

Results of Ambient Air Quality Monitoring

Sl.No	Location	Parameter & Unit	CPCB Standard	09.09.2020 (09.00 AM) to 10.09.2020 (09.00 AM)	10.09.2020 (09.30 AM) to 11.09.2020 (09.30 AM)
1	Lat: N 10° 51' 08.8012" Long: E 79° 50' 49.0668"	PM10 µg/m ³	100 µg/m ³	58.2	57.1
2		PM2.5 µg/m ³	60 µg/m ³	24.6	22.9
3		SO2 µg/m ³	80 µg/m ³	9.6	9.4
4		NO2 µg/m ³	80 µg/m ³	11.2	10.9
5		CO mg/m ³	4 mg/m ³	BDL*	BDL*
Sl.No	Location	Parameter & Unit	CPCB Standard	09.09.2020 (10.00 AM) to 10.09.2020 (10.00 AM)	10.09.2020 (10.30 AM) to 11.09.2020 (10.30 AM)
1	Lat: N 10° 50' 06.2628" Long: E 79° 50' 23.1006"	PM10 µg/m ³	100 µg/m ³	65.5	64.2
2		PM2.5 µg/m ³	60 µg/m ³	43.1	41.7
3		SO2 µg/m ³	80 µg/m ³	13.6	12.9
4		NO2 µg/m ³	80 µg/m ³	15.2	14.6
5		CO mg/m ³	4 mg/m ³	BDL*	BDL*
Sl.No	Location	Parameter & Unit	CPCB Standard	09.09.2020 (10.30 AM) to 10.09.2020 (10.30 AM)	10.09.2020 (11.00 AM) to 11.09.2020 (11.00 AM)
1	Lat: N 10° 49' 17.0292" Long: E 79° 50' 23.7228"	PM10 µg/m ³	100 µg/m ³	62.9	64.2
2		PM2.5 µg/m ³	60 µg/m ³	35.9	35.4
3		SO2 µg/m ³	80 µg/m ³	15.3	15.1
4		NO2 µg/m ³	80 µg/m ³	16.5	16.2
5		CO mg/m ³	4 mg/m ³	BDL*	BDL*
Sl.No	Location	Parameter & Unit	CPCB Standard	09.09.2020 (11.00 AM) to 10.09.2020 (11.00 AM)	10.09.2020 (11.30 AM) to 11.09.2020 (11.30 AM)
1	Lat: N 10° 49' 20.5860" Long: E 79° 50' 46.5684"	PM10 µg/m ³	100 µg/m ³	39.8	40.2
2		PM2.5 µg/m ³	60 µg/m ³	21.6	22.4
3		SO2 µg/m ³	80 µg/m ³	10.3	10.2
4		NO2 µg/m ³	80 µg/m ³	12.6	11.9
5		CO mg/m ³	4 mg/m ³	BDL*	BDL*

Karaikal Port Private Limited 3rd Party Harbour Basin Marine Water Results Sep-20			
Characteristics Test	Unit	Protocol	Results
Date of Sampling			10.09.2020
Latitude:			N 10°50'8.6784"
Longitude:			E 79°50'58.8624"
Salinity	%	By Argentometric Titration	3.73
pH @ 25°C	-	IS:3025 Part 11-1983 (Reaff:2017)	7.85
Temperature	°C	IS:3025 Part 9-1984 (Reaff:2017)	28
Electrical Conductivity	µmhos/cm	IS:3025 Part 14- 2013	66900
Turbidity	NTU	IS:3025 Part 10-1984 (Reaff:2017)	2.3
Total Suspended Solids	mg/l	IS:3025 Part 17-1984 (Reaff:2017)	16
Total Dissolved Solids	mg/l	IS:3025 Part 16-1984(Reaff:2017)	48032
Dissolved Oxygen	mg/l	IS:3025 Part 38-1989 (Reaff:2014)	6.8
BOD @ 27°C for 3 days	mg/l	IS:3025 Part 44-1993 (Reaff:2014)	4
COD	mg/l	IS:3025 Part 58-2006 (Reaff:2017)	15
Chloride as Cl	mg/l	IS:3025 Part 32-1988 (Reaff:2014)	22438
Sulphate as SO ₄	mg/l	IS:3025 Part 24-1986 (Reaff:2014)	2365
Sodium as Na	mg/l	IS:3025 Part 45 - 1993 (Reaff:2014)	10440
Calcium as Ca	mg/l	IS:3025 Part 40-1991 (Reaff:2014)	465
Magnesium as Mg	mg/l	IS:3025 Part 46-1994 (Reaff:2014)	1341
Potassium as K	mg/l	IS:3025 Part 45 -1993(Reaff:2014)	420
Oil & Grease	mg/l	IS:3025 Part 39-1991 (Reaff:2014)	BDL
Iron as Fe	mg/l	IS:3025 Part 53:2003 (Reaff:2014)	0.08
Zinc as Zn	mg/l	IS:3025 Part 2-2004 (Reaff:2014)	BDL
Manganese as Mn	mg/l	IS:3025 Part 2:2004 (Reaff:2014)	BDL
Cadmium as Cd	mg/l	IS:3025 Part 2-2004 (Reaff:2014)	BDL
Chromium as Cr	mg/l	IS:3025 Part 2-2004 (Reaff:2014)	BDL
Mercury Hg	mg/l	IS:3025 Part 48 -1994(Reaff:2014)	BDL
Nitrite as NO ₂	mg/l	IS:3025 Part 34-1988 (Reaff:2014)	BDL
Nitrate as NO ₃	mg/l	IS:3025 Part 34-1988 (Reaff:2014)	9.80
Free Ammonia NH ₃	mg/l	IS:3025 Part 34-1988 (Reaff:2014)	BDL
Total Kjeldahi Nitrogen	mg/l	IS:3025 Part 34-1988 (Reaff:2014)	BDL
Inorganic Phosphate	mg/l	IS:3025 Part 31-1988 (Reaff:2014)	BDL
Total Phosphate	mg/l	IS:3025 Part 31-1988 (Reaff:2014)	BDL
Silica as SiO ₂	mg/l	IS:3025 Part 35-1988(Reaff:2014)	0.37
Total Coliform	MPN/100ml	APHA 23 rd Edn 2017:9221 B	240
Faecal Coliforms	MPN/100ml	APHA 23 rd Edn 2017:9221 E	< 1.8

PHYTOPLANKTON			
Total Cell Count	Nollit		28,200
Total Geneus	Nos		8
Geneus			Anabena
			Dianophysis
			Leptocylindrus
			Scillatoros
			Triceratium sp
			Bacillaria sp
			Cyclotella sp
			Protoperidinim sp
ZOOPLANKTON			
Total Cell Count	Nollit		24,100
Total Geneus	Nos		5
Geneus			Protozoa
			Arrow worm
			Acartia
			Rotifera
			Oithonasp
ZOOPLANKTON			
Population	No.m ³		26,900
Faunal Groups	Nos		5
Major Groups			Copepod nauplii
			Crab zoea
			Protozoa
			Fish eggs
			Polychaete larvae

Noise Quality Monitoring Report				
Month		Sep-20		
Date of Sampling		09.09.2020 to 10.09.2020		
S.No	Time	1.Leq dB(A)	2 Leq dB(A)	3.Leq dB(A)
1	07.00 AM	46.2	47.2	47.2
2	8	46.9	48.8	49.6
3	9	48.1	49.3	51.3
4	10	48.3	49.6	52.8
5	11	48.6	50.1	51.7
6	12.00 PM	48.2	50.3	50.2
7	1	47.8	49.7	49.8
8	2	47.5	49.2	50.1
9	3	48.1	49.8	50.9
10	4	48.3	50.2	51.4
11	5	48	50.4	51.9
12	6	47.5	49.6	52.7
13	7	47.1	49.5	53.5
14	8	46.9	48.9	52.5
15	9	46.2	48.2	51.6
16	10	46.8	47.8	51.2
17	11	45.2	47.1	49.5
18	12.00 AM	45.1	46.5	46.3
19	1	44.8	46.8	45.2
20	2	44.6	45.9	44.7
21	3	44.7	45.5	44.1
22	4	44.9	45.2	44.3
23	5	45.2	45.1	45.8
24	6	45.8	46.5	47.1

Note: As per the ministry of environment and forest vide gazette notification dated 14 th			
S.No	Category of Area	Day Time dB(A)	Night Time dB(A)
1	Industrial	75	70
2	Commercial	65	55
3	Residential	55	45