

ANNEXURE-VIII-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME) 2019 - 2020

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	5.80	7.60	353	2.0	0.31	0.260	38	118	14.1	10.0	133	35	16	2.0	0.9	126	46	38	16	24.9	247	230	17	0.15	<0.002	3.04	0.48	B
2	Pallipalayam	6.09	7.61	465	2.7	0.15	0.090	291	691	16.5	13.8	146	59	25	3.4	1.5	134	53	44	14	43.0	333	284	24	0.30	<0.002	4.30	0.49	B
3	Musiri Borewell	6.70	8.03	406	<2	0.0	0.006	<1.8	2	13.0	12.0	152	42	16	2.2	1.1	148	72	76	6	32.0	280	264	20	0.1	<0.002	5.2	1.26	A
4	Musiri Ferrygate	6.58	7.73	585	<2	0.93	0.155	177	488	14.0	21.0	160	89	21	3.6	1.2	241	149	92	29	40.0	415	392	19	0.1	<0.002	5.1	0.87	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 2019 - 2020)

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	6.63	6.94	197	<2	0.150	0.100	35	103	58	<1	70	25	11.0	2.05	0.79	66	29	23	5.00	13	149	136	54	0.110	<0.002	2.2	0.490	B
2	Sirumugai	6.50	6.88	228	<2	0.390	0.010	58	144	76	<1	69	18	11.0	2.15	0.93	65	27	25	5	14	137	124	74	0.170	<0.002	2.7	0.570	B
3	Bhavani sagar	6.07	7.29	194	<2	0.100	0.050	36	107	9	<1	81	18	11	3	1.10	64	32	22	7	13	150	136	13	0.200	<0.002	2.7	0.460	B
4	Bhavani	6.06	7.70	459.4	2	0.310	0.230	105	280	13.3	17	155.6	52	15	3.13	1.40	158	66	52	22	41	331	311	18	0.2	<0.002	4.5	0.550	B
5	R.N. Pudur	5.39	7.60	476	4	0.220	0.200	160.2	401	9.7	9	158	55	30	4	2.00	135	48	50	10	48	332	300	17	0.160	<0.002	4.7	0.610	D
6	Vairapalayam	5.76	7.84	458	3	0.271	0.036	170	418	9.49	7.3	161.6	59	25	3.17	1.37	143	57	51	12	47	332	304	31	0.196	<0.002	4.8	0.702	B
7	P. Velur	6.49	7.88	568	<2	0.230	0.090	146	355	16	11	172	79	15	2.8	1.26	164	57	65	25	60	384	362	20	0.310	<0.002	5.4	0.590	B
8	Mohanur	6.22	7.87	643.8	<2	0.250	0.060	151	375	15.9	13	174	92	16	2.85	1.31	196	69	82	29	69	447	423	20	0.3	<0.002	6.7	0.980	B
9	Madathukulam	5.88	7.25	332	<2	0.328	0.011	34	88	13.5	10	103.6	44.9	14	2.3	1.00	73	65	44	20	22	238	222	21	0.146	<0.002	2.7	0.709	B
10	Thirumukkudal	6.32	8.00	674	<2	0.220	0.010	127	311	12	16	180	103	16	3.2	1.22	193	72	74	29	79	470	4447	20	0.290	<0.002	6.9	0.990	B
11	Trichy U/S	6.44	7.82	406	<2	0.760	0.070	227	648	8.7	10.7	143	49	19	2.69	1.23	156.8	76.0	80.0	13.9	36.0	324.8	304.0	11.0	0.120	<0.002	5.4	1.040	B
12	Trichy D/S	5.80	7.34	483	2	0.920	0.390	315	798	23	9.33	158	62.6	21	3.78	1.68	169.0	77.6	92.0	20.0	44.6	355.0	333.6	29.6	0.290	<0.002	6.3	1.100	B
13	Grand Anaicut	5.70	7.50	456	2.2	0.880	0.220	108.1	292	13.9	12	152	55.8	19	4.26	1.90	155.6	79.0	76.0	14.0	40.0	337.6	317.6	17.6	0.210	<0.002	5.8	0.940	B
14	Coleroon	5.90	7.85	25912	<2	0.412	0.033	70	190	22	18	145	7302	85	6	3	2605	298	1370	905	3339	16872	16747	26	0.289	<0.002	108	1.940	B
15	Pitchavaram	6.20	7.50	3245	2	0.200	0.300	134.7	331	24	11.5	234.7	1033	35	5	2.2	487.7	103.0	113.7	129.0	485.0	2153.7	2105.7	30.0	1.000	<0.002	30.6	0.600	B
16	Karunthattankudi	6.16	7.85	441	3.2	0.759	0.045	160	390	23.0	12.0	149.0	52.0	24.0	3.5	1.7	144.0	74.0	70.0	19.0	39.0	317.0	395.0	30.0	0.122	<0.002	5.20	0.49	B

*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) 2019 - 2020

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	6.32	7.54	421	<2	0.12	0.180	256	633	15	12	148	49	17	3	1	133	48	46	13	38	298	276	19	0.24	<0.002	4.2	0.64	B
2	Urrachikottai	6.42	7.99	378	<2	0.16	0.139	76	197	8	18	145	36	15	3	1	136	52	51	14	28	273	255	13	0.18	<0.002	3.5	0.76	B
3	Chirampalayam	6.55	7.59	374	<2	0.21	0.263	147	418	14	5	142	41	17	3	1	126	50	42	11	29	269	249	17	0.17	<0.002	3.6	0.45	B
4	Pugalur	6.45	8.00	636	<2	0.20	0.056	125	312	15	15	169	89	17	3	1	194	69	65	32	67	441	419	17	0.31	<0.002	6.5	0.90	B
5	Pettavaithalai	6.24	7.92	485	<2	0.70	0.043	196	514	10	15	171	63	16	2	1	177	90	107	21	45	363	342	14	0.19	<0.002	6.1	1.16	B
6	Kumbakonam	6.28	7.93	355	2	0.93	0.022	130	344	15	9	136	41	19	3	1	130	68	62	12	29	268	247	20	0.18	<0.002	4.2	0.33	B
7	Mayiladurai	5.94	7.65	578	<2	1.16	0.1648	67	135	9	21	206	66	14	3	1	194	78	75	14	58	409	390	14	0.094	<0.002	6.2	0.85	B
8	Sathiyamanagalam	6.12	7.37	226	<2	0.15	0.083	29	81	16	<1	90	23	14	2	1	81	36	29	10	16	177	162	14	0.21	<0.002	3.4	0.54	B
9	Kalingalrayan Canal (B5)	6.50	7.84	388	<2	0.17	0.017	76	167	14	6	148	38	16	3	1	147	58	65	19	27	286	266	19	0.22	<0.002	3.7	0.62	B
10	Kalingalrayan Canal (B10)	6.35	7.91	394	<2	0.16	0.017	69	181	12	12	154	39	15	3	1	146	65	24	19	28	290	271	19	0.19	<0.002	3.7	0.66	B
11	Thirumanimuthar (Borewell)	6.08	7.49	4927	4	3.17	0.428	7009	14187	9	42	443	1442	58	4	2	1209	344	404	109	438	2812	3178	551	2.00	<0.002	17.0	1.58	D
13	Vasista (Borewell)	5.85	7.42	3944	<2	1.30	0.519	362	794	8	16	592	912	47	4	2	1050	250	566	148	379	2536	2473	17	1.00	<0.002	13.0	1.39	B
15	Sarabanga	6.35	8.08	2890	18	5.0	9.00	5675	9362	9	37	585	479	95	8	5	303	82	118	208	487	1892	1777	24	1.00	<0.002	30.0	0.92	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) 2019 - 2020

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	Papanasam	7.09	6.59	47	2	0.431	0.028	3	13	2.26	<1	8.9	11.5	16	<0.56	<0.28	10	3	0.79	1.72	1.7	31.6	28	3.16	<0.15	<0.002	0.7	<0.01	A
2	Cheranmadevi	7.09	6.43	77	2	0.533	0.039	14	42	3.6	<1	18	14.9	23	<0.56	<0.28	22	6.7	1.2	4.2	2.6	50	43	5.5	<0.15	<0.002	0.7	<0.01	A
3	Kokirakulam	6.01	6.52	112	3	0.586	0.084	29	92	3.2	<1	29	16	29	<0.56	<0.28	26	8	1.34	4	4.9	79	71	7.6	<0.15	<0.002	1.8	<0.01	B
4	Murapanadu	6.88	6.62	195	2.5	0.571	0.036	31	92	2.8	<1	46	35	36	1.73	0.28	73	22	5.2	19	12	124	117	7.3	<0.15	<0.002	2.3	<0.01	B
5	Thiruvidadimarudur	6.83	6.43	56	2.5	0.541	0.037	9	29	2.67	<1	13.3	12.4	21	0.56	<0.28	16	5.9	1	2.25	1.8	36	31.5	4.5	<0.15	<0.002	0.5	<0.01	A
6	Ambasamudram	7.11	6.49	49	2	0.376	0.039	6	21	2.9	<1	10.9	11	15	0.39	<0.56	11	3.2	0.73	1.9	1.4	31.6	28	3	<0.15	<0.002	0.5	<0.01	A
7	Author	6.27	6.62	597	3	0.465	0.143	32	96	5	<1	102	129	46	4	0.56	148	47	7.4	44.5	56	383	371	11	<0.15	<0.002	7.4	<0.01	B
8	Eral	5.62	6.69	311	3	0.71	0.109	47	123	6.8	<1	67	55	42	3	<0.28	107	34	6.5	16	25	200	190	8	<0.15	<0.002	3.8	<0.01	B
9	Kallidai Kurichi	7.12	6.46	51	2	0.515	0.049	7	23	2.96	<1	13	13.6	19	0.39	<0.28	13.6	4	0.85	1.8	0.7	33.8	30	3.5	<0.15	<0.002	0.5	<0.01	A
10	Srivaikuntam	6.45	6.72	293	3	1.73	0.058	36	107	2.5	<1	71	47	41	2	0.28	93	27	7.21	20.5	24	181	173	7.8	<0.15	<0.002	2.8	<0.01	B
11	Vellakovil	5.53	6.50	121	2.4	0.708	0.059	20	62	3	<1	31	19	29	1.15	<0.28	37	12	1.6	4.94	6	78	71.5	6.3	<0.15	<0.002	1.5	<0.01	B
12	Sivalaperi	5.65	6.58	184	3	0.72	0.092	29	88	3	<1	38	27	35	2	<0.28	59	20	3	8	12	117	109	8	<0.15	<0.002	1.7	<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) 2019 - 2020

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	5.95	7.48	854	4	0.97	<0.2	2	4	0.495	1.00	280.00	136.00	40.00	3.60	<0.56	196	38	25	25	68	482	474	8.00	2.00	0.03	13.00	<0.01	C
2	Palar	5.90	7.60	1120	2	0.50	<0.05	18	40	1.6	<1	377	112	46	5	2.6	241	29	40.5	127	225	780	551	8.5	1	<0.001	7	<0.1	A

*CPCB-GEMS / MINARS Water Quality Criteria

MPN-Most Probable Number

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 -XI

LAKE WATER QUALITY(UNDER MINARS PROGRAMME) 2019 - 2020

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	Udhagamandalam	4.10	7.10	438	6.1	1.1	3.1	296	256	30.0	<1	134	50	43	6.5	3.0	134	68.6	33.6	6.8	31.0	314	248	35	0.500	<0.002	16.5	1.2	D
2	Kodaikanal	6.55	6.93	115	3.6	1.0	0.1	52	76	0.6	<1	43	21	39	5.3	3.5	32	10.0	1.9	2.8	10.0	66	58	8	0.160	0.030	0.1	0.18	C
3	Yercaud	6.20	7.30	400	2.4	0.7	0.2	250	623	17	<1	128	57	23	3.4	2.0	117	59.0	31	4.0	31.0	289	265	25	0.100	<0.002	10.0	0.4	B
4	Veeranam	5.68	8.07	495	4.0	0.2	0.5	87	231	44	13.0	138	69	26	3.8	1.7	128	46.5	48	19.5	67.8	354	325	43	0.120	<0.002	5.9	0.7	D
5	Poondi	6.11	7.59	592	4.5	1.86	<0.05	36	238	902	8.0	220	67	45	20	3	200	45.0	29	70.0	135.0	407	248	30	<0.5	<0.001	6.8	<0.1	D
6	Red Hills	5.70	7.60	988	5.5	<1	<0.05	163	516	5.2	<1	211	146	46	8.6	4	298	86.0	20.0	168.0	179.0	652	512	10	<0.5	<0.001	5.8	<0.1	D
7	Porur	6.35	7.86	1131	4.3	<1	1.8	170	965	5.2	<1	205	227	42	7.6	5.0	292	60.0	34.0	102.0	167.0	779	585	17	<0.5	<0.001	13.0	<0.1	D
8	Pulicate	5.40	7.76	75544	4.0	1.8	0.4	379	311	11.9	8.0	266	31391	197	7.4	6.8	6931	1276.0	817.0	2694.0	15176.0	57900	50269	21	0.1	<0.001	400.0	<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