696	2056	1992	8	0.935	<0.002	25.0	0.645	B
15	Pitchavaram	8.4	7.6	738	<2	0.635	0.082	130	390	24	12	172	102	16	4.48	2.24	264	46	36	40	83	432	400	16	0.870	<0.002	6.2	0.979	B
16	Karunthattankudi	7.2	8.3	524	<2	0.971	0.042	170	400	16	12	188	62	16	4.48	2.8	192	37	24	14	53	384	364	40	0.468	<0.002	4.70	0.86	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-C
CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF JANUARY - 2019

Sl.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	6.7	7.8	610	2	0.73	0.396	140	390	6	20	216	90	48	6	3	200	40	24	10	74	416	392	8	0.4	<0.002	6.0	0.99	B
2	Urrachikottai	8.4	7.9	345	<2	0.05	0.042	70	170	1	8	136	36	16	3	2	180	32	24	8	25	296	280	8	0.0	<0.002	3.0	0.90	B
3	Chirampalayam	7.5	8.3	367	2	0.35	0.022	110	320	5	16	156	38	16	4	0.4	180	32	24	2	29	288	268	8	0.2	<0.002	3.0	0.53	B
4	Pugalur	7.1	8.5	519	<2	0.28	0.034	170	490	8	8	168	68	16	3	2	200	43	22	7	47	368	348	8	0.8	<0.002	5.0	0.71	B
5	Pettavaithalai	7.9	8.4	505	<2	0.58	0.048	210	580	8	16	140	58	16	3	2	192	35	25	21	47	364	344	16	0.2	<0.002	4.7	0.61	B
6	Kumbakonam	7.8	7.9	438	<2	0.41	0.430	110	320	11	8	172	50	24	4	3	164	34	19	12	40	352	328	32	0.4	<0.002	4.1	0.76	B
7	Mayiladurai									No Flow																			
8	Sathiyamanagalam	7.9	6.8	155	<2	0.04	0.008	26	84	7	<1	72	16	16	2	1	92	16	13	3	10	136	124	8	0.8	<0.002	2.3	0.95	B
9	Kalingalayan Canal (B5)	7.4	8.2	440	<2	0.39	0.032	210	630	8	8	152	42	16	4	2	208	43	24	12	31	324	300	16	0.5	<0.002	4.0	0.86	B
10	Kalingalayan Canal (B10)	7.1	8.2	446	<2	0.42	0.035	260	700	14	4	144	58	16	4	3	192	40	22	3	35	332	308	8	0.6	<0.002	4.0	0.88	B
11	Thirumanimuthar	Nil	7.9	2690	75	1.39	18.970	3300000	6300000	18	60	590	440	200	40	31	570	104	75	51	352	1680	1492	60	2.0	<0.002	39.0	2.72	E
12	Vasista	Nil	6.3	2940	342	1.04	22.570	1700000	3500000	207	100	990	400	1880	27	16	770	84	136	56	226	1916	1716	144	2.6	<0.002	192	2.29	E
13	Sarabanga	1.4	7.8	2760	18	1.32	0.155	140000	350000	22	24	452	500	72	31	24	450	84	58	14	373	1756	1516	56	2.6	<0.002	38.0	2.86	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-IX
TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF JANUARY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	8.5	6.9	50	<2	0.22	0.02	2	6	2.22	<1	4	8	24	0.28	<0.56	12	3.2	0.97	0.8	-	34	32	2	<0.15	<0.002	0.6	<0.01	A
2	Cheranmadevi	7.3	6.5	69	<2	1.16	0.05	9	14	5.4	<1	8	10	32	0.56	<0.56	26	6.4	2.43	6.9	1.1	46	44	4	<0.15	<0.002	0.7	<0.01	A
3	Kokirakulam	7.0	6.6	103	<2	1.18	0.1	8	17	7.72	<1	10	14	40	0.56	<0.56	50	15	2.92	11.3	3.5	66	62	4	<0.15	<0.002	1.2	<0.01	A
4	Murapanadu	6.7	6.9	175	2.9	0.8	0.07	50	140	4.01	2	20	50	40	1.12	<0.56	72	23	3.4	4.2	8.5	118	114	4	<0.15	<0.002	1.6	<0.01	B
5	Thiruvudaimarudur	6.7	6.7	54	<2	0.8	0.04	6	8	3.4	<1	4	8	24	0.28	<0.56	32	9.6	1.94	1.6	-	32	28	4	<0.15	<0.002	0.5	<0.01	A
6	Ambasamudram	8.0	6.8	51	2	0.3	0.03	4	7	2.48	<1	4	7	24	0.28	<0.56	16	4.8	0.97	0.9	-	30	26	2	<0.15	<0.002	0.5	<0.01	A
7	Author	7.3	7.1	560	2.7	0.74	0.08	17	30	4.18	6	68	125	72	2.8	<0.56	218	56	19	31.2	65.1	380	374	6	<0.15	<0.002	7.8	<0.01	A
8	Eral	6.4	7.0	342	<2	0.77	0.07	26	40	2.35	4	46	75	40	2.24	<0.56	134	48	3.4	18.9	28.2	230	220	4	<0.15	<0.002	4	<0.01	A
9	Kallidai Kurichi	7.8	6.7	46	<2	0.54	0.03	7	9	3.8	<1	4	6	16	0.28	<0.56	32	9.6	1.94	1.1	-	28	26	2	<0.15	<0.002	0.4	<0.01	A
10	Srivaikuntam	6.5	7.0	225	2.1	0.79	0.08	40	70	5.84	4	28	50	80	1.12	<0.56	96	26	8	11	13	150	144	4	<0.15	<0.002	1.8	<0.01	B
11	Vellakovil	6.8	6.7	110	<2	1.23	0.13	11	17	7.39	<1	10	15	40	1.12	<0.56	50	16	2.43	15	4	68	62	6	<0.15	<0.002	1.3	<0.01	A
12	Sivalaperi	6.7	6.7	111	2.05	1.26	0.14	14	26	8.08	<1	12	16	40	1.12	<0.56	48	14	2.92	17	4	70	64	6	<0.15	<0.002	1.3	<0.01	A

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF JANUARY - 2019

S.NO	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Vaigai						No Flow																						
2	Palar						No Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF JANUARY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	5.3	7.1	448	2.1	0.40	2.06	260	840	25	<1	80	54	56	4.5	2.2	132	32	13	11	30	296	232	40	0.5	<0.002	11.2	0.6	B
2	Kodaikanal	7.0	6.8	119	4.6	0.34	<0.2	46	63	0.35	<0.1	4	16	40	6.7	4.5	32	9	2	4	4	54	48	6	<0.2	0.027	0.1	<0.1	E
3	Yercaud	5.3	7.2	358	3.6	0.46	0.08	1300	2800	56	<1	100	52	112	19.0	11.2	128	34	11	15	32	312	244	60	0.8	<0.002	9.6	0.7	E
4	Veeranam	8.5	8.0	487	<2	0.22	0.05	40	110	17	8.0	140	70	16	3.4	1.7	208	38	27	34	47	356	340	16	0.5	<0.002	4.7	0.7	B
5	Poondi	3.0	8.7	484	7.0	0.40	0.08	80	1740	14	<0.1	104	61	24	6.0	3.0	106	26	10	53	48	254	232	14	<0.5	<0.001	3.0	<0.1	E
6	Red Hills	3.0	8.5	490	5.0	<1	<0.05	18	310	2	<0.1	152	68	24	11.0	6.0	120	20	12	33	46	248	196	10	<0.5	<0.001	4.0	<0.1	E
7	Porur	3.0	8.8	486	6.0	<1	<0.05	32	410	12	<1	124	64	56	11.0	6.0	174	34	27	59	47	272	210	10	<0.5	<0.001	4.0	<0.1	E
8	Pulicat	3.0	7.9	55000	8.0	<1	0.1	<1.8	24	7	28.0	114	23210	128	11.0	6.0	7500	721	1385	1916	5274	37430	35248	16	<0.5	<0.001	587.0	<0.1	E

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D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

mg/L-milligram per liter

MPN-Most Probable Number

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) FOR THE MONTH OF FEBRUARY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Mettur	7.3	8.5	406	2	0.18	0.490	63	210	5	<1	136	34	16	2	1	164	34	19	3	34	300	268	8	0.09	<0.002	3.70	0.27	B
2	Pallipalayam	5.6	7.8	808	4	1.15	0.712	320	940	7	8	184	122	32	6	3	200	43	22	15	106	572	524	12	0.47	<0.002	8.30	0.65	E
3	Musiri borewell							No	Flow																				
4	Musiri ferrygate	5.5	8.6	574	2	0.33	0.047	310	840	3	12	148	82	16	2	1	188	38	22	23	63	408	384	8	0.4	<0.002	6.0	0.93	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

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ANNEXURE-VIII-B
CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF FEBRUARY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Bathira kalamman koil	7.2	6.9	148	<2	0.156	0.015	110	280	11	<1	64	17	16	2	1	96	10	17	6	12	132	120	8	0.134	<0.002	2.0	0.13	B
2	Sirumugai	7.0	7.4	196	<2	0.140	0.023	140	350	22	<1	84	19	16	3	2	104	19	14	7	15	180	64	8	0.306	<0.002	2.7	0.25	B
3	Bhavani sagar	4.9	6.5	161	<2	0.093	0.010	170	390	3	<1	52	17	16	3	1	120	30	11	3	12	144	124	8	0.580	<0.002	2.9	0.2	B
4	Bhavani	7.5	7.9	483	<2	0.186	0.051	78	260	8	8	140	38	16	3	1	168	42	16	7	37	312	272	12	0.7	<0.002	4.5	0.7	B
5	R.N. Pudur	6.0	8.2	429	2.8	0.093	0.010	260	630	10	12	152	46	16	4	2	176	35	21	10	37	332	308	28	0.292	<0.002	5.0	0.7	B
6	Vairapalayam	6.6	8.0	517	<2	0.328	0.110	310	700	13	8	164	44	16	3	2	196	42	22	8	33	360	332	32	0.333	<0.002	4.0	0.8	B
7	P. Velur	6.7	7.9	740	2.2	0.212	0.074	130	310	43	16	216	88	16	3	2	224	50	24	36	81	528	488	48	0.330	<0.002	7.7	1.0	B
8	Mohanur	7.2	7.8	794	3	0.293	0.127	140	330	25	4	224	100	16	3	2	232	32	37	43	86	524	484	28	0.4	<0.002	9.2	1.1	B
9	Madathukulam						No Flow																						
10	Thirumukkudal	7.9	8.5	691	<2	0.472	0.029	210	630	4	16	184	92	16	2	1	204	42	24	35	75	520	456	16	0.685	<0.002	6.5	1.0	B
11	Trichy U/S	6.8	8.4	536	<2	0.460	0.036	320	940	8	8	148	72	16	3	1	172	32	22	7	59	432	404	8	0.333	<0.002	6.4	1.0	C
12	Trichy D/S	3.8	7.7	899	6.2	0.530	0.063	700	2100	11	<1	208	118	32	4	3	240	56	24	37	98	576	540	8	0.426	<0.002	13.0	1.2	E
13	Grand Anaicut	2.5	8.1	815	17	0.400	0.018	350	1600	16	<1	196	110	48	6	2	232	46	28	30	90	572	528	24	0.412	<0.002	12.0	1.1	E
14	Coleroon	6.5	8.3	10560	<2	2.430	0.423	110	260	20	12	402	3349	352	7	3	1180	100	226	214	1143	6144	5632	40	0.796	<0.002	55.0	0.7	B
15	Pitchavaram	6.6	7.4	844	<2	0.364	0.055	260	700	21	<1	196	130	16	4	2	240	45	31	37	183	648	616	20	0.593	<0.002	11.0	0.6	B
16	Karunthattankudi	6.3	8.3	497	3	0.054	0.549	170	480	25	12	176	58	24	2	1	168	34	20	19	48	396	356	28	0.407	<0.002	5.0	0.6	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-C

CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF FEBRUARY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	6.8	7.9	597	2.5	0.65	2.362	170	470	8	<1	160	78	24	4	2	148	30	17	7	76	424	368	16	0.3	<0.002	6.0	0.57	B
2	Urrachikottai	8.2	8.4	390	2.1	0.10	0.032	170	380	8	8	144	26	16	3	2	140	30	16	4	34	292	260	12	0.7	<0.002	4.0	0.55	B
3	Chirampalayam	5.4	8.6	441	4.4	0.62	0.788	140	390	10	<1	164	52	24	6	3	144	29	17	5	45	344	308	20	0.2	<0.002	5.0	0.36	E
4	Pugalur	7.6	8.3	676	<2	0.40	0.024	210	580	5	12	192	84	16	2	1	232	42	31	37	77	532	492	16	0.6	<0.002	7.1	0.97	B
5	Pettavaithalai	8.6	8.5	577	<2	0.40	0.034	260	630	3	16	148	76	16	3	1	172	38	18	22	61	400	368	8	0.3	<0.002	6.1	0.74	B
6	Kumbakonam	6.1	8.1	710	2.2	0.07	0.015	210	480	26	12	112	98	24	3	2	220	43	27	22	83	438	408	32	0.5	<0.002	7.0	0.74	B
7	Mayiladurai							No	Flow																				
8	Sathyamanagalam	6.8	7.3	165	<2	0.13	0.018	27	110	7	<1	56	17	16	2	1	128	29	14	4	12	148	128	8	0.6	<0.002	2.9	0.36	B
9	Kalingalrayan Canal	6.6	8.0	517	<2	0.33	0.110	310	700	13	8	164	44	16	3	2	196	42	22	8	33	360	332	32	0.3	<0.002	4.0	0.78	B
10	Kalingalrayan Canal	6.5	8.0	507	<2	0.35	0.119	330	840	13	12	156	54	16	3	2	184	46	16	10	39	344	320	28	0.3	<0.002	5.0	0.76	B
11	Thirumani muthar	Nil	7.7	2380	56	5.16	2.340	1400000	2200000	54	<1	600	364	152	27	13	470	60	78	40	280	1552	1388	128	11.0	<0.002	33.3	1.85	E
12	Vasista	Nil	7.5	3260	230	3.86	0.825	1400000	2800000	437	10	920	505	448	33	15	760	80	136	96	314	2944	2496	252	25.0	<0.002	264.0	1.39	E
13	Sarabanga/Ed	1.0	7.8	2890	24	1.01	7.000	220000	430000	14	4	256	520	128	9	4	410	108	34	8	550	1724	1616	24	5.4	<0.002	52.0	2.08	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-IX
TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF FEBRUARY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	7.8	7.18	74	4	0.15	0.02	4	6	2.25	<1	2	7	8	0.28	<0.56	24	8	0.97	0.9	-	48	44	4	<0.15	<0.002	0.7	<0.01	D
2	Cheranmadevi	7.6	6.64	88	2	0.26	0.04	7	17	0.57	2	6	15	24	1.12	<0.56	14	3.2	1.46	12.1	2	60	54	6	<0.15	<0.002	1.1	<0.01	A
3	Kokirakulam	7.2	6.61	147	2	0.32	0.04	4	8	0.29	<1	4	20	16	2.24	<0.56	16	5	0.97	14	6	102	98	4	<0.15	<0.002	1.5	<0.01	A
4	Murapanadu	6.5	7.31	158	6.48	0.4	0.01	50	70	0.26	4	18	65	40	0.84	<0.56	64	23	1.46	5.3	6.4	116	112	4	<0.15	<0.002	1.5	<0.01	E
5	Thiruvidadaimarudur	7.4	6.81	49	<2	0.38	0.03	6	12	0.21	<1	2	8	40	0.28	<0.56	10	2.4	0.97	2	-	34	26	8	<0.15	<0.002	0.6	<0.01	A
6	Ambasamudram	8.2	7.03	44.1	2	0.27	0.02	4	6	0.29	<1	2	5	16	0.28	<0.56	12	3.2	0.97	1.2	-	30	26	4	<0.15	<0.002	0.6	<0.01	A
7	Author	7.5	7.25	594	3.04	0.44	0.02	17	70	0.29	8	40	170	64	2.8	<0.56	280	101	6.8	32.1	90	410	408	2	<0.15	<0.002	9.4	<0.01	A
8	Eral	6.3	7.34	349	5.88	0.33	0.03	70	110	0.2	8	42	100	48	1.96	<0.56	126	38	18	8	32	248	246	2	<0.15	<0.002	4	<0.01	E
9	Kallidai Kurichi	7.6	6.91	46	2	0.32	0.02	4	9	0.2	<1	2	5	24	0.28	<0.56	10	2.4	1.4	0.97	-	32	28	4	<0.15	<0.002	0.5	<0.01	A
10	Srivaikuntam	6.8	7.3	197	6.48	0.46	0.03	40	140	0.22	6	36	65	48	1.4	<0.56	86	31	1.94	10.2	9.2	146	144	2	<0.15	<0.002	1.4	<0.01	E
11	Vellakovil	7.4	6.68	178	2.7	0.37	0.03	8	17	0.25	4	8	18	80	1.4	<0.56	18	5.6	23.3	0.97	8.3	122	114	8	<0.15	<0.002	1.6	<0.01	A
12	Sivalaperi	7.1	6.73	182.3	2	0.42	0.02	4	12	0.4	2	6	21	16	1.12	<0.56	18	4.8	1.46	17.3	9	120	112	8	<0.15	<0.002	1.7	<0.01	A

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF FEBRUARY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Vaigai						No Flow																						
2	Palar						No Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF FEBRUARY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	5.0	7.2	561	6	0.33	0.63	320	940	35	<1	180	60	24	6	2.8	112	34	7	9	39	412	372	52	0.2	<0.002	14.0	0.1	E
2	Kodaikanal	6.2	6.9	128	4	48.0	0.61	58	84	0.36	<0.1	44	16	48	6	4.5	38	10	3	3	5	78	68	10	<0.2	0.027	0.2	<0.1	E
3	Yercaud	6.3	7.7	383	2	0.36	0.30	330	790	14	<1	106	50	16	3	1.1	104	31	6	2	34	288	264	28	0.2	<0.002	10.4	0.6	B
4	Veeranam	6.8	8.3	526	<2	0.22	0.07	32	94	20	8	172	68	16	2	1.1	164	32	20	8	54	368	344	28	0.5	<0.002	5.0	0.5	B
5	Poondi	4.0	8.3	543	6	<1	<0.05	110	210	20	64	102	69	32	17	11.0	116	23	14	45	55	280	240	12	<0.5	<0.001	6.0	<0.1	E
6	Red Hills	3.0	8.6	626	5	<1	<0.05	250	1100	25	62	128	68	24	11	6.0	112	27	11	53	45	304	280	10	<0.5	<0.001	4.0	<0.1	E
7	Porur	3.0	9.7	751	7	<1	<0.05	210	460	17	60	106	164	24	11	6.0	110	22	13	40	78	436	366	12	<0.5	<0.001	12.0	<0.1	E
8	Pulicat	4.0	7.6	55500	6	<1	<0.5	140	320	22	70	158	19764	136	11	6.0	6800	601	1288	2065	6972	36770	34470	16	<0.5	<0.001	335.0	<0.1	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

mg/L-milligram per liter

MPN-Most Probable Number

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) FOR THE MONTH OF MARCH - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Mettur	8.40	8.10	408	2.5	0.06	0.013	94	350	4	8	144	42	16	3	1	168	29	23	18	26	304	284	8	0.47	<0.002	3.8	0.33	B	
2	Pallipalayam	7.50	7.57	624	3.6	0.36	0.055	790	2100	6	12	176	82	24	6	3	210	52	19	11	75	428	396	16	0.26	<0.002	5.5	0.44	E	
3	Musiri borewell					No	Flow																							
4	Musiri ferrygate					No	Flow																							

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-B
CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF MARCH - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Bathira kalamman koil	7.50	6.96	115	<2	0.328	0.061	63	210	12	<1	52	12	8	1	1	48	11	5	8	7	96	84	12	0.1	<0.002	1.4	0.115	B
2	Sirumugai	7.20	6.99	183	<2	0.578	0.102	84	280	17	<1	72	18	16	2	1	68	16	7	10	15	160	140	16	0.2	<0.002	2.0	0.202	B
3	Bhavani sagar	7.90	6.81	170	<2	0.221	0.072	25	120	4.8	<1	76	15	16	2	1	80	21	7	4	11	148	132	8	0.5	<0.002	2.7	0.404	B
4	Bhavani	7.50	8.26	369	<2	0.399	0.091	170	390	6.2	<1	156	38	16	3	2	160	35	17	18	33	296	276	8	0.5	<0.002	3.7	0.490	B
5	R.N. Pudur	8.90	8.32	412	<2	0.139	0.014	260	700	7.8	8	160	38	16	2	1	164	35	18	11	36	296	276	8	0.4	<0.002	4.0	0.514	B
6	Vairapalayam	8.30	8.35	378	<2	0.114	0.021	210	580	8.5	8	148	40	16	2	1	156	29	20	4	36	296	276	24	0.3	<0.002	3.9	0.484	B
7	P. Velur	8.80	8.72	628	3.4	0.328	0.028	210	470	11.4	16	160	88	24	4	0.3	192	38	23	23	76	432	404	20	0.6	<0.002	6.8	0.969	B
8	Mohanur	8.70	8.55	642	3.4	0.343	0.029	210	480	18.1	20	164	78	24	4	2	192	37	24	32	70	440	412	32	0.7	<0.002	6.5	0.923	B
9	Madathukulam					No	Flow																						
10	Thirumukkudal	7.70	8.23	713	2	0.414	0.042	270	790	2.9	12	204	84	16	4	3	224	40	30	48	77	572	492	8	0.8	<0.002	7.8	0.992	B
11	Trichy U/S					No	Flow																						
12	Trichy D/S					No	Flow																						
13	Grand Anaicut					No	Flow																						
14	Coleroon	8.00	7.75	22700	<2	0.328	0.083	63	280	37.4	<1	156	7848	48	4	2	2700	180	547	14	4220	16244	16164	36	0.0	<0.002	157	0.806	B
15	Pitchavaram	6.20	7.01	1070	<2	0.221	0.061	260	630	8.2	<1	196	175	16	3	1	216	43	26	37	180	740	716	8	0.5	<0.002	11	0.749	B
16	Karunthattankudi	7.10	8.08	509	4	0.271	0.083	250	580	18.20	<1	164	28	24	4	2	160	24	24	16	53	380	348	20	0.2	<0.002	7	0.74	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-C
CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF MARCH - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	8.60	6.94	483	3.6	0.09	0.029	630	1700	8	16	160	53	16	6	3	160	32	19	17	47	372	348	8	0.17	<0.002	5.0	0.24	E
2	Urrachikottai	7.60	8.06	435	<2	0.48	0.131	170	430	9	8	160	48	16	3	2	192	48	17	27	33	340	320	8	0.63	<0.002	3.6	0.65	B
3	Chirampalayam	8.10	7.97	403	3.4	0.27	0.023	330	1100	5	<1	148	36	16	6	2	180	32	24	12	38	328	304	16	0.15	<0.002	3.8	0.21	B
4	Pugalur	6.90	8.24	700	3.0	0.40	0.396	260	700	4	20	204	90	16	4	2	228	46	27	50	75	516	488	8	0.74	<0.002	7.7	0.98	B
5	Pettavaithalai							No	Flow																				
6	Kumbakonam	8.70	8.06	843	<2	0.40	0.131	130	350	30	60	220	132	16	2	1	232	42	31	26	110	596	568	28	0.29	<0.002	9.6	0.87	B
7	Mayiladurai							No	Flow																				
8	Sathiyamanagal am	7.80	7.10	162	<2	0.21	0.065	21	94	8	<1	76	16	16	2	1	80	21	7	4	12	148	136	16	0.44	<0.002	2.8	0.39	B
9	Kalingalrayan Canal (B5)	7.90	7.97	422	<2	0.15	0.015	330	790	9	8	156	44	16	2	1	192	50	17	24	32	312	288	20	0.37	<0.002	3.9	0.57	B
10	Kalingalrayan Canal (B10)	8.60	8.01	410	<2	0.14	0.015	210	630	11	8	160	46	16	3	1	200	43	22	19	31	308	284	8	0.34	<0.002	3.7	0.50	B
11	Thirumanimuthar	Nil	7.54	2340	10	1.29	0.142	170000	390000	13	60	720	370	104	8	3	510	76	78	6	255	1576	1448	8	5.64	<0.002	31	0.88	E
12	Vasista	Nil	7.46	2130	24	1.26	0.131	940000	1700000	158	10	720	300	184	18	9	540	112	63	21	196	1512	1312	136	9.34	<0.002	101	0.51	E
13	Sarabanga/Ed	2.50	7.86	1230	9.6	2.96	0.708	17000	35000	13	<1	224	228	56	9	4	290	60	34	28	180	856	784	28	3.42	<0.002	18	0.61	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-IX

TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF MARCH - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	7.2	6.78	40.8	<2	0.19	0.02	2	4	0.35	<1	2	10	24	0.28	<0.56	8	2.4	0.49	2.5	1	28	24	4	<0.15	<0.002	0.7	<0.01	A
2	Cheranmadevi	7	6.37	76.8	5.2	0.42	0.04	7.8	21	0.77	<1	4	12	16	0.56	<0.56	14	4	0.97	0.8	1	52	46	6	<0.15	<0.002	1.3	<0.01	E
3	Kokirakulam	6.6	6.32	113.2	3	0.47	0.05	11	40	0.29	<1	4	14	16	1.12	<0.56	20	5.6	1.46	5	3.9	78	74	4	<0.15	<0.002	1.3	<0.01	A
4	Murapanadu	7	6.91	168	2.1	0.38	0.03	17	48	5.1	<1	4	28	16	0.84	<0.56	80	23	5.35	8.2	9.1	114	108	6	<0.15	<0.002	1.5	<0.01	A
5	Thiruvaidaimarudur	6.5	6.33	68.8	4.2	0.26	0.03	6.1	17	0.25	<1	4	10	32	0.56	<0.56	10	1.6	1.46	0.6	0.4	46	40	6	<0.15	<0.002	1.3	<0.01	D
6	Ambasamudram	7.8	6.55	48.7	3.1	0.22	0.02	2	8.3	0.68	<1	2	8	24	0.28	<0.56	8	2.4	0.49	1.1	Nil	32	28	4	<0.15	<0.002	0.8	<0.01	A
7	Author	6.5	7.21	655	2.3	0.33	0.03	70	210	4.59	<1	26	136	16	3.36	0.56	242	80	10.2	23.1	90.7	466	452	8	<0.15	<0.002	9.8	<0.01	B
8	Eral	6.1	7.2	353	2.3	0.27	0.03	41	120	2.28	<1	12	64	80	1.96	<0.56	124	46	1.94	15.1	31.9	244	238	8	<0.15	<0.002	2.9	<0.01	B
9	Kallidai Kurichi	7.3	6.42	58.5	2.2	0.23	0.02	4	12	0.68	<1	2	8	24	0.28	<0.56	10	1.6	1.46	0.8	Nil	40	36	4	<0.15	<0.002	0.9	<0.01	A
10	Srivaikuntam	5.8	6.93	197	<2	0.3	0.02	31	84	3.19	<1	8	40	24	1.12	<0.56	84	28	3.4	6.4	10.8	140	134	6	<0.15	<0.002	1.6	<0.01	B
11	Vellakovil	6.7	6.4	129.2	3.1	0.52	0.03	21	63	0.67	2	6	16	16	1.12	<0.56	22	6.4	1.46	2.4	4.5	90	86	4	<0.15	<0.002	1.3	<0.01	B
12	Sivalaperi	6.7	6.42	130.9	6.1	0.6	0.05	31	94	0.49	2	6	18	24	1.12	<0.56	24	7.2	1.46	1.3	5	92	86	6	<0.15	<0.002	1.3	<0.01	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF MARCH - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Vaigai						No Flow																						
2	Palar						No Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use

mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF MARCH - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	5.7	7.1	554	2.8	0.58	14.40	330	1100	13.2	<1	192	60	16	3.4	1.7	124	46	2.0	6.0	44.8	396	372	28.0	0.4	<0.002	15.6	0.3	B
2	Kodaikanal	6.9	6.4	121	4.2	0.24	<0.2	49	79	0.3	<1	38	23	40	6.7	5.0	42	10	3.9	<0.2	0.1	78	68	10.0	<0.2	0.027	0.1	<1	E
3	Yercaud	5.0	7.5	412	3.6	0.58	0.08	63	280	17.8	<1	112	54	24	4.5	2.2	120	35	8.0	3.0	40.5	296	268	4.0	0.4	<0.002	11.5	0.2	E
4	Veeranam	6.4	8.0	501	<2	0.21	1.21	26	110	14.8	8.0	108	30	16	2.2	1.1	128	27	14.5	24.0	66.2	340	312	20.0	0.5	<0.002	5.9	0.5	B
5	Poondi	7.4	8.0	553	<2	<1	<0.05	270	1100	14.0	<1	164	67	32	11.0	6.0	122	33	10.0	22.0	58.0	312	132	12.0	<0.5	<0.001	6.0	<0.1	B
6	Red Hills	7.8	7.7	514	2	<1	<0.05	170	2790	10.0	32.0	124	79	32	17.0	11.0	88	16	8.0	12.0	61.0	298	112	8.0	<0.5	<0.001	5.0	<0.1	B
7	Porur	8.0	9.2	864	16	<1	<0.05	220	700	14.0	<1	100	205	64	11.0	8.0	108	18	12.0	15.0	103.0	472	256	10.0	<0.5	<0.001	14.0	<0.1	E
8	Pulicat	5.6	7.2	53500	6	2.7	<0.05	140	390	20.0	30.0	162	24744	104	17.0	11.0	6400	481	1264.0	52.0	4960.0	39762	35780	14.0	<0.5	<0.001	217.0	<0.1	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

mg/L-milligram per liter

MPN-Most Probable Number

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) FOR THE MONTH OF APRIL - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Mettur	5.20	7.7	416	2	0.05	1.690	70	280	6	<1	140	34	24	2	1	160	27	22	22	32	276	256	16	0.17	<0.002	3.40	0.21	B
2	Pallipalayam	6.60	7.8	474	3	0.09	0.013	940	2200	4	16	144	50	24	6	3	128	26	16	8	42	312	296	16	0.22	<0.002	4.20	0.50	B
3	Musiri borewell						No	Flow																					
4	Musiri ferrygate						No	Flow																					

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-B
CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF APRIL - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Bathira kalamman koil	7.20	7.54	96	<2	0.118	0.043	70	220	6.3	<1	48	11	8	2	1	52	8	8	2	7	88	76	12	0.13	<0.002	1.1	0.75	B
2	Sirumugai	6.80	7.83	297	<2	2.290	0.032	79	240	17	<1	92	24	8	3	2	96	18	13	9	28	220	196	24	0.26	<0.002	3.0	0.98	B
3	Bhavani sagar	5.50	7.45	167	<2	0.068	0.013	22	110	1.8	<1	64	16	8	2	1	68	14	8	3	12	128	116	8	0.80	<0.002	2.7	1.00	B
4	Bhavani	7.70	7.89	390	<2	0.235	0.026	140	380	11	<1	132	33	16	3	2	152	34	17	6	23	284	260	16	0.44	<0.002	2.7	0.74	B
5	R.N. Pudur	6.60	8.19	393	<2	0.187	0.012	210	430	5	8	124	40	16	2	1	136	26	17	7	32	264	216	16	0.32	<0.002	3.4	0.75	B
6	Vairapalayam	7.40	7.85	445	2	0.134	0.060	220	630	8	<1	156	58	16	3	2	144	26	19	5	43	312	284	12	0.34	<0.002	4.1	0.86	B
7	P. Velur	7.90	8.03	508	<2	0.150	0.549	170	430	4	<1	164	56	16	3	2	134	38	21	23	48	344	320	8	0.45	<0.002	4.7	1.15	B
8	Mohanur	6.20	7.83	485	<2	0.164	0.341	150	410	6	<1	152	56	16	2	1	168	29	23	24	50	332	312	12	0.43	<0.002	4.9	1.11	B
9	Madathukulam					No	Flow																						
10	Thirumukkudal	7.50	8.40	445	<2	0.033	0.556	210	470	7	<1	156	52	16	2	1	168	35	19	9	43	320	300	20	0.46	<0.002	4.2	0.55	B
11	Trichy U/S					No	Flow																						
12	Trichy D/S					No	Flow																						
13	Grand Anaicut					No	Flow																						
14	Coleroon	6.00	7.32	934	<2	0.170	0.025	39	140	5	<1	196	150	16	2	1	280	48	39	42	113	620	568	12	0.43	<0.002	12	0.67	B
15	Pitchavaram	4.10	7.99	26200	6.1	0.072	0.015	210	580	8	<1	148	9997	112	9	4	3200	220	644	1309	3500	16912	16736	16	0.52	<0.002	148	0.97	E
16	Karunthattankudi					No	Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use
 A - Drinking Water Source without conventional treatment but after disinfection
 B - Outdoor bathing (organised)
 C - Drinking water source after conventional treatment and disinfection
 D-Propagation of wild life and fisheries
 E -Irrigation, Industrial cooling,controlled waste disposal
Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-C
CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF APRIL - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	6.80	7.63	548.0	4	0.03	0.956	630	1400	15	<1	144	66	24	7	3	190	20	34	18	60	364	332	12	0.24	<0.002	6.4	1.01	E
2	Urrachikottai	8.30	8.11	369.0	<2	0.08	0.024	150	410	3	<1	132	31	16	3	2	136	22	19	5	31	268	244	8	0.42	<0.002	3.4	0.69	B
3	Chirampalayam	6.70	7.65	421.0	2.4	0.06	0.012	310	840	14	<1	136	42	16	4	2	144	24	20	5	37	284	244	8	0.20	<0.002	4.5	0.47	B
4	Pugalur	7.90	8.07	466.0	<2	0.03	0.116	220	480	7	<1	156	50	16	2	1	168	37	18	17	47	328	308	20	0.47	<0.002	4.7	0.56	B
5	Pettavaithalai							No	Flow																				
6	Kumbakonam							No	Flow																				
7	Mayiladurai							No	Flow																				
8	Sathiyamanagalam	4.70	7.26	170.0	<2	0.18	0.010	26	84	4	<1	64	16	8	2	1	48	14	3	2	11	132	116	12	0.81	<0.002	2.7	0.98	B
9	Kalingalrayan Canal (B5)	6.70	7.97	410.0	<2	0.21	0.015	170	350	9	4	148	38	16	2	1	168	40	17	8	24	292	268	20	0.36	<0.002	2.7	0.84	B
10	Kalingalrayan Canal (B10)	6.50	8.07	399.0	<2	0.09	0.014	160	340	5	4	148	32	16	3	2	168	40	17	10	24	272	252	16	0.33	<0.002	2.8	0.78	B
11	Thirumanimuthar	Nil	7.89	2470.0	28	0.18	4.390	70000	170000	11	<1	620	405	240	18	12	278	71	24	11	4	1628	1368	28	8.15	<0.002	29.3	0.98	E
12	Vasista	Nil	7.88	2030.0	7	0.06	5.910	3500	9200	22	<1	504	320	128	12	8	452	85	58	29	226	1356	1164	40	11.4	<0.002	49.0	1.21	E
13	Sarabanga/Ed	Nil	7.83	3040.0	18	0.18	27.000	17000	28000	18	36	456	640	224	15	10	460	96	53	6	473	2020	1752	60	2.38	<0.002	41.0	1.72	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-IX

TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF APRIL - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27 ^o C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	6.7	6.94	48	<2	0.84	0.03	2	8.3	4.9	<1	2	10	24	0.28	<0.56	8	2.4	0.49	2	7.4	34	30	4	<0.15	<0.002	1.8	<0.01	A
2	Cheranmadevi	7.3	6.53	53	2.88	1.54	0.04	11	40	3.26	<1	2	11	24	0.84	<0.56	12	3.2	0.97	3	7.2	38	36	2	<0.15	<0.002	0.4	<0.01	A
3	Kokirakulam	5.7	6.44	84	3.22	1.55	0.04	21	63	2.79	<1	6	13	24	1.68	<0.56	14	4	0.97	3.1	21	58	54	4	<0.15	<0.002	1.1	<0.01	B
4	Murapanadu	6.7	7.08	131	2.2	2.35	0.04	7	23	0.48	<1	8	13	32	0.84	<0.56	62	22	12	5	7.3	88	86	2	<0.15	<0.002	0.5	<0.01	A
5	Thiruvaidaimarudur	6.4	6.57	52	<2	1.1	0.04	7.8	21	3.33	<1	4	10	24	0.56	<0.56	12	3.2	0.97	2.2	7.3	36	32	4	<0.15	<0.002	0.3	<0.01	A
6	Ambasamudram	7.0	6.76	45	<2	0.93	0.02	2	4	2.75	<1	2	9	16	0.28	<0.56	8	2.4	0.49	1.8	5.3	30	26	4	<0.15	<0.002	0.2	<0.01	A
7	Authoroor	7.0	7.74	713	5.1	0.87	0.04	23	60	0.68	<1	30	170	32	3.36	<0.56	212	74	28	26	0	476	470	6	<0.15	<0.002	11	<0.01	D
8	Eral	5.5	7.34	192	3.8	1.53	0.06	9	30	5.38	<1	14	28	24	1.96	<0.56	100	34	16	6.1	11.1	128	124	4	<0.15	<0.002	0.9	<0.01	D
9	Kallidai Kurichi	6.8	6.66	50	<2	0.98	0.03	2	6.1	3.77	<1	4	10	16	0.28	<0.56	8	2.4	0.49	1.5	6.6	36	30	6	<0.15	<0.002	0.4	<0.01	A
10	Srivaikuntam	5.0	7.22	166	2.9	2.22	0.06	12	40	0.83	<1	12	30	32	1.12	<0.56	76	24	16	5	10.4	112	108	4	<0.15	<0.002	0.8	<0.01	D
11	Vellakovil	5.6	6.41	95	2.68	1.64	0.06	18	63	2.45	<1	6	14	32	1.96	<0.56	20	5.6	1.46	4	25.3	66	62	4	<0.15	<0.002	1.5	<0.01	B
12	Sivalaperi	5.5	6.63	101	3.76	2.26	0.06	31	94	2.31	<1	8	12	40	4.2	<0.56	30	8.8	1.94	4.4	28	72	70	2	<0.15	<0.002	1.5	<0.01	D

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF APRIL - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Vaigai	6.0	7.3	818	5	1.55	<0.2	2	4	0.093	24	240	119	40	6	3	194	40	23	25	96	462	450	12	3.10	0.03	10.10	<0.1	F
2	Palar	5.3	7.3	920	2	0.49	<0.05	18	40	2	<1	184	115	128	6	3	164	21	27	99	124	668	436	4	<0.5	<0.001	8.00	<0.1	B

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use

mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - **Drinking water source after conventional treatment and disinfection**

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF APRIL - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	5.9	7.7	629	2	0.02	2.24	320	940	22	<1	160	80	16	6	2	152	40	17	11	52	412	380	32	0.3	<0.002	17.3	0.5	B
2	Kodaikanal	6.8	7.0	122	5	<0.2	<0.2	46	63	0	<0.1	76	20	40	4	3	36	10	3	<5	12	60	48	12	<0.2	0.027	0.1	<0.1	E
3	Yercaud	5.6	7.7	426	2	0.01	0.03	260	700	21	<1	136	58	24	4	2	136	40	9	2	36	288	264	20	0.2	<0.002	11.3	0.6	B
4	Veeranam	6.9	8.0	669	<2	0.03	1.24	22	94	21	<1	120	80	16	3	1	190	28	29	12	61	432	392	28	0.2	<0.002	5.7	0.7	B
5	Poondi	5.6	8.0	637	14	<1	<0.05	36	61	1	<1	166	94	80	6	3	102	34	4	61	112	420	206	6	0.5	<0.001	7.0	<0.1	E
6	Red Hills	6.3	8.6	640	18	0.5	<0.05	170	2200	1	<1	172	115	48	11	2	77	20	7	54	90	418	326	6	<0.5	<0.001	6.0	<0.1	E
7	Porur	7.0	8.8	954	9	0.8	<0.05	110	1400	1	<1	128	243	32	12	3	76	15	9	25	124	834	606	22	<0.5	<0.001	18.0	<0.1	E
8	Pulicat	4.6	7.9	51800	8	2.3	<0.05	68	700	18	8	318	18341	88	16	10	5650	1122	680	1265	7500	42624	38214	36	<0.5	<0.001	197.0	<0.1	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

mg/L-milligram per liter

MPN-Most Probable Number

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) FOR THE MONTH OF MAY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Mettur	4.20	7.71	419	6	0.74	0.367	33	110	5.8	<1	180.0	40.0	16.0	3.4	1.1	152	24	22	19	33	304	284	8	0.14	<0.002	3.80	0.21	D
2	Pallipalayam	5.20	7.42	526	3	0.15	0.019	840	1700	4.2	<1	176.0	72.0	24.0	3.4	1.7	150	32	17	6	55	384	356	16	0.19	<0.002	5.40	0.32	B
3	Musiri borewell						No	Flow																					
4	Musiri ferrygate						No	Flow																					

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-B
CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF MAY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Bathira kalamman koil	7.60	6.61	104	<2	1.102	0.022	33	110	9	<1	48	10	8	2	1	60	6	11	2	5	88	80	8	0.09	<0.002	1.2	0.73	B
2	Sirumugai	7.50	7.10	206	<2	1.320	0.026	79	170	9	<1	80	17	16	2	1	64	11	9	4	16	160	148	8	0.15	<0.002	2.4	0.80	B
3	Bhavani sagar	4.70	6.48	190	2.4	0.008	0.058	21	94	9.1	<1	92	18	16	3	1	76	19	7	3	15	156	144	8	0.07	<0.002	3.4	0.50	B
4	Bhavani	7.50	7.98	449	<2	0.028	0.094	150	340	9.3	<1	172	50	16	2	1	152	34	17	12	38	340	320	12	0.19	<0.002	4.4	0.70	B
5	R.N. Pudur	3.20	7.58	412	4.2	0.019	0.013	210	460	4.1	<1	164	46	24	6	3	140	26	18	13	46	312	292	8	0.14	<0.002	4.7	0.80	E
6	Vairapalayam	5.50	8.09	415	3.4	0.016	0.018	250	580	8.4	<1	176	48	16	4	2	144	26	19	9	41	312	296	8	0.17	<0.002	4.6	0.81	B
7	P. Velur	5.00	7.87	781	3.2	0.148	0.080	170	430	14.1	<1	220	132	16	2	1	230	36	34	16	110	504	484	16	0.17	<0.002	7.7	0.93	B
8	Mohanur	5.10	7.61	806	3	0.217	0.082	210	470	21.4	<1	200	130	16	2	1	210	48	22	22	99	524	500	20	0.22	<0.002	15.0	1.05	B
9	Madathukulam					No	Flow																						
10	Thirumukkudal	7.30	7.61	866	<2	0.054	0.018	140	340	17	8	244	138	16	3	1	270	52	34	37	97	592	568	8	0.18	<0.002	8.2	0.80	B
11	Trichy U/S					No	Flow																						
12	Trichy D/S					No	Flow																						
13	Grand Anaicut					No	Flow																						
14	Coleroon	1.70	7.89	32500	6	0.204	0.034	38	150	3	8	144	9397	128	7.84	3.36	3760.0	216.0	782.0	1342.0	5740	20604.0	20192.0	24.0	0.458	<0.002	180.0	0.496	E
15	Pitchavaram	7.40	6.78	1027	<2	0.034	0.079	170	460	6.6	<1	272	185	16	2.24	1.12	230.0	40.0	32.0	21.0	140.0	724.0	704.0	16.0	0.306	<0.002	17.0	0.046	B
16	Karunthattankudi					No	Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

MPN-Most Probable Number

ANNEXURE-VIII-C
CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF MAY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	5.20	7.66	446	2.5	0.14	0.875	310	840	6	<1	172	54	24	3	1	144	27	19	6	43	340	316	16	0.17	<0.002	4.8	0.22	B
2	Urrachikottai	7.10	7.84	405	<2	0.01	0.086	170	380	8	<1	164	40	16	2	1	144	32	19	10	36	304	280	8	0.13	<0.002	4.0	0.58	B
3	Chirampalayam	5.30	7.60	452	2.4	0.14	0.023	260	630	6	<1	172	54	24	3	1	156	27	21	7	44	336	316	16	0.15	<0.002	4.7	0.24	B
4	Pugalur	7.00	7.54	840	<2	0.05	0.015	140	320	38	8	232	130	16	2	1	250	44	34	29	95	588	560	8	0.15	<0.002	8.0	0.78	B
5	Pettavaithalai							No	Flow																				
6	Kumbakonam							No	Flow																				
7	Mayiladurai	6.20	7.09	845	<2	4.47	0.065	<1.8	2	2	16	328	110	8	1	1	290	52	39	11	93	596	572	4	0.03	<0.002	7.4	<1	A
8	Sathiyamanagalam	5.00	6.83	227	3.0	0.22	0.074	22	79	10	<1	96	25	16	4	2	92	16	13	4	17	184	168	12	0.10	<0.002	4.0	0.39	B
9	Kalingalayan Canal (B5)	6.40	7.91	464	2.2	0.02	0.041	130	320	7	8	180	54	16	3	2	148	34	16	11	43	336	316	8	0.23	<0.002	5.0	0.90	B
10	Kalingalayan Canal (B10)	6.40	8.03	459	2.2	0.03	0.019	130	330	11	20	176	52	16	3	2	172	30	23	12	42	344	324	12	0.21	<0.002	5.0	0.86	B
11	Thirumanimut har (Borewell)	6.20	7.12	8730	<2	0.38	<1	<1.8	4	1	<1	284	2720	40	2	1	1810	240	294	200	1257	6296	6252	4	0.08	<0.002	24.0	0.81	A
12	Vasista (Openwell)	5.70	7.47	3400	<2	5.73	0.180	17	39	2	<1	816	750	16	2	1	1120	160	39	52	306	2136	2104	16	0.02	<0.002	10.0	2.00	A
13	Sarabanga							No	Flow																				

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

MPN-Most Probable Number

ANNEXURE-IX

TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF MAY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	6.2	6.41	63	<2	1.03	0.03	2	6	5.32	<1	4	7	24	0.28	<0.56	10	3.2	0.49	0.9	-	42	38	4	<0.15	<0.002	1.3	<0.01	A
2	Cheranmadevi	7.4	6.33	51	<2	1.16	0.05	9	17	4.52	<1	10	15	32	0.56	<0.56	12	4	0.49	1	-	36	32	4	<0.15	<0.002	0.5	<0.01	A
3	Kokirakulam	4.3	6.25	88.4	<2	1.19	0.05	11	26	4.41	<1	10	6	32	0.84	<0.56	16	4.8	0.97	4	0.4	58	56	2	<0.15	<0.002	1.7	<0.01	C
4	Murapanadu	6.4	7.42	90	2.37	0.14	0.02	8	26	2.8	<1	8	44	40	0.56	<0.56	40	13	2	0.8	3.1	66	60	4	<0.15	<0.002	2	<0.01	A
5	Thiruvaidaimarudur	6.6	6.19	48.1	<2	1.12	0.04	4	14	1.62	<1	6	9	24	0.28	<0.56	10	3.2	0.49	0.8	-	34	32	2	<0.15	<0.002	0.4	<0.01	A
6	Ambasamudram	6.4	6.31	47.1	<2	0.94	0.04	4	11	2.3	<1	4	8	16	0.28	<0.56	8	2.4	0.49	1.1	-	32	30	2	<0.15	<0.002	1	<0.01	A
7	Author	6.3	7.63	450	2.77	0.46	0.05	26	90	3.65	<1	120	122	48	4	<0.56	104	33	5	16.3	50	306	298	6	<0.15	<0.002	7.2	<0.01	B
8	Eral	6.8	7.62	390	2.47	0.37	0.04	21	60	4.84	<1	66	68	48	2.8	<0.56	104	35	4	16.1	49.2	270	261	6	<0.15	<0.002	7.1	<0.01	B
9	Kallidai Kurichi	6.8	6.23	47.4	<2	0.77	0.03	2	9	1.65	<1	6	10	24	0.28	<0.56	8	2.4	0.49	0.7	-	34	32	2	<0.15	<0.002	0.4	<0.01	A
10	Srivaikuntam	6.2	7.48	160	2.47	0.23	0.03	13	40	3.32	<1	16	52	40	1.12	<0.56	64	21	3	6.1	9	112	107	4	<0.15	<0.002	3	<0.01	A
11	Vellakovil	2.5	6.26	103.3	<2	1.22	0.06	11	33	1.45	<1	14	10	40	0.84	<0.56	20	6.4	1	5	0.8	70	68	2	<0.15	<0.002	2	<0.01	E
12	Sivalaperi	2.9	6.27	105	2.36	0.88	0.06	13	40	0.85	<1	18	13	40	2.24	<0.56	20	6.4	1	7	2	68	64	4	<0.15	<0.002	2	<0.01	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF MAY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Vaigai						No Flow																						
2	Palar						No Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF MAY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	5.7	7.3	536	8.4	0.12	0.09	430	1700	54.0	<1	180	60	104	6.7	3.4	180	40	19.4	11.0	37.2	428	340	52	0.5	<0.002	15.0	0.5	E
2	Kodaikanal	6.5	7.0	119	5.2	3.44	0.11	63	84	0.6	<1	32	36	40	5.6	3.9	32	10	2.0	<5	13.0	72	70	2	<0.2	0.027	0.1	<0.1	E
3	Yercaud	4.7	7.4	461	4.8	0.01	0.03	260	630	23.0	<1	156	64	56	5.7	2.8	124	34	10.0	6.4	41.1	348	292	52	0.2	<0.002	13.0	0.4	E
4	Veeranam	4.2	8.2	536	3.3	0.06	0.02	26	84	25.0	28.0	168	90	24	4.5	2.2	150	36	15.0	11.0	59.3	372	348	8	0.2	<0.002	6.0	0.04	C
5	Poondi	6.2	7.4	722	12.0	2.40	<0.05	1100	9200	8.0	<1	18	106	40	6.0	3.0	192	29	29.2	87.0	94.0	490	392	18	<0.5	<0.001	7.0	<0.1	E
6	Red Hills	5.2	7.4	1840	11.0	1.5	<0.05	110	700	22.0	<1	236	410	64	11.0	6.0	170	52	10.0	127.0	224.0	1200	1092	14	<0.5	<0.001	19.0	<0.1	E
7	Porur	6.4	7.5	1443	8.0	2.1	<0.05	390	2800	12.0	<1	160	371	56	14.0	8.0	132	40	8.0	36.0	170.0	954	898	22	<0.5	0.0	19.0	<0.1	E
8	Pulicat	5.2	7.6	53400	6.0	1.5	<0.05	390	790	8.0	<1	170	22563	72	17.0	11.0	7400	521	1482	3182	14448	40234	38912	12	<0.5	<0.001	387.0	<0.1	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

mg/L-milligram per liter

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) FOR THE MONTH OF JUNE - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Mettur	5.10	7.94	523	3	0.2	0.4	58	150	11.2	<1	172	48	16	2.2	1.1	180	38	20	18	46	336	316	12	0.21	<0.002	4.50	0.28	B
2	Pallipalayam	8.20	8.26	711	6	0.2	0.1	580	1500	13.0	16.0	184	112	40	3.4	1.7	156	32	19	10	98	484	436	20	0.26	<0.002	7.70	0.46	E
3	Musiri borewell						No	Flow																					
4	Musiri ferrygate						No	Flow																					

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-B
CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF JUNE - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Bathira kalamman koil	6.60	5.94	58	<2	0.1	0.01	23	63	48.1	<1	20	10	4	1.12	0.56	24	5	3	2	10	48	40	24	0.046	<0.002	1.5	0.14	B
2	Sirumugai	6.40	6.97	148	<2	0.179	0.019	63	140	4.7	<1	60	16	8	1.68	0.56	42	9	5	4	14.4	124	108	12	0.12	<0.002	1.9	0.25	B
3	Bhavani sagar	5.10	7.81	197	3.1	0.036	0.047	38	120	9.4	<1	88	16	16	4.48	1.68	6.4	18	4	2	15	168	148	12	0.134	<0.002	3	0.58	B
4	Bhavani	5.20	8.02	497	2.7	0.272	0.063	130	390	11	<1	176	64	16	3.36	1.68	164	38	17	16	53	360	336	8	0.259	<0.002	5.6	0.82	B
5	R.N. Pudur	5.40	7.72	638	2.6	0.172	0.032	250	580	5.1	<1	176	90	16	3.36	1.12	144	34	15	3.5	83	404	376	8	0.194	<0.002	6.5	0.93	B
6	Vairapalayam	4.90	7.76	637	3.8	0.164	0.037	260	630	4.4	<1	180	94	16	3.36	1.68	160	26	23	3.5	84	404	376	8	0.232	<0.002	6.6	0.98	D
7	P. Velur	6.10	8.76	934	<2	0.35	0.091	250	580	12	<1	196	166	16	3.36	1.68	142	34	26	41	135	568	532	8	0.407	<0.002	10	1.03	B
8	Mohanur	5.40	8.72	1115	2.1	0.411	0.136	260	630	10	12	188	200	16	4.48	2.24	240	28	41	7	155	672	636	8	0.454	<0.002	12	1.13	B
9	Madathukulam					No	Flow																						
10	Thirumukkudal	6.30	7.61	1127	<2	0.861	0.051	170	400	4.70	16	224	190.00	16.00	3.36	1.1	320.00	72.00	34.00	45.00	145	732.00	708.00	8.00	0.843	<0.002	9.80	0.88	B
11	Trichy U/S					No	Flow																						
12	Trichy D/S					No	Flow																						
13	Grand Anaicut					No	Flow																						
14	Coleroon	7.1	7.81	55200	<2	0.392	0.014	17	48	5.2	<1	124	15595	40	5.6	1.68	5150	301	1069	1782	7760	35104	35036	8	0.458	<0.002	282	2.042	A
15	Pitchavaram	6.6	7.41	1526	<2	0.222	0.51	140	540	45	<1	308	275	16	2.24	1.12	270	36	44	18	185	984	956	48	0.519	<0.002	23	0.998	B
16	Karunthattankudi					No	Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

MPN-Most Probable Number

**ANNEXURE-VIII-C
CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF JUNE - 2019**

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	7.8	7.9	539	2	0.15	0.01	330	1100	7.5	<1	172	62	16	2.2	1.12	142	22	21	6	57	364	340	12	0.24	<0.002	6	0.34	B
2	Urrachikottai	5.5	8.2	396	2.5	0.15	0.06	170	410	7.2	<1	172	44	16	3.4	1.12	148	26	20	2	39	296	276	8	0.17	<0.002	4	0.63	B
3	Chirampalayam	8.5	7.9	534	2.2	0.14	0.104	<1.8	580	8.4	<1	184	66	16	3.4	1.12	148	26	20	5	57	360	336	12	0.226	<0.002	6	0.04	B
4	Pugalur	6.4	7.3	1124	2	0.83	0.05	170	390	10.0	8.0	236.0	190.0	16.0	3.4	1.7	310.0	60.0	39.0	41.0	150.0	732.0	708.0	12.0	0.82	<0.002	10	0.86	B
5	Pettavaithalai							No	Flow																				
6	Kumbakonam							No	Flow																				
7	Mayiladurai							No	Flow																				
8	Sathiyamanagal am	5.4	7.56	231	2.5	0.08	0.05	31	63	13	<1	100	24	16	3.4	1.12	80	18	8	2	17.3	196	176	12	0.176	<0.002	4	0.54	B
9	Kalingalayan Canal (B5)							No	Flow																				
10	Kalingalayan Canal (B10)							No	Flow																				
11	Thirumanimuthar (Borewell)	5.4	7.33	10610	<2	2.62	0.029	1.8	5.6	1.1	<1	364	3224	24	3.36	1.12	2600	305	106	447	106	1250	6472	6424	12	<0.002	12	2.08	B
12	Vasista (Openwell)	2.2	7.06	3380	3.6	5.4	0.008	17	41	2.7	<1	708	610	24	3.36	1.68	890	96	158	75	349	2044	2008	12	0.111	<0.002	10.1	1.217	E
13	Sarabanga						No	Flow																					

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-IX

TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF JUNE - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	7.0	7.11	92.4	2	0.19	0.03	2	6	3.64	<1	6	13	32	1.12	<0.56	26	8	1.46	3.2	2.6	68	60	6	<0.15	<0.002	1.7	<0.01	A
2	Cheranmadevi	7.6	6.85	54.3	2	0.28	0.04	2	6	3.01	<1	2	9	24	0.28	<0.56	16	4	1.46	4.8	nil	48	20	14	<0.15	<0.002	0.6	<0.01	A
3	Kokirakulam	5.2	7.1	90.3	<2	0.31	0.04	9	17	2.12	<1	8	12	24	0.84	<0.56	26	8	1.46	3.3	4.2	134	104	32	<0.15	<0.002	5.6	<0.01	B
4	Murapanadu	7.5	6.57	268	<2	0.93	0.04	4	9	3.69	<1	90	50	16	5.32	<0.56	84	26	4.86	20	21.4	188	162	26	<0.15	<0.002	3	<0.01	A
5	Thiruvaidaimarudur	7.2	6.89	54	<2	0.2	0.04	2	6	3.09	<1	2	13	24	0.84	<0.56	18	4.8	1.46	2.6	nil	38	28	8	<0.15	<0.002	0.8	<0.01	A
6	Ambasamudram	6.8	7.02	47.1	2	0.1	0.03	4	17	2.95	<1	4	13	16	0.56	<0.56	14	4	0.97	3.8	nil	34	28	4	<0.15	<0.002	0.4	<0.01	A
7	Author	3.0	6.45	247	5.5	0.76	0.07	7	12	27	<1	86	65	56	7	<0.56	40	13	2	12	22.3	176	146	22	<0.15	<0.002	1.9	<0.01	E
8	Eral	2.8	6.37	170	4.5	0.6	0.06	8	17	32	<1.0	40	55	48	5.6	<0.56	40	13	1.94	5	17	120	86	16	<0.15	<0.002	3.3	<0.01	E
9	Kallidai Kurichi	6.7	6.9	49.1	2	0.22	0.03	2	9	3.84	<1	4	11	16	0.56	<0.56	16	4	1.46	3.3	nil	36	30	4	<0.15	<0.002	0.6	<0.01	A
10	Srivaikuntam	4.0	6.36	162	5.2	0.63	0.06	12	34	2.62	<1	36	50	40	4.76	<0.56	40	11	2.92	6.3	11.4	114	100	14	0.17	<0.002	2.9	<0.01	D
11	Vellakovil	4.0	6.82	104	2	0.42	0.04	7	17	2.5	<1	6	16	24	0.84	<0.56	24	6.4	1.94	3.1	4	74	50	20	<0.15	<0.002	2.2	<0.01	C
12	Sivalaperi	5.0	7.07	150.1	<2	0.56	0.32	11	34	2.9	<1	8	13	24	1.12	<0.56	22	6.4	1.5	0.9	4	104	86	16	<0.15	<0.002	2.2	<0.01	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF JUNE - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Vaigai						No Flow																						
2	Palar						No Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF JUNE - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	7.20	6.70	539	6	0.79	2.170	580	2100	35	<1	204	62	40	6	2.24	124	34	10	4	40	380	336	40	0.41	<0.002	16.00	0.38	E
2	Kodaikanal	7.00	6.60	120	6	<0.2	<0.2	49	79	0.4	<1	40	18	40	6	3.40	38	12	2	<5	13	66	56	10	<0.2	0.03	0.10	<0.1	E
3	Yercaud	6.30	7.20	561	3	0.03	0.06	310	840	22	<1	148	62	24	5	2.24	120	32	10	1	38	336	312	20	0	<0.002	13.20	0.61	B
4	Veeranam	5.00	8.7	683	6	0.122	0.034	26	70	36.2	8	160	86	16	2.24	1.12	120	18	18	27	140	448	424	40	0.194	<0.002	9.1	0.88	D
5	Poondi	5.10	7.04	829	8	3	<0.05	170	700	NIL	<1	164	120	48	3	1.00	124	42	5	104	114	422	376	12	<0.5	<0.001	9.00	<0.1	D
6	Red Hills	4.10	6.67	2360	12	2	<0.05	210	940	NIL	<1	180	525	144	8	5.00	210	65	12	312	256	1550	1438	18	<0.5	<0.001	9.00	<0.1	E
7	Porur	4.90	7.00	1950	11	<1	<0.05	<1.8	330	NIL	<1	70	515	132	2	<0.56	174	56	8	175	208	1196	1060	12	<0.5	<0.001	25.00	<0.1	D
8	Pulicat	5.70	7.43	56100	9	<1	<0.05	<1.8	230	NIL	<1	136	21693	1063	2	<0.56	10850	1162	1932	2747	11400	38060	32760	12	<0.05	<0.001	224.00	<0.1	D

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

mg/L-milligram per liter

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) FOR THE MONTH OF JULY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Mettur	7.00	7.54	479.0	<2	0.2	0.002	26	70	4.6	<1	160	58	16	1.1	0.6	164	27	23	10	43	328	304	12	0.17	<0.002	4.20	0.16	B
2	Pallipalayam	5.40	7.46	535.0	3	0.2	0.1	280	920	11.0	<1	160	76	24	4.5	2.2	210	24	36	18	49	368	340	16	0.24	<0.002	4.40	0.97	B
3	Musiri borewell						No	Flow																					
4	Musiri ferrygate						No	Flow																					

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-B

CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF JULY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Bathira kalamman koil	7.90	5.72	89	<2	0.057	0.00	26	84	97	<1	32	14	8	1.12	0.56	22	6.4	1.5	0.8	6.8	70	60	112	0.06	<0.002	1.8	0.07	B
2	Sirumugai	8.00	5.95	661	<2	0.05	0.002	21	70	239	<1	32	8	8	1.12	0.56	23	5.6	2.2	1.3	5	56	48	288	0.04	<0.002	1.7	0.05	B
3	Bhavani sagar	6.40	7.67	224	<2	0.04	0.01	26	120	16.4	<1	80	18	16	3.36	2.24	66	14.4	7.3	3.3	20	164	148	24	0.166	<0.002	2.8	0.94	B
4	Bhavani	4.80	8.33	1207	3.6	0.77	1.427	140	430	5.3	24	236	215	24	5.6	3.36	250	40.1	37	19	182	804	772	12	0.519	<0.002	9	0.98	D
5	R.N. Pudur	6.10	7.34	612	2	0.2	0.013	210	580	3.8	<1	192	82	16	3.36	1.68	140	26	19	4	76.4	432	412	8	0.213	<0.002	6	0.85	B
6	Vairapalayam	5.90	7.67	634	2.2	0.247	0.015	260	630	4.5	<1	188	90	16	3.36	1.68	160	26	23.3	5.3	78	440	416	12	0.259	<0.002	6.1	0.9	B
7	P. Velur	7.60	7.95	736	<2	0.522	0.078	150	410	8.1	16	196	114	16	3.36	1.68	192	34	26.2	22	89	512	492	12	0.44	<0.002	6.8	1.05	B
8	Mohanur	8.70	8.14	816	<2	0.493	0.072	120	400	2.2	12	148	140	16	2.24	1.12	152	26	21.3	29	99	528	508	8	0.426	<0.002	6.7	1.02	B
9	Madathukulam					No	Flow																						
10	Thirumukkudal	6.60	8.22	719	<2	0.529	0.009	84	280	2.50	36	160	124.00	16.00	6.72	2.2	136.00	19.20	21.40	22.00	101	520.00	496.00	12.00	0.129	<0.002	7.10	1.26	B
11	Trichy U/S					No	Flow																						
12	Trichy D/S					No	Flow																						
13	Grand Anaicut					No	Flow																						
14	Coleroon	7.8	7.95	64100	<2	0.774	0.014	21	70	9.3	<1	120	17994	216	6.72	2.8	6180	417	1249	2860	8120	43884	43736	16	0.352	<0.002	223	2.141	B
15	Pitchavaram	7.2	7.71	1815	<2	0.354	0.001	63	220	46	<1	348	370	16	16	3.92	340	48	54	4.4	240	1172	1144	56	0.227	<0.002	24.4	1.217	B
16	Karunthattankudi					No	Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-C
CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF JULY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N.as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	5.2	7.91	531	3.2	0.225	0.112	320	940	8.3	<1	188	68	24	5.6	2.8	200	24	34	9	45	368	340	12	0.273	<0.002	4.1	0.42	B
2	Urrachikottai	6.1	8.27	449	2.6	0.28	0.414	43	170	10.4	24	172	46	24	4.48	2.8	156	26	22.3	8.8	41	328	308	20	0.333	<0.002	4.1	0.65	B
3	Chirampalayam	6.5	7.96	414	2.3	0.186	0.097	170	490	6.5	<1	160	50	24	2.24	1.12	144	22	21	9	40	292	268	12	0.194	<0.002	3.2	0.5	B
4	Pugalur	6.0	8.2	740	3	0.543	0.206	94	350	3.4	24	200	126	16	7	3	184	21	32	26	105	528	508	12	0.352	<0.002	8	1.22	B
5	Pettavaithalai							No	Flow																				
6	Kumbakonam							No	Flow																				
7	Mayiladurai							No	Flow																				
8	Sathiyamanagalam	7.6	7.79	206	<2	0.047	0.015	27	79	7.7	<1	100	18	16	3.36	2.24	68	18	6	4	14	160	148	16	0.181	<0.002	3	0.5	B
9	Kalingalrayan Canal (B5)							No	Flow																				
10	Kalingalrayan Canal (B10)							No	Flow																				
11	Thirumanimuthar (Borewell)	6	8.01	10840	<2	3.082	0.013	<1.8	4	2.3	<1	460	3874	16	2.24	1.12	2660	337	442	55	1105	7356	7312	24	0.176	<0.002	11	1.95	A
12	Vasista (Openwell)	5.5	7.66	4150	<2	3.323	0.021	49	140	45	<1	640	980	16	2.24	1.12	1170	160	187	97	474	2816	2784	56	0.125	<0.002	7	1.51	B
13	Sarabanga/Ed							No	Flow																				

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

**ANNEXURE-IX
TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF JULY - 2019**

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	7.0	6.78	41	2	0.32	0.03	11	25	1.76	<1	6	13	16	0.56	<0.56	16	5	1	0.4	-	30	24	6	<0.15	<0.002	1	<0.01	A
2	Cheranmadevi	6.9	6.23	43	2	0.51	0.04	21	58	2.11	<1	6	12	14	0.84	<0.56	18	5	1.46	0.3	-	34	30	4	<0.15	<0.002	0.9	<0.01	B
3	Kokirakulam	5.5	7.07	175	2	0.63	0.04	25	84	1.82	<1	30	15	40	1.56	<0.56	28	9.6	0.97	0.3	1.4	136	128	8	<0.15	<0.002	4	<0.01	B
4	Murapanadu	7.9	6.45	98	2	0.66	0.03	17	46	2.83	<1	42	24	32	3.08	<0.56	20	6.4	0.97	0.3	3.94	74	70	4	<0.15	<0.002	1	<0.01	A
5	Thiruvaidaimarudur	7.0	6.28	45	3	0.47	0.04	17	47	1.3	<1	6	13	24	0.84	<0.56	18	5.6	0.97	0.2	-	34	28	6	<0.15	<0.002	0.8	<0.01	A
6	Ambasamudram	6.9	6.56	39	2	0.3	0.03	17	48	1.5	<1	4	11	16	0.56	<0.56	14	4.8	0.49	0.5	-	30	24	4	<0.15	<0.002	1	<0.01	A
7	Author	4.0	6.15	135	3	1.03	0.08	21	84	0.98	<1	40	20	48	6	<0.56	40	13	2	0.2	5	102	86	14	<0.15	<0.002	1.2	<0.01	B
8	Eral	3.8	6.05	128	2	1	0.07	24	70	2.42	<1	40	28	40	5.04	<0.56	32	11	1	0.8	3.4	96	88	8	<0.15	<0.002	1.1	<0.01	C
9	Kallidai Kurichi	7.0	6.39	40	3	0.41	0.03	13	33	1.1	<1	4	8	24	0.56	<0.56	16	4	1.46	0.8	-	32	28	4	<0.15	<0.002	1	<0.01	C
10	Srivaikuntam	7.7	6.31	100.2	2	0.92	0.06	48	150	3.56	<1	36	22	40	4.2	<0.56	28	10	1	0.5	4	76	70	6	<0.15	<0.002	0.8	<0.01	B
11	Vellakovil	4.0	6.81	95	2	0.66	0.05	21	70	1.6	<1	30	17	32	1.56	<0.56	16	6	0.5	0.5	2	74	70	4	<0.15	<0.002	1	<0.01	C
12	Sivalaperi	4.2	6.92	145	4	0.7	0.06	7	20	1.55	<1	24	13	32	0.56	<0.56	20	6.4	1	0.4	2	112	108	4	<0.15	<0.002	1.2	<0.01	D

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF JULY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Vaigai							No Flow																						
2	Palar							No Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use

mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF JULY - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N.as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	5.40	6.94	530	8	5.45	14.44	700	2200	44	<1	172	68	48	9	5.04	132	39	9	6	39	356	324	56	0.69	<0.002	16.00	4.45	E
2	Kodaikanal	7.20	7.66	114	3	<0.2	<0.2	58	84	0.3	<1	44	22	40	6	3.92	32	10	2	<5	8	62	52	10	<0.2	0.03	0.10	<0.1	B
3	Yercaud	7.10	6.94	421	3	3.39	0.47	680	1700	27	<1	168	72	24	3	1.68	124	42	5	1	37	328	304	40	0.21	<0.002	13.00	0.99	B
4	Veeranam	4.9	8.42	627	8	0.787	3.55	63	170	155	<1	148	102	16	6	3	124	16	20.4	31	150	436	412	164	0.056	<0.002	9	1.212	E
5	Poondi					No	Flow																						
6	Red Hills					No	Flow																						
7	Porur					No	Flow																						
8	Pulicate	3.10	6.10	390000	9	3	<0.05	680	930	14	<1	210	179900	480	12	7.00	25050	7795	1361	10608	48650	307340	244320	10	<0.5	<0.001	1890.00	<0.1	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

mg/L-milligram per liter

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) FOR THE MONTH OF AUGUST - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Mettur	6.80	7.21	215.0	<2	0.2	0.034	33.0	110.0	85.7	<1	72.0	12.0	8.0	1.7	0.6	74.0	46.0	28.0	7.0	12.6	168.0	152.0	72.0	0.12	<0.002	2.90	0.08	B	
2	Pallipalayam	7.10	6.93	315.0	<3	0.2	0.1	170.0	380.0	92.3	<1	88.0	34.0	16.0	3.4	1.1	92.0	52.0	40.0	15.0	22.2	220.0	200.0	88.0	0.09	<0.002	3.50	0.71	C	
3	Musiri Borewell						No	Flow																						
4	Musiri Ferrygate						No	Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-B

CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF AUGUST - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Bathira kaliyamman koil	7.50	6.04	251	<2	0.129	0.03	63	140	338	<1	60	27	16	3.36	1.12	55	33	22	2.6	11.8	168	152	212	0.094	<0.002	2.1	0.09	B
2	Sirumugai	7.20	5.93	82	<2	0.093	0.009	27	79	337	<1	28	24	8	1.68	0.56	20	13	7	6.8	4.9	76	68	196	0.027	<0.002	1.9	0.06	B
3	Bhavani sagar	6.80	7.32	195	<2	0.035	0.015	31	84	20.1	<1	72	23	8	1.68	0.56	52	34	18	9	12.4	136	112	32	0.092	<0.002	2.8	0.09	B
4	Bhavani	5.90	7.51	358	2.8	0.496	0.024	78	260	8.3	<1	126	56	16	3.36	1.12	100	66	34	8.8	36.2	236	216	20	0.108	<0.002	4.2	0.45	D
5	R.N. Pudur	5.70	7.55	442	<2	0.25	0.047	220	490	8.9	12	164	48	16	2.8	1.12	146	56	90	6.2	43.1	312	292	16	0.069	<0.002	4.4	0.94	C
6	Vairapalayam	0.60	7.23	1060	15	0.94	0.248	370	930	10.9	<1	224	200	120	5.6	2.8	280	130	150	19	165	788	664	212	0.129	<0.002	12.2	0.77	C
7	P. Velur	6.80	7.62	586	<2	0.429	0.097	140	320	56.3	<1	188	80	16	2.24	1.12	176	84	92	9	70.3	388	364	68	0.129	<0.002	6.2	1.1	B
8	Mohanur	6.10	7.49	641	<2	0.522	0.047	140	330	66.4	<1	180	92	16	2.24	1.12	192	80	112	16	84.3	440	420	72	0.138	<0.002	7.2	1.14	B
9	Madathukulam	7.30	7.66	135	<2	0.386	0.018	23	70	13.8	<1	36	8	8	1.12	0.56	21.0	13.0	8.0	1.5	3.9	92.0	80	20.0	0.122	<0.002	1.8	0.049	
10	Thirumukkudal	6.1	8.35	655	<2	0.096	0.011	79	240	20.1	16	176	102	8	2.8	1.12	184	64	120	12.3	87.9	472	448	28	0.306	<0.002	7.1	1.07	B
11	Trichy U/S						No	Flow																					
12	Trichy D/S						No	Flow																					
13	Grand Anaicut						No	Flow																					
14	Coleroon	7.2	7.59	76900	<2	0.441	0.092	26	63	8.2	<1	84	20250	224	11.2	6.72	6350	950	5400	2101	8510	52410	52160	20	0.238	<0.002	284	2.15	B
15	Pitchavaram	7	7.61	2960	<2	0.052	0.12	110	260	67	<1	364	675	96	4.48	2.24	504	136	38	21	1004	2232	2140	68	1.283	<0.002	71.6	0.92	B
16	Karunthattankudi	5.80	8.02	468	8	3.340	0.066	210	470	23	12	136	70	40	6	3	144	76	68	9	52	312	284	28	0.238	<0.002	6.40	0.10	

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE - VIII - C
CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF AUGUST - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N.as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	7.1	7.1	275	<2	0.2	0.036	210	400	64.1	<1	88	35	8	2.8	1.12	76	44	32	7.3	24.6	200	188	56	0.109	<0.002	4.4	0.094	B
2	Urrachikottai	6.2	8.1	419	<2	0.222	0.098	49	130	19.1	<1	160	50	16	2.8	1.12	152	60	92	12.3	41.6	320	310	32	0.112	<0.002	4.2	0.596	B
3	Chirampalayam	7.2	7.0	204	<2	0.146	0.028	170	390	78.8	<1	80	20	8	2.24	1.12	76	40	36	1.8	13.9	160	144	68	0.074	<0.002	3.8	0.062	B
4	Pugalur	5.8	7.9	671	2	0.11	0.196	63	210	7.70	16	200	92	16	3	1	252	96	156	5.7	76.4	464	440	12	0.28	<0.002	7	1.04	B
5	Pettavaithalai					No	Flow																						
6	Kumbakonam	6.6	7.6	277	2.4	4.09	0.032	78	320	12	<1	108.0	30.0	16.0	3.4	1.7	104	44	60	2	22	204	192	16	0	<0.002	3.8	0.07	B
7	Mayiladurai					No	Flow																						
8	Sathiyamanagalam	6.0	6.8	183	2	0.043	0.013	26	70	20.8	<1	68	18	16	2.24	1.12	56	35	21	9.7	14.1	164	140	32	0.078	<0.002	3.1	0.368	B
9	Kalingalrayan Canal (B5)					No	Flow																						
10	Kalingalrayan Canal (B10)					No	Flow																						
11	Thirumanimuthar (Borewell)	7.0	7.2	8140	<2	4.25	0.196	4	12	1.1	<1	316	2875	112	4.48	2.8	2640	1140	1500	66	499	5256	5132	8	0.238	<0.002	33	1.22	A
12	Vasista (Openwell)	6.8	7.5	4850	<2	0.088	0.024	11	39	1.5	<1	652	1170	96	3.36	1.68	1300	320	980	136	593	3548	3456	8	0.244	<0.002	13.1	1.35	A
13	Sarabanga					No	Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-IX

TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF AUGUST - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	7.4	6.6	28	2	0.02	<0.002	1.8	5.6	1.63	<1	16	5	8	<0.28	<0.56	4	0.8	0.49	2.1	0	18	16	2	<0.2	<0.002	0.2	<0.01	A
2	Cheranmadevi	7.5	6.3	52	2	0.15	<0.002	13	39	2.4	<1	20	13	16	0.28	<0.56	10	3.2	0.49	2.8	0.5	36	32	4	<0.2	<0.002	1	<0.01	A
3	Kokirakulam	6.0	6.2	85	2	0.08	0.029	17	46	1.18	<1	24	14	24	0.56	<0.56	16	4.8	0.97	2.5	3.2	56	50	6	<0.2	<0.002	1	<0.01	A
4	Murapanadu	6.2	6.5	104	3	0.07	<0.002	26	70	3.01	<1	24	15	32	0.84	<0.56	30	9.6	1.46	2	3.3	68	60	8	<0.2	<0.002	1.8	<0.01	B
5	Thiruvidadaimarudur	7.1	6.8	52	3	0.23	<0.002	8	24	2.57	<1	16	12	16	0.28	<0.56	10	3.2	0.49	2.4	0.8	36	32	4	<0.2	<0.002	1.2	<0.01	A
6	Ambasamudram	7.3	6.6	45	2	0.14	<0.002	4	14	1.86	<1	16	10	16	0.28	<0.56	8	2.4	0.49	2.3	0.4	30	28	2	<0.2	<0.002	1.1	<0.01	A
7	Author					No	sampling																						
8	Eral					No	sampling																						
9	Kallidai Kurichi	7.5	6.8	49	2	0.25	<0.002	6	17	2.45	<1	24	13	16	0.28	<0.56	8	2.4	0.49	3	0.8	34	30	4	<0.2	<0.002	1.4	<0.01	A
10	Srivaikuntam					No	sampling																						
11	Vellakovil	5.9	6.3	80	2	0.08	<0.002	23	70	0.96	<1	20	15	24	0.56	<0.56	16	4.8	0.97	2.9	3.1	54	48	6	<0.2	<0.002	1.2	<0.01	B
12	Sivalaperi	6.1	6.9	104	2	0.11	<0.002	38	94	0.77	<1	24	14	32	0.84	<0.56	20	6.4	0.97	2.4	4.2	66	56	10	<0.2	<0.002	0.8	<0.01	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF AUGUST - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Vaigai							No Flow																						
2	Palar							No Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use

mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF AUGUST - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N.as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	6.8	6.8	373	4.8	2.53	0.80	280	920	8	<1	84	39	16	7	3.36	116	92	24	10	21	248	228	16	0.38	<0.002	10.8	0.25	D
2	Kodaikanal	6.4	6.7	120	3.5	<0.2	<0.2	49	79	0.3	<1	40	20	40	6	3.38	30	9	2	2	8	68	58	10	<0.2	0.03	0.1	<0.1	D
3	Yercaud	6.2	7.9	493	<2	0.09	0.43	260	700	25	<1	116	70	16	3	1.68	136	64	72	6	41	320	300	40	0.18	<0.002	13.8	0.03	B
4	Veeranam	4.2	8.3	576	8.7	0.154	0.05	120	280	65.2	<1	112	98	64	5.6	2.8	104	32	72	22	89	396	336	60	0.146	<0.002	7	0.52	E
5	Poondi	7.0	7.2	941	2.0	0.36	<0.05	<1.8	170	14	<1	208	87	48	4	1.0	300	52	41	84	93	528	294	16	<0.5	<0.001	1	<0.1	B
6	Red Hills						No	Flow																					
7	Porur	7.2	7.7	1310	5.0	2	<0.05	140	2200	18	<1	104	255	56	7	4.0	270	52	34	161	167	952	714	32	<0.5	<0.001	18	<0.1	E
8	Pulicate	5.2	7.6	55300	3.0	1	<0.05	<1.8	92	16	<1	120	2093	112	5	3.0	2030	429	233	2326	9030	39360	38040	8	<0.5	<0.001	500	<0.1	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

mg/L-milligram per liter

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) FOR THE MONTH OF SEPTEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Mettur	6.1	6.6	188	<2	0.1	0.008	31.0	84.0	28.0	<1	80.0	26.0	8.0	2.2	1.1	69.0	35.0	34.0	7.3	14.0	148.0	136.0	36.0	0.28	<0.002	2.70	0.21	B	
2	Pallipalayam	6.0	7.2	228	<2	0.2	0.0	92.0	210.0	36.0	<1	68.0	27.0	16.0	3.4	1.1	78.0	38.0	40.0	4.4	17.0	192.0	172.0	44.0	0.28	<0.002	2.70	0.44	B	
3	Musiri Borewell						No	Flow																						
4	Musiri Ferrygate	7.4	7.9	476	4.0	1.0	0.8	260	840	28	<1	136.0	72.0	40.0	6.0	2.2	170.0	108.0	62.0	90.0	41.0	376.0	348.0	36.0	0.1	<0.002	7.1	0.76	D	

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-B

CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF SEPTEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Bathira kalamman koil	6.2	6.5	163	<2	0.118	0.01	32	94	52	<1	48	31	8	1.68	0.56	52	32	20	2.64	12	140	128	64	0.016	<0.002	1.1	0.27	B
2	Sirumugai	6.2	6.6	83	<2	0.076	0.012	9.2	46	53	<1	32	8	8	1.12	0.56	19	14	5	1.1	3.7	64	52	60	0.01	<0.002	0.8	0.35	A
3	Bhavani sagar	5.2	6.7	326	<2	0.172	0.066	140	310	12	<1	140	29	16	3.92	1.12	168	88	80	22	18	280	252	16	0.312	<0.002	3.5	0.78	B
4	Bhavani	5.2	6.7	326	<2	0.172	0.066	140	310	12	<1	140	29	16	3.92	1.12	168	88	80	22	18	280	252	16	0.312	<0.002	3.5	0.78	B
5	R.N. Pudur	6.3	6.4	179	<2	0.15	0.01	130	220	32	<1	76	20	8	2.8	1.12	62	43	19	2.42	13	140	124	44	0.19	<0.002	2.6	0.92	B
6	Vairapalayam	6.4	7.1	184	<2	0.279	0.031	170	310	13	<1	72	19	16	3.36	1.12	67	38	29	2.64	13	144	124	24	0.392	<0.002	2.6	0.88	B
7	P. Velur	6.3	7.1	217	<2	0.386	0.016	130	250	48	<1	88	24	8	3.36	1.12	74	44	30	1.76	16	160	136	56	0.362	<0.002	2.8	0.58	B
8	Mohanur	6.8	7.2	274	<2	0.436	0.016	130	260	35	<1	104	32	16	3.36	1.68	93	54	39	2.42	19.3	220	196	40	0.408	<0.002	3.5	0.72	B
9	Madathukulam	5.7	6.9	248	2.4	0.120	0.036	78	210	38	<1	92	30	16	2.8	1.12	84	49	35	2	19	172	152	52	0	<0.002	3.2	0.739	B
10	Thirumukkudal	5.7	7.0	248	2.4	0.12	0.036	78	210	38	<1	92	30	16	2.8	1.12	84	49	35	1.98	19	172	152	52	0.196	<0.002	3.2	0.74	B
11	Trichy U/S	7.2	7.8	355	3.0	0.934	0.305	260	630	20	<1	108	51	24	3.36	1.68	132.0	82.0	50.0	1.5	31	304	276	28	0	<0.002	5.2	1.186	B
12	Trichy D/S	6.2	7.5	396	3.3	1.104	0.111	310	700	47	<1	124	53	24	3.92	1.68	132.0	84.0	48.0	7.0	36	292	264	56	0	<0.002	6.3	0.975	B
13	Grand Anaicut	5.4	7.9	395	4.0	1.035	0.046	140	350	27	<1	116	55	24	5.6	2.80	140.0	82.0	58.0	7.7	35	312	284	32	0	<0.002	6.2	0.744	D
14	Coleroon	6.0	7.4	59700	2.0	0.375	0.158	26	84	46	<1	88	17245	208	8.96	4.48	6850	1000	5850	1749	9030	35600	35320	56	1	<0.002	195	2.267	B
15	Pitchavaram	5.7	7.4	1970	2.8	0.23	3.098	140	330	6	<1	380	405	64	6.72	3.36	410	280	130	4.4	253	1224	1116	20	7	<0.002	46	1.477	B
16	Karunthattankudi	7.6	8.4	373	5.2	0.272	0.185	110	350	21.00	<1	100	25.00	40.00	5.60	2.8	136.00	68.00	68.00	14.00	22	236	212	32	0	<0.002	4.40	0.75	E

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Drinking Water Source without conventional treatment but after disinfection

C - Outdoor bathing (organised)

D - Propagation of wild life and fisheries

E - Irrigation, Industrial cooling, controlled waste disposal

Below E - Irrigation, Industrial cooling, controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

MPN-Most Probable Number

ANNEXURE - VIII - C

CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF SEPTEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27 ^o C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	5.2	6.9	311	3	0.372	0.018	260	470	46	<1	92	46	24	3.36	1.68	78	46	32	4.84	37	248	220	56	0.316	<0.002	4.5	0.67	B
2	Urrachikottai	5.6	7.8	281	<2	0.218	0.026	58	150	11	<1	80	20	16	2.8	1.12	108	64	44	2.42	13	184	156	20	0.296	<0.002	2.7	0.82	B
3	Chirampalayam	6.2	6.7	195	<2	0.162	0.01	140	320	31	<1	72	20	16	2.24	0.56	66	53	13	1.98	15.2	160	144	24	0.142	<0.002	2.7	0.3	B
4	Pugalur	6.0	6.9	237	2	0.112	0.028	68	170	55	<1	92	28	16	3	1	77	46	31	1	18	168	148	56	0.356	<0.002	3	0.67	B
5	Pettavaithalai	6.4	7.7	571	2.8	0.718	0.1	330	1100	27	<1	168	88	16	3	1	224	144	80	29	53	428	396	32	0.33	<0.002	8.4	0.73	B
6	Kumbakonam	7.8	8.6	258	4.3	0.30	0.020	63	210	27	8	84	24	32	3	2	112	68	44	10	16	208	176	32	0.29	<0.002	3.0	0.70	D
7	Mayiladurai					No	Flow																						
8	Sathiyamanagalam	6.2	6.4	134	<2	0.112	0.072	21	58	15	<1	68	16	24	2	1	62	34	28	2	10	104	88	20	0.312	<0.002	2	0.63	B
9	Kalingalrayan Canal (B5)	6.1	6.9	276	<2	0.247	0.0	26	94	39	<1	104	22	16	2	1	105	63	42	10	17	208	188	40	0.24	<0.002	3.1	0.79	B
10	Kalingalrayan Canal (B10)	6.0	7.1	279	<2	0.261	0.0	25	84	39	<1	104	24	8	3	1	103	63	40	10	17	220	196	48	0.29	<0.002	3.1	0.85	B
11	Thirumanimuthar (Borewell)	6.8	7.0	9570	<2	1.224	0.056	2	4	1	<1	520	3320	112	7	3	2280	1360	920	99	1420	6260	6140	4	0.176	<0.002	11.3	1.89	A
12	Vasista (Openwell)	6.8	6.7	3230	<2	0.142	0.036	2	7	2	<1	770	770	40	3	2	1180	440	740	126	327	2108	2064	4	0.102	<0.002	11	2.205	A
13	Sarabanga					No	Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

MPN-Most Probable Number

**ANNEXURE-IX
TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF SEPTEMBER - 2019**

S.NO	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	7.2	6.3	26	3.3	<0.002	<0.002	2	46	0.66	<1	4	7.18	8	<0.28	<0.56	8	1.6	0.97	<2	-	16	14	2	<0.15	<0.002	0.5	<0.01	A
2	Cheranmadevi	6.6	6.6	36	2.5	<0.002	<0.002	10	47	0.48	<1	8	11.23	16	<0.28	<0.56	12	1.6	0.97	<2	-	22	18	4	<0.15	<0.002	0.9	<0.01	A
3	Kokirakulam	6.0	6.8	51	2.8	<0.002	<0.002	9.1	34	2.04	<1	6	9.19	24	<0.28	<0.56	12	1.6	0.97	<2	-	32	28	4	<0.15	<0.002	0.9	<0.01	A
4	Murapanadu	6.7	6.3	104	4.66	<0.002	<0.002	31	94	2.63	<1	4	18.38	40	<0.28	<0.56	24	6.4	1.94	2	20.3	62	58	4	<0.15	<0.002	2.1	<0.01	D
5	Thiruvidadaimarudur	6.5	6.6	29	3.1	<0.002	0.018	10	70	2.11	<1	2	10.2	8	<0.28	<0.56	12	16	0.97	<2	-	18	14	4	<0.15	<0.002	0.7	<0.01	B
6	Ambasamudram	7.0	6.4	28	2.8	<0.002	0.02	6	63	0.81	<1	6	5.11	8	<0.28	<0.56	8	1.6	0.97	<2	-	16	14	2	<0.15	<0.002	0.5	<0.01	B
7	Authoor						No Sampling																						
8	Eral						No Sampling																						
9	Kallidai Kurichi	7.1	6.5	32	2.4	<0.002	0.021	8.1	49	1.26	<1	5	13.3	16	<0.28	<0.56	8	1.6	0.97	<2	-	20	18	2	<0.15	<0.002	0.6	<0.01	A
10	Srivaikuntam						No Sampling																						
11	Vellakovil	5.9	6.8	55	2.7	<0.002	<0.002	12	43	2.77	<1	9	11.23	24	<0.28	<0.56	12	1.6	0.97	<2	-	34	30	4	<0.15	<0.002	1.1	<0.01	A
12	Sivalaperi	6.0	6.8	56	2.7	<0.002	<0.002	12	79	4.3	<1	10	9.19	24	<0.28	<0.56	16	3.2	0.97	<2	-	34	28	6	<0.15	<0.002	1	<0.01	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF SEPTEMBER - 2019

S.NO	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Vaigai						No Flow																						
2	Palar						No Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use

mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - **Drinking water source after conventional treatment and disinfection**

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF SEPTEMBER - 2019

S.NO	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	4.4	7.5	426	12	0.66	1.30	320	940	25	<1	148	53	56	10	5.60	176	92	84	13	31	364	284	28	0.30	<0.002	12.20	2.23	D
2	Kodaikanal	6.3	6.8	118	3	<0.2	<0.2	58	84	0.3	<1	40	20	32	6	3.36	32	10	2	2	9	60	50	10	0	0.03	0.10	0.23	B
3	Yercaud	5.0	7.0	372	3	1.12	0.70	330	700	47	<1	124	54	24	3	1.68	164	76	88	2	31	296	268	56	0.12	<0.002	12.00	0.98	B
4	Veeranam	6.1	7.4	361	3	0.249	0.857	140	320	9	<1	120	44	24	3.36	1.68	106	48	58	1.54	36	276	256	24	0.216	<0.002	4.7	1.083	B
5	Poondi	5.3	7.2	915	2	2	<0.05	<1.8	<1.8	4	<1	208	76	32	<2	<0.56	380	53	3	89	68	636	358	12	<0.5	<0.001	2.00	<0.1	B
6	Red Hills	5.8	6.6	1019	2	1	<0.05	<1.8	170	1	<1	340	166	32	<2	<0.56	350	100	24	88	67	704	468	6	<0.5	<0.001	8.00	<0.1	B
7	Porur	6.9	6.9	1301	3	<1	2	92	1400	8	<1	376	245	40	<2	<0.56	330	84	22	119	128	984	736	20	0	<0.001	7.00	<0.1	B
8	Pulicate	6.3	7.8	51300	2	<1	<0.05	<1.8	330	1	<1	360	7600	96	<2	<0.56	6420	1643	564	1523	15560	36936	36622	48	<0.5	<0.001	453.00	<0.1	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

mg/L-milligram per liter

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) FOR THE MONTH OF OCTOBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Mettur	6.2	8.1	285	<2	0.1	0.188	26	63	3.0	<1	80	24	16	2.2	1.1	86	50	36	27	12	176	156	4	0.18	<0.002	1.60	0.71	B
2	Pallipalayam	6.6	7.6	254	<2	0.1	0.1	63	170	13.0	<1	94	22	16	1.7	0.6	84	52	32	28	5	172	156	16	0.49	<0.002	0.50	0.50	B
3	Musiri Borewell	6.7	8.0	406	<2	0.0	0.006	<1.8	2	13.0	12.0	152	42	16	2.2	1.1	148	72	76	6	32	280	264	20	0.1	<0.002	5.2	1.26	A
4	Musiri Ferrygate	6.5	7.0	1259	<2	0.92	0.006	330	840	32.0	<1	172	230	16	6.7	2.2	590	440	150	4	51	756	724	40	0.1	<0.002	5.0	0.91	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-B

CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF OCTOBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Bathira kalamman koil	6.5	6.2	120	<2	0.1	0.01	26	63	92	<1	36	17	8	1.12	0.56	41	23	18	2	8	86	78	128	0.278	<0.002	2	0.61	B
2	Sirumugai	6.1	6.1	117	<2	0.114	0.005	25	58	99	<1	56	10	8	1.68	0.56	41	20	21	2	9	84	76	112	0.565	<0.002	2	0.74	B
3	Bhavani sagar	6.8	7.6	170	<2	0.107	0.097	22	70	16	<1	48	9	8	1.68	0.56	35	20	15	17	8.2	108	116	20	0.042	<0.002	2	0.27	B
4	Bhavani	6.4	7.4	392	<2	0.186	0.155	170	330	59	12	148	25	16	2.24	1.12	144	86	58	47	19	280	264	64	0.199	<0.002	5.8	0.43	B
5	R.N. Pudur	6.8	7.2	218	<2	0.136	0.007	33	110	7	<1	100	22	8	2.8	1.12	82	46	36	6.3	15.3	188	180	12	0.111	<0.002	2.6	0.47	B
6	Vairapalayam	6.2	7.5	224	<2	0.179	0.006	31	84	11	<1	144	23	16	2.8	1.12	92	50	42	5.4	15	192	184	12	0.13	<0.002	2.6	0.49	B
7	P. Velur	6.7	7.6	288	<2	0.136	0.01	140	340	12	<1	106	25	16	1.68	0.56	94	58	36	29	6.1	192	176	12	0.389	<0.002	0.7	0.81	B
8	Mohanur	6.3	7.6	332	<2	0.172	0.023	130	350	8	4	120	34	16	2.8	1.12	110	64	46	31	12.2	228	208	12	0.222	<0.002	1.4	0.94	B
9	Madathukulam	6.4	6.7	126	<2	0.572	0.009	14	38	32	<1	60	9.4	8	2.24	1.12	38.0	23.0	15.0	0.8	15.0	104.0	96.0	40.0	0.056	<0.002	2.5	0.894	A
10	Thirumukkudal	6.4	7.8	492	<2	0.107	0.003	61	220	10	12	148	64	16	3.36	1.12	152	80	72	18	63	360	344	16	0.245	<0.002	7	1.06	B
11	Trichy U/S	6.6	7.5	353	<2	0.722	0.005	260	700	8	<1	144	42	16	3.36	1.68	132.0	64.0	68.0	9.0	28.0	264.0	248.0	3.0	0.088	<0.002	5.0	0.281	B
12	Trichy D/S	6.2	7.2	428	<2	0.865	0.606	413	640	29	12	148	54	16	6	2.24	156.0	80.0	76.0	26.0	36.0	320.0	304.0	32.0	0.083	<0.002	6.0	1.137	B
13	Grand Anaicut	6.0	7.1	383	2.4	0.851	0.357	110	320	17	20	144	48	16	6.72	2.80	124.0	68.0	56.0	3.0	31.0	264.0	248.0	20.0	0.097	<0.002	5.1	0.992	B
14	Coleroon	5.8	8.1	832	3.3	0.293	0.011	22	79	9	<1	148	180	24	10	6	168	72	96	13	116	612	584	16	0.06	<0.002	7.2	8.25	B
15	Pitchavaram	6.2	7.8	556	2.7	0.193	0.012	260	140	10	<1	152	82	24	9	4.48	144	96	48	42	65.3	408	384	12	0.787	<0.002	6.4	0.283	B
16	Karunthattankudi	6.2	7.5	420	2	0.201	0.014	140	320	48.0	<1	####	48.0	16.0	2.2	1.1	118.0	70.0	48.0	24.0	36.0	312.0	292.0	56.0	0.042	<0.002	5.0	0.40	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE - VIII - C
CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF OCTOBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	6.8	7.21	238	<2	0.057	0.006	140	390	8	<1	100	22	16	1.12	0.56	84	50	34	27	2.4	164	148	12	0.31	<0.002	0.2	0.81	B
2	Urrachikottai	6.2	7.55	254	<2	0.136	0.039	43	120	10	<1	104	20	16	2.8	1.12	94	52	42	26	15.2	192	184	12	0.088	<0.002	3.3	0.85	B
3	Chirampalayam	6.5	7.3	330	<2	0.257	0.894	92	260	8	<1	112	37	16	3.36	1.68	102	66	36	28	4.3	216	200	12	0.667	<0.002	0.4	0.61	B
4	Pugalur	6.7	8.4	565	<2	0.114	0.009	78	210	13	8	1	50	16	4	2	140	76	64	9	38	352	332	16	0	<0.002	6	0.97	B
5	Pettavaithalai	6.2	7.3	463	<2	0.708	0.0	120	280	1	12	160	58	16	3	2	160	88	172	4	42	332	312	4	0.12	<0.002	6.1	1.27	B
6	Kumbakonam	6.6	7.4	324	<2	0.10	0.048	40	120	6	<1	140	34	16	2	1	112	68	44	15	26	252	236	12	0.07	<0.002	4.0	0.30	B
7	Mayiladurai	6.3	7.9	242	<2	0.31	0.057	11	25	22	<1	64	25	16	2	1	84	48	36	24	17	192	180	24	0.07	<0.002	3.5	0.54	A
8	Sathiyamanagalam	6.7	7.5	438	<2	0.172	0.19	27	79	5	12	144	50	16	2	1	166	86	80	53	25	320	304	8	0.056	<0.002	4.5	0.5	B
9	Kalingalrayan Canal (B5)	6.9	7.4	224	<2	0.172	0.0	33	110	8	<1	124	23	16	2	1	80	48	32	6	15	190	174	12	0.12	<0.002	2.7	0.46	B
10	Kalingalrayan Canal (B10)	6.5	7.5	221	<2	0.164	0.0	32	94	10	<1	120	24	16	3	1	78	54	24	7	15	184	172	16	0.12	<0.002	2.6	0.58	B
11	Thirumanimuthar (Borewell)	5.1	7.7	2090	2.4	5.103	0.002	21	48	3	44	568	280	30	2	1	510	190	320	73	66	1348	1296	4	0.018	<0.002	17	2.11	A
12	Vasista (Openwell)	6.4	7.51	3790	<2	0.157	0.002	4	8	3	8	520	845	32	6	2	1250	410	840	92	38	2324	2268	4	0.111	<0.002	11	1.32	A
13	Sarabanga					No	Flow																						

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-IX
TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF OCTOBER - 2019

S.NO	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	6.7	6.3	60	3	<0.002	<0.002	1.5	5.5	0.24	<1	<1	4	8	<0.28	<0.56	4	2	-	<2	-	20	16	4	<0.15	<0.002	0.5	<0.01	A
2	Cheranmadevi	6.8	6.2	77	3	<0.002	<0.002	6.1	20	0.19	<1	<1	8	24	<0.28	<0.56	16	3.2	1.94	<2	-	48	44	4	<0.15	<0.002	0.6	<0.01	A
3	Kokirakulam	5.7	6.3	62	6	<0.002	<0.002	8.3	24	0.29	<1	<1	6	24	<0.28	<0.56	12	3.2	0.97	<2	0.1	44	38	6	<0.15	<0.002	0.7	<0.01	D
4	Murapanadu	5.9	6.5	274	3	1.02	0.002	49	140	3.56	<1	60	50	40	0.56	<0.28	130	40	7.29	125	16.3	150	138	12	<0.15	<0.002	3.7	<0.01	B
5	Thiruvidadaimarudur	5.0	6.2	64	3	<0.002	<0.002	5.5	14	0.24	<1	<1	6	24	<0.28	<0.56	12	3.2	0.97	<2	-	40	38	2	<0.15	<0.002	0.6	<0.01	B
6	Ambasamudram	7.2	6.2	43	4	<0.002	<0.002	3.6	6.8	0.41	<1	<1	4	16	<0.28	<0.56	8	1.6	0.97	<2	-	26	22	4	<0.15	<0.002	0.5	<0.01	D
7	Authoor	6.8	6.3	2540	2	<0.002	<0.002	14	49	6.81	<1	310	625	64	2.24	<0.28	470	160	17	279	277	1592	1574	18	<0.15	<0.002	29	<0.01	A
8	Eral	4.3	7.0	565	3	1.41	<0.002	20	58	5.32	<1	110	120	40	0.84	<0.28	210	80	2.43	48	57	344	334	10	<0.15	<0.002	7.8	<0.01	B
9	Kallidai Kurichi	6.6	6.3	47	4	<0.002	<0.002	3.6	12	0.27	<1	<1	4	16	<0.28	<0.56	8	1.6	0.97	<2	-	28	26	2	<0.15	<0.002	0.6	<0.01	D
10	Srivaikuntam	7.0	6.6	1044	3	9.13	<0.002	38	120	4.18	<1	250	100	48	1.12	<0.28	230	56	22	122	137	590	578	12	<0.15	<0.002	7.1	<0.01	B
11	Vellakovil	6.2	6.3	64	3	<0.002	<0.002	6.8	25	0.17	<1	<1	6	24	<0.28	<0.56	12	1.6	1.94	<2	0.1	42	38	4	<0.15	<0.002	1	<0.01	A
12	Sivalaperi	6.3	6.3	64	<2	<0.002	<0.002	12	38	0.25	<1	<1	6	24	<0.28	<0.56	12	1.6	1.94	<2	0.4	40	34	6	<0.15	<0.002	1.1	<0.01	A

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF OCTOBER - 2019

S.NO	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Vaigai	6.3	7.7	890	2.0	0.4	<0.2	2.0	4.0	0.9	<0.1	320.0	152.0	40.0	1.1	<0.2	198.0	36.0	26.0	24.0	39.0	502.0	498.0	4.0	0.9	0.0	16.0	<0.1	A
2	Palar							No Flow																					

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use

mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - **Drinking water source after conventional treatment and disinfection**

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF OCTOBER - 2019

S.NO	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	5.5	6.9	285	4.2	0.6	0.34	230	580	22	<1	80	27	24	7	3.36	90	80	10	6	16	188	168	28	0.06	<0.002	8.70	0.89	D
2	Kodaikanal	6.5	6.7	110	2.3	0.4	<0.2	63	84	3	<0.1	40	31	40	4	2.80	32	11	1	6	22	62	56	6	<0.15	0.03	0.20	<0.1	B
3	Yercaud	6.7	6.7	338	<2	0.7	0.06	120	280	5	<1	140	61	16	3	1.68	96	64	32	5	21	296	288	10	0.04	<0.002	7.40	0.14	B
4	Veeranam	6.4	7.4	313	2.1	0.2	0.01	130	250	7	<1	136	38	16	5.6	2.24	120	70	50	2	27	252	240	8	0.065	<0.002	4	1	B
5	Poondi	5.8	7.5	5	2.0	<1	<0.05	<1.8	<1.8	2	<1	550	60	16	<2	<2	200	24	34	58	266	368	142	202	0	<0.001	12.00	<0.1	B
6	Red Hills	5.7	6.8	1720	2.0	<1	<0.05	<1.8	310	3	<1	320	50	64	<2	<2	1000	320	49	699	684	1170	905	12	0	<0.001	17.00	<0.1	B
7	Porur	6.0	7.7	970	2.0	<1	<0.05	<1.8	260	3	<1	300	68	32	<2	<2	830	168	99	186	96	668	432	12	0	<0.001	5.00	<0.01	B
8	Pulicate	6.5	8.2	59500	2.0	<1	<0.05	<1.8	130	10	<1	460	25000	120	2	<2	8750	661	1725	3046	23040	45840	45516	18	0	<0.001	227.00	<0.1	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

mg/L-milligram per liter

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) FOR THE MONTH OF NOVEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Mettur	6.5	7.1	294	<2	0.11	0.007	33	110	1	4	142	31	16	1	1	120	66	54	14	23	220	208	8	0.26	<0.002	2.40	0.77	B
2	Pallipalayam	6.6	7.5	320	<2	0.10	0.001	61	140	3	<1	164	39	16	2	1	122	78	44	15	25	272	256	8	0.26	<0.002	4.30	0.06	B
3	Musiri Borewell					No	Flow																						
4	Musiri Ferrygate	6.3	8.1	376	<2	0.92	0.006	78	260	4	16	196	50	16	2	1	152	74	78	25	36	320	304	8	0.122	<0.002	4.1	0.9	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class - Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D - Propagation of wild life and fisheries

E - Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-B

CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF NOVEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Bathira kalamman koil	7.2	7.7	217	<2	0.099	0.003	32	94	24	<1	72	21	8	3	1	66	36	30	7	15	152	144	32	0.247	<0.002	2.2	0.606	B	
2	Sirumugai	6.2	7.2	156	<2	0.110	0.001	31	84	46	<1	61	18	8	2	1	52	29	23	4	13	120	112	48	0.061	<0.002	2.0	0.733	B	
3	Bhavani sagar	6.6	7.8	114	<2	0.106	0.006	21	63	8	<1	59	14	8	3	1	51	30	21	1	9	92	84	4	0.374	<0.002	1.8	0.270	B	
4	Bhavani	6.2	7.4	208	<2	0.182	0.005	140	390	30	<1	81	21	8	3	1	98	50	48	19	19	172	164	40	0.3	<0.002	5.6	0.430	B	
5	R.N. Pudur							No Sampling																						
6	Vairapalayam	6.6	7.8	287	<2	0.175	0.003	27	110	12	6	136	29	16	2	1	112	58	54	14	20	220	208	16	0.074	<0.002	3.4	0.490	B	
7	P. Velur	6.1	7.2	326	<2	0.100	0.002	49	130	5	8	164	38	16	2	1	128	66	62	19	19	284	264	8	0.216	<0.002	3.2	0.080	B	
8	Mohanur	6.3	7.6	492	<2	0.100	0.001	46	140	5	12	184	68	16	2	1	184	112	72	35	42	392	372	8	0.40	<0.002	5.2	0.930	B	
9	Madathukulam	4.7	7.3	384	<2	0.250	0.003	17	39	10	8	172	48	24	4	2	174	108	66	32	20	320	296	16	0.156	<0.002	2.8	0.892	A	
10	Thirumukkudal	6.3	7.9	452	<2	0.104	0.008	83	210	7	16	180	64	16	2	1	160	76	84	40	63	392	372	12	0.186	<0.002	7.1	1.062	B	
11	Trichy U/S	6.1	7.5	383	<2	0.720	0.005	260	700	6	4	168	52	16	3	1	184	76	108	26	36	328	312	8	0.154	<0.002	6.3	1.287	B	
12	Trichy D/S	5.2	7.1	487	2.4	0.862	0.004	330	1100	17	8	204	66	24	4	2	196	76	124	40	49	412	392	24	0.380	<0.002	6.2	1.137	B	
13	Grand Anaicut	6.1	7.5	446	<2	0.850	0.003	91	250	8	8	192	56	16	3	2	180	88	92	32	43	384	364	12	0.370	<0.002	6.3	0.992	B	
14	Coleroon	4.9	7.6	396	2.9	0.293	0.003	26	70	13	4	144	50	16	3	1	140	64	76	17	37	288	268	16	0.166	<0.002	4.5	0.823	B	
15	Pitchavaram	5.1	7.3	418	2.2	0.190	0.001	79	210	20	14	168	52	16	3	1	148	96	52	14	46	316	292	24	0.666	<0.002	5.0	0.280	B	
16	Karunthattankudi	5.9	7.9	366	2	0.235	0.002	140	390	20	<1	164	46	16	3	1	132	76	56	22	34	292	276	24	0.068	<0.002	4.70	0.17	B	

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Drinking Water Source without conventional treatment but after disinfection

C - Outdoor bathing (organised)

D - Drinking water source after conventional treatment and disinfection

E - Propagation of wild life and fisheries

F - Irrigation, Industrial cooling, controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE - VIII - C
CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF NOVEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	6.4	7.2	410	<2	0.05	0.008	210	430	2	16	168	60	16	2	1	152	80	72	17	42	340	320	8	0.30	<0.002	5.2	0.81	B
2	Urrachikottai	6.5	7.3	283	<2	0.13	0.004	21	58	5	6	130	27	8	2	1	134	70	64	19	21	224	216	8	0.15	<0.002	4.2	0.83	B
3	Chirampalayam	6.5	7.4	339	<2	0.25	0.003	9	41	2	4	168	50	16	2	1	132	72	60	13	29	280	268	8	0.14	<0.002	4.8	0.61	A
4	Pugalur	6.2	7.8	562	<2	0.11	0.006	78	200	8	12	204	82	16	2	1	208	96	12	52	40	432	412	20	0.38	<0.002	6.7	0.97	B
5	Pettavaithalai	6.0	7.7	470	<2	0.71	0.005	170	390	14	12	212	70	16	2	1	188	84	104	38	46	396	380	20	0.32	<0.002	6.1	1.27	B
6	Kumbakonam	5.3	7.9	385	2	0.10	0.003	170	410	18	8	180	54	16	3	1	156	82	74	21	35	324	308	28	0.29	<0.002	4.2	0.30	B
7	Mayiladurai						No	Flow																					
8	Sathiyamanagalam	6.5	7.5	139	<2	0.17	0.007	26	70	8	<1	61	17	8	2	1	61	29	32	3	25	120	116	4	0.30	<0.002	4.2	0.50	B
9	Kalingalrayan Canal (B5)	6.2	7.7	295	<2	0.17	0.004	46	140	22	4	122	30	16	3	1	124	64	60	20	19	220	200	28	0.24	<0.002	3.6	0.46	B
10	Kalingalrayan Canal (B10)	6.1	7.7	285	<2	0.16	0.001	38	120	24	6	130	29	16	2	1	112	60	52	19	19	216	204	24	0.29	<0.002	3.5	0.58	B
11	Thirumanimuthar (Borewell)	5.7	7.4	1208	<2	5.10	0.001	11	31	13	56	472	120	32	2	1	340	120	220	42	160	788	752	20	0.25	<0.002	13.4	2.10	A
12	Vasista (Openwell)	6.1	7.2	3760	<2	0.2	0.004	<1.8	6	9	20	540	860	40	2	1	1140	330	810	141	428	2192	2160	24	0.1	<0.002	9.30	1.3	A
13	Sarabanga				No	Flow																							

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

**ANNEXURE-IX
TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF NOVEMBER - 2019**

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	7.5	6.0	31	<2	<0.002	<0.002	2	6	1.12	<1	4	8	8	<0.56	<0.28	4	0.8	0.49	<2	1.9	18	14	2	<0.15	<0.002	0.2	<0.1	A
2	Cheranmadevi	7.3	5.9	85	<2	0.092	<0.002	6.8	25	14.2	<1	24	18.38	24	<0.56	<0.28	16	4.8	0.97	<2	4.6	54	50	4	<0.15	<0.002	0.9	<0.01	A
3	Kokirakulam	6.5	6.1	146	<2	<0.002	<0.002	20	58	12	<1	50	22.46	32	<0.56	<0.28	16	4.8	0.97	<2	6.9	88	82	2	<0.15	<0.002	2.2	<0.01	B
4	Murapanadu	7.3	6.5	243	<2	0.026	<0.002	6.1	20	0.41	<1	52	34	32	0.56	<0.28	80	29	1.94	17.3	9.5	160	156	4	0.23	<0.002	4.1	<0.01	A
5	Thiruvudaimarudur	7.7	5.8	53	<2	<0.002	<0.002	7	17	5.43	<1	14	12.25	16	<0.56	<0.28	8	2.4	0.49	<2	3.2	30	26	4	<0.15	<0.002	0.4	<0.01	A
6	Ambasamudram	7.3	5.8	42	<2	0.056	<0.002	2	9	3.59	<1	10	10.2	16	<0.56	<0.28	4	0.8	0.49	<2	2.6	26	22	2	<0.15	<0.002	0.2	<0.01	A
7	Author	6.7	6.8	192	<2	0.07	0.012	2	9	2.06	<1	60	32	32	<0.56	<0.28	80	29	1.94	19.3	10.2	122	120	2	<0.15	<0.002	4.5	<0.01	A
8	Eral	7.4	6.7	192	<2	0.14	0.12	7	12	2.13	<1	64	32	32	<0.56	<0.28	80	24	4.86	18.5	10.4	118	116	2	<0.15	<0.002	4.3	<0.01	A
9	Kallidai Kurichi	7.4	5.8	47	<2	0.99	<0.002	4	12	5.22	<1	16	10.21	16	<0.56	<0.28	6	1.6	0.49	<2	2.7	28	24	2	<0.15	<0.002	0.1	<0.01	A
10	Srivaikuntam	6.0	6.7	198	<2	0.11	0.05	12	38	0.63	<1	48	28	40	<0.56	<0.28	80	27	2.92	15.9	8.6	120	118	2	<0.15	<0.002	4	<0.01	A
11	Vellakovil	6.7	6.4	178	<2	<0.002	<0.002	8.1	24	11.5	<1	58	26.54	32	<0.56	<0.28	92	32	1.94	<2	8	112	108	2	<0.15	<0.002	2.8	<0.01	A
12	Sivalaperi	6.8	6.2	253	2	1.14	<0.002	5.1	14	8.1	<1	56	34.71	40	<0.56	<0.28	100	33	4.37	<2	11.2	156	150	4	0.18	<0.002	3.4	<0.01	A

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF NOVEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class		
1	Vaigai							No Flow																							
2	Palar	6.7	7.39	1389	2	<1	<0.05	<1.8	<1.8	0.18	<1	790	122	16	4	2.24	320	40	53	175	147	942	680	12	<0.5	<0.001	7	<0.1	A		

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use

mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF NOVEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N, as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	4.7	7.3	325	7	0.57	0.002	210	430	9	<1	94	36	24	4	2	208	144	64	12	20	272	248	12	0.2	<0.002	8.9	0.9	E
2	Kodaikanal	6.4	7.5	130	3	0.40	<0.2	49	79	1	<1	40	16	40	5	4	32	10	2	4	7	70	64	6	0.3	0.0	0.1	0.3	B
3	Yercaud	6.8	7.9	348	2	0.65	0.002	79	240	7	<1	104	48	24	3	1	100	66	34	7	27	264	240	16	0.1	<0.002	7.8	0.1	B
4	Veeranam	6.2	7.9	339	2	0.15	0.004	63	220	17	8	142	42	16	2	1	128	68	60	12	30	264	240	20	0.0	<0.002	4.3	1.0	B
5	Poondi	6.5	7.0	553	2	<1	<0.05	<1.8	<1.8	1	<1	240	43	32	4	3	250	60	24	58	78	376	128	18	<0.5	<0.001	6.0	<0.1	A
6	Red Hills	5.5	7.7	683	2	<1	<0.05	<1.8	170	1	<1	290	38	24	4	2	380	56	58	128	97	464	216	16	<0.5	<0.001	4.0	<0.1	B
7	Porur	6.4	7.7	902	2	<1	<0.05	<1.8	<1.8	0	<1	320	140	40	3	<2	300	72	29	103	133	614	356	22	<0.5	<0.001	7.0	<0.1	A
8	Pulicate	5.6	7.7	24200	2	<1	<0.05	<1.8	93	3	<1	280	8300	88	3	<2	2700	232	515	680	19320	17424	17098	22	0.1	<0.001	150.0	<0.1	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

mg/L-milligram per liter

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) FOR THE MONTH OF DECEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Mettur	6.0	8.1	319	<2	0.1	0.2	32	120	3	8	100	50	16	2	1	128	56	72	11	23	248	232	8	0.03	<0.002	3.60	0.76	B
2	Pallipalayam	7.0	7.9	452	<2	0.1	0.1	68	210	1	12	148	54	16	2	1	148	84	64	23	36	312	292	4	0.14	<0.002	5.20	0.51	B
3	Musiri Borewell					No	Flow																						
4	Musiri Ferrygate	6.7	8.1	407	<2	0.9	0.0	78	220	3	28	136	46	16	2	1	144	76	68	15	34	312	292	8	0.1	<0.002	4.8	0.89	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-VIII-B

CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME FOR THE MONTH OF DECEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Bathira kalamman koil	6.7	7.7	238	<2	0.086	0.005	33	110	10	<1	96.0	26.0	8.0	2.2	1.1	104	60	44	1.3	20	188	176	16	0.032	<0.002	4.1	0.433	B
2	Sirumugai	4.8	7.3	269	<2	0.100	0.003	70	210	76	<1	80.0	26.0	16.0	2.8	1.1	116	60	56	12	18	212	200	80	0.125	<0.002	4.0	0.692	D
3	Bhavani sagar	6.1	7.0	173	<2	0.144	0.103	22	70	4.1	<1	64	19	8	2.8	1.1	66	36	30	11	15	132	120	8	0.009	<0.002	3.1	0.277	B
4	Bhavani	7.3	7.7	534	<2	0.186	0.153	21	94	3.7	20	204	30	16	1.7	0.6	232	128	104	22	37	376	360	4	0.0	<0.002	4.8	0.444	B
5	R.N. Pudur	6.9	8.1	378	<2	0.150	0.005	31	110	6	<1	144	34	16	2.2	1.1	140	72	68	13	27	264	244	12	0.046	<0.002	3.7	0.669	B
6	Vairapalayam	6.8	8.1	386	<2	0.471	0.006	31	84	8	<1	140	40	16	2.2	0.8	124	80	44	15	30	268	252	12	0.204	<0.002	4.0	0.485	B
7	P. Velur	7.1	7.8	477	<2	0.157	0.012	31	94	4	16	152	50	16	2.2	1.1	168	76	92	27	41	320	300	4	0.208	<0.002	4.9	0.092	B
8	Mohanur	5.9	7.8	694	<2	0.129	0.011	140	350	15	24	200	88	16	2.8	1.1	220	116	104	45	66	464	440	24	0.3	<0.002	6.5	0.946	B
9	Madathukulam	4.7	7.7	548	2.1	0.278	0.009	21	48	10	12	156	60	16	2.2	1.1	168	112	56	22	33	348	328	16	0.129	<0.002	4.0	0.877	D
10	Thirumukkudal	6.3	8.3	755	<2	0.129	0.005	170	390	5	16	160	120	16	1.7	0.6	220	116	104	32	80	480	460	8	0.412	<0.002	8.3	1.040	B
11	Trichy U/S	6.3	8.0	483	<2	0.743	0.004	46	110	4.2	12	144	52	24	2.2	1.1	176	96	80	18	43	400	376	8	0.166	<0.002	5.6	1.281	B
12	Trichy D/S	5.9	7.7	570	2.4	0.864	0.603	63	150	20.1	8	156	76	24	2.2	1.1	172	88	84	19	52	404	376	28	0.333	<0.002	7.0	1.125	B
13	Grand Anaicut	5.6	7.7	542	3	0.786	0.352	93	270	10.6	8	144	64	24	2.8	1.1	144	88	56	18	44	356	336	16	0.092	<0.002	6.0	0.990	B
14	Coleroon	5.2	7.9	528	2.1	0.292	0.008	170	430	73	<1	148	58	16	3.4	1.7	180	60	120	26	49	324	304	84	0.032	<0.002	5.7	0.825	B
15	Pitchavaram	6.8	7.2	224	<2	0.200	0.009	94	280	29	<1	80	25	8	1.7	0.6	76	44	32	1.4	19	176	164	36	0.013	<0.002	4.0	0.231	B
16	Karunthattankudi	5.6	7.8	474	3	0.439	0.001	230	490	9.80	<1	140	54.00	16.00	3.9	1.7	156	76	80	15	41	348	328	20	0.143	<0.002	5.60	0.77	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

mg/L-milligram per liter

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Drinking Water Source without conventional treatment but after disinfection

C - Outdoor bathing (organised)

D - Drinking water source after conventional treatment and disinfection

E - Propagation of wild life and fisheries

F - Irrigation, Industrial cooling, controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE - VIII - C
CAUVERY RIVER WATER QUALITY - (UNDER MINARS PROGRAMME) FOR THE MONTH OF DECEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N ₂ as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca ⁺⁺ mg/L	Magnesium as Mg ⁺⁺ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	6.8	7.8	387	<2	0.06	0.01	170	390	4	<1	136	36	16	2	1	128	64	64	17	30	264	244	4	0.03	<0.002	4.4	0.83	B
2	Urrachikottai	7.3	7.8	520	<2	0.14	0.04	21	63	10	52	148	56	16	2	1	156	88	68	24	28	344	324	16	0.13	<0.002	3.6	0.84	B
3	Chirampalayam	7.2	8.0	357	<2	0.24	0.89	94	220	1	4	132	32	16	1	1	128	76	52	15	24	248	232	4	0.03	<0.002	3.5	0.62	B
4	Pugalur	6.7	8.1	490	<2	0.11	0.01	68	220	1	16	140	66	16	2	1	160	112	48	20	48	356	336	4	0.04	<0.002	6.0	0.96	B
5	Pettavaithalai	6.5	8.3	480	<2	0.69	0.04	140	330	4	12	144	56	16	2	1	156	80	76	18	41	336	316	8	0.12	<0.002	5.3	1.27	B
6	Kumbakonam	5.7	8.0	424	2	0.10	0.05	170	390	12	12	140	54	16	3	1	124	76	48	15	36	288	264	16	0.06	<0.002	5.2	0.29	B
7	Mayiladurai							No	Flow																				
8	Sathiyamanagalam	7.1	7.5	314	<2	0.19	0.02	31	84	4	<1	100	32	16	2	1	116	76	40	21	24	232	216	4	0.08	<0.002	3.7	0.49	B
9	Kalingalrayan Canal (B5)	7.0	8.2	525	<2	0.19	0.01	33	110	5	12	176	52	16	3	1	200	116	84	28	35	372	352	8	0.03	<0.002	4.7	0.43	B
10	Kalingalrayan Canal (B10)	6.5	8.1	622	<2	0.20	0.01	70	170	4	16	196	70	16	3	1	200	108	92	27	53	408	388	8	0.09	<0.002	5.3	0.58	B
11	Thirumanimuthar (Borewell)	6.8	7.3	1598	<2	5.85	0.00	12	38	1	36	424	150	24	2	1	380	140	240	125	165	1032	976	4	0.03	<0.002	15.4	2.08	A
12	Vasista (Openwell)	6.9	7.4	6520	<2	0.16	0.02	<1.8	4	1	<1	428	1874	56	2	1	2080	800	1280	372	508	4244	4164	4	0.13	<0.002	10.6	1.30	A
13	Sarabanga				No	Flow																							

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

mg/L-milligram per liter

MPN-Most Probable Number

**ANNEXURE-IX
TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME) FOR THE MONTH OF DECEMBER - 2019**

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	8.0	6.5	57	2.35	<0.002	0.006	3.6	10	2.13	<1	12	18	24	<0.56	<0.28	8	1.6	0.97	<2	0	62	60	2	<0.15	<0.002	0.1	<0.01	A
2	Cheranmadevi	7.2	6.5	154	2.37	<0.002	0.014	41	120	4.53	<1	40	23	32	<0.56	<0.28	16	4.8	0.97	8.42	3.4	96	90	6	<0.15	<0.002	0.4	<0.01	B
3	Kokirakulam	7.4	6.5	143	2.45	0.053	0.012	63	170	5.02	<1	40	20	32	<0.56	<0.28	20	4.8	1.94	<2	0.3	88	82	6	<0.15	<0.002	0.6	<0.01	B
4	Murapanadu	7.5	6.5	244	2.45	0.043	0.002	23	63	3.23	<1	46	31	48	<0.56	<0.28	48	16	1.94	<2	8.5	154	150	4	<0.15	<0.002	4	<0.01	B
5	Thiruvidaimarudur	7.9	6.5	74	2.55	<0.002	0.04	13	47	3.96	<1	20	14	16	<0.56	<0.28	16	4.8	0.97	<2	0	46	42	4	<0.15	<0.002	0.2	<0.01	A
6	Ambasamudram	8.2	6.5	99	2.25	<0.002	0.064	6.1	14	4.31	<1	26	16	24	<0.56	<0.28	8	1.6	0.97	<2	0	62	60	2	<0.15	<0.002	0.1	<0.01	A
7	Author	7.5	6.5	259	2.05	0.013	0.053	33	94	1.32	<1	52	18	40	<0.56	<0.28	52	16	2.92	4.75	10.8	168	152	16	<0.15	<0.002	3.8	<0.01	B
8	Eral	7.8	6.5	255	2.45	<0.002	0.079	84	140	1.34	<1	48	37	64	<0.56	<0.28	52	18	1.94	1.09	10.6	164	160	4	<0.15	<0.002	3.5	<0.01	B
9	Kallidai Kurichi	8.0	6.5	85	2.45	<0.002	0.038	13	38	5.03	<1	22	20	24	<0.56	<0.28	12	3.2	0.97	<2	0	52	48	4	<0.15	<0.002	0.2	<0.01	A
10	Srivaikuntam	6.5	6.4	241	2.35	<0.002	0.009	70	210	2.01	<1	50	33	40	<0.56	<0.28	56	19	1.94	6.44	8.4	152	144	8	<0.15	<0.002	3.9	<0.01	B
11	Vellakovil	6.5	6.4	241	2.35	<0.002	0.009	70	210	2.01	<1	50	33	40	<0.56	<0.28	56	19	1.94	6.44	8.4	152	144	8	<0.15	<0.002	3.9	<0.01	B
12	Sivalaperi	6.0	6.4	231	2.45	0.013	0.012	70	210	5.21	<1	46	31	48	<0.56	<0.28	40	13	1.94	12.2	8.1	144	138	6	<0.15	<0.002	0.8	<0.01	B

*CPCB-GEMS / MINARS Water Quality Criteria

DBU Class-Designated Best Use

MPN-Most Probable Number

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE-X

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME) FOR THE MONTH OF DECEMBER - 2019

S.NO	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class	
1	Vaigai					No	Flow																							
2	Palar					No	Flow																							

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

DBU Class-Designated Best Use

mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria

ANNEXURE -XI

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) MONTH OF DECEMBER - 2019

S.No.	Name of station	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27° C mg/L	Nitrate mg/L	Nitrite mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagamandalam	6.8	6.7	234	<2	0.60	0.33	170	390	6.6	<1	52	26	16	1.1	0.6	92	52	40	2.3	19	164	148	12	0.03	<0.002	7.3	1.0	B
2	Kodaikanal	6.3	6.6	107	5	0.32	<0.2	49	79	0.4	<1	40	15	40	5.6	3.4	30	9	2	3.2	8	70	64	6	<0.2	0.027	<5	<0.1	D
3	Yercaud	6.8	6.8	357	2	0.67	0.04	120	260	5.4	<1	100	48	24	3.4	1.1	96	80	16	11.0	29	256	232	8	0.02	<0.002	8.3	0.2	B
4	Veeranam	Nil	7.8	288	12	0.17	0.01	220	540	89.0	<1	92	34	64	5.6	1.7	96	60	36	20.0	23	248	192	96	0.04	<0.002	4.3	1.0	E
5	Poondi	6.7	8.2	723	2	<1	<0.05	<1.8	78	1.7	<1	280	72	8	<2	<2	270	48	36	59.0	264	418	290	12	0.04	<0.001	7.8	<0.1	B
6	Red Hills	6.5	8.2	420	2	<1	<0.05	<1.8	92	2.5	<1	130	42	16	<2	<2	200	72	5	82	152	244	172	8	<0.5	<0.001	4.6	<0.1	B
7	Porur	6.5	8.2	884	2	<1	<0.05	<1.8	61	1.7	<1	92	165	16	<2	<2	240	56	24	74	210	512	284	10	0	<0.001	12.0	<0.1	B
8	Pulicate	6.4	8.3	40330	2	<1	<0.05	<1.8	68	5.7	<1	180	17800	48	2.8	<2	1300	344	106	1445	5760	31004	24726	10	<0.5	<0.001	27.6	<0.1	B

*CPCB-GEMS / MINARS Water Quality Criteria

mg/L-milligram per liter

DBU Class-Designated Best Use

mg/L-milligram per liter

A - Drinking Water Source without conventional treatment but after disinfection

B - Outdoor bathing (organised)

C - Drinking water source after conventional treatment and disinfection

D-Propagation of wild life and fisheries

E -Irrigation, Industrial cooling,controlled waste disposal

Below E Not meeting A,B,C,D & E Criteria