

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
OA No. 191/2024

Between

Yelahanka Puttenahalli Lake and
Bird Conservation Trust

...Appellant

And

State of Karnataka
& Ors

...Respondents

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Place : Bangalore
Date : 29.01.2026



Advocate for Respondent No. 5
A. Mahesh Chowdhary

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
OA No. 191/2024

Between

Yelahanka Puttenahalli Lake and
Bird Conservation Trust

...Appellant

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Memo

The Counsel for the Respondent No. 5 most humbly submits that this Hon'ble Tribunal on 25.11.2025 had directed all the concerned departments to coordinate and complete the project at the earliest to avoid further damage to the lakes. Further, the Member Secretary of the Karnataka State Pollution Control Board was directed to monitor the progress and file a report at each hearing. In light of the order dated 25.11.2025, the report dated 22.01.2026 is enclosed as **Document No.1** and the same may kindly be taken on record in the interest of justice and equity.

Place : Bangalore
Date : 29.01.2026



Advocate for Respondent No. 5

A. Mahesh Chowdhary

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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ Karnataka State Pollution Control Board

“ಪರಿಸರ ಭವನ”, 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ
“Parisara Bhavan”, 1st to 5th Floor, # 49, Church Street, Bangalore - 560 001, Karnataka State, India

PCB/45/Infra/NGT/2024/ 4472

Date: 22 JAN 2026

Inspection Note of Sri. R. Gokul, IFS, Member Secretary, KSPCB, Bangalore

Inspection of the Lake and its location	Yelahanka - Puttenahalli Lake Yelahanka- Doddaballapura Road, Bengaluru
Officers accompanied	1) Sri.Anil Kumar.M., Zonal Senior Environmental Officer, ZO- Bengaluru North. 2) Sri.Yogananda.J.N., Environmental officer, RO-Yelahanka (Byatarayanapura)
Date of Inspection	17.01.2026
Reference	NGT O.A .No.191 of 2024(SZ) filed by Puttenahalli Lake and Bird Conservation Trust between State of Karnataka and others, orders dtd.25.11.2025.

Preamble:

1. Puttenahalli Lake is located in the Yelahanka- Doddaballapura Road at a distance of about 5 to 6 KM from National Highway-7(Airport road) and about 14 to 15 KM North from Bengaluru city. The total extent of the lake is about 14.98 hectares. Puttenahalli Lake is one of the oldest lake of Bengaluru city and is known for its Biodiversity. This lake is also home for Birds breeding which all come from various far off places for breeding activities.
2. Previously, the Lake was maintained by Lake Development Authority (LDA), as this Lake is home for many birds coming from various places for breeding. The Lake water was polluted due to entry of untreated sewage from surrounding area (i.e.Vinayaka layout, Anathpura Layout, Kenchenahalli on North Side and Yelahanka new town in south). Hence the Lake is taken over by the Forest Department, GoK from LDA for rejuvenation and restoration of Lake and converted the said Lake into Bird Conservatory Lake. The Forest department had taken all the measures to stop the entry of Sewage from the surrounding areas.

3. The Lake is located at GPS location of Latt: 13.11176N, Long: 77.57791E.
4. The Lake is under custodian of Forest Department, Govt of Karnataka.
5. The Lake is surrounded by Residential apartment/ houses/villas and commercial buildings.
6. Meanwhile, Yelahanka Puttenahalli Lake and Bird Conservation trust filed OA No. 191 of 2024(SZ) v/s The State of Karnataka & Other at NGT.

Further, Hon'ble NGT (SZ) ordered on hearing 25.11.2025 that, as the matter is of utmost importance and is being delayed, directed the Member Secretary of the KSPCB who is already a party, to monitor the progress and file a report at each hearing until completion of the entire work before the next hearing on 30.01.2026.

In view of the Hon'ble (SZ) order dtd.25.11.2025, Puttenahalli lake was inspected on 17.01.2026 and the details for the Hon'ble NGT(SZ) order and observations made are detailed below:

Sl.No	Hon'ble NGT(SZ) Order	Specific Observations made for each of the direction
1.	Our earlier order dated 29.08.2025 had recorded that, out of 600 meters of hume pipe laying, an extent of 475 meters had already been completed. It was also recorded that the work was expected to be completed by the end of September 2025.	Laying of 600 mtr hume pipe for a length of about 600 meters has been completed.
2.	However, in the report of the Bengaluru Water Supply and Sewerage Board (BWSSB) dated 24.11.2025, it is stated that the team surveyed the entire 12.6-Kilometer Puttenahalli catchment area and that the design of the network is under progress. It is further stated that the work will be completed within 4 to 5 months, thereby arresting the entry of sewage.	Pipeline for carrying sewage from North-West to North East direction of Puttenahalli Lake has been completed by BWSSB but yet to be connected with lateral lines as the work pertaining to providing lateral line is under progress.
3.	The report further states that the pipeline-laying work of 600 meters out of 600 meters has been completed and that, out of 15 manholes, 12 have already been completed, with only 3 manholes remaining, which are	BWSSB has laid a pipeline of 600 m for carrying sewage from North-West to North East direction of Puttenahalli Lake including 15 numbers manholes.

	stated to be completed within 10 to 15 days.	
4.	Meanwhile, the lateral network, which is required to connect to the main sewage line, is yet to be addressed by the BWSSB, though it is stated to be underway. Once the said lateral network connection is provided, the work will be completed.	The lateral network required to connect to the main sewer line is not completed. Additional Chief Engineer, BWSSB project-1 informed that, the work pertains to establishment of lateral line will be completed before monsoon.
5.	The BWSSB has been providing timelines for completion in a piecemeal manner. While laying the main pipeline, the lateral pipelines should also have been laid and the issues ought to have been addressed comprehensively.	As noticed the work pertaining to main sewer line is completed and Additional Chief Engineer, BWSSB project-1 informed that, the work pertaining to establishment of lateral line will be completed within 5-6 months.
6.	Once again, we point out that, until the work is completed and the sewage network is fully functional, none of the authorities have explained as to how the sewage generated on a daily basis is being managed. Admittedly, these residences are located upstream.	<p>Puttenahalli Lake catchment area covers following area:-</p> <ol style="list-style-type: none"> 1. Downstream of Attur lake towards western direction. 2. Downstream area of Veerasagara lake having number of private residential layout, Attur Layout, MPI Layout, part of Yalahanka new town towards South western and southern direction. 3. Ananthapura area with number of private layouts towards north western direction. 4. Ramanashree Colifornia Garden towards northern direction. <p>In these areas particularly in Ramagondanahalli Village, sewage is being disposed to septic tank and only sullage is being discharged to road side drain which ultimately joins nearby nalas.</p> <p>There are three main feeder nala to the Puttenahalli lake:-</p> <ol style="list-style-type: none"> a. One nala from south west area of Puttenahalli Lake carries sullage mixed with sewage from missing links and private residential area. The entire feeder nala is diverted with a vent to lake to the downstream area of the puttenahalli lake through diversion

		<p>nala provided by BBMP.</p> <p>b. Another Nala from downstream of the Attur lake carries sullage mixed with sewage from north west direction of the puttenahalli lake which partly enters to wet land area of the puttenahalli lake from western side and part towards nala on northern side of the lake.</p> <p>c. Nala towards northern side of the lake (falls under 110 villages) carries sullage mixed with sewage from the missing links. BWSSB has taken up UGD work in 2nd phase to cover missing links. However sullage from Ramagondanhalli village with sullage mixed with sewage from downstream area of ramagondanahalli village with considerable volume is entering the lake through this Nala.</p>
7.	<p>The learned counsel appearing for the applicant has produced photographs and filed an additional report stating that Puttenahalli Lake is saturated with sewage.</p>	<p>KSPCB is monitoring the lake water quality on monthly basis and the water quality class is "D" in most of the cases and only in 2 months water quality class is "E", the analysis reports are enclosed as Annexure-1.</p> <p>During inspection, the water samples collected from (i) storm water drain which joining the Puttenahalli lake at North side (ii) water flowing from puttenahalli lake to natural nalla i.e. at weir point of lake at North-East side and (iii) water flowing in diversion channel from south west to north east which joining the natural nalla and the samples are handed over to the KSPCB Central Environmental Laboratory for analysis. The reports received from laboratory shows that the quality of water of all the collected samples falls under Class 'E' which is enclosed as Annexure 2.</p> <p>Now the entire lake has been covered with water hyacinth, which is an indication of nutrient influx in to the lake. Photographs are enclosed herewith as Annexure-3.</p>

8.	The learned counsel appearing for the BBMP also submitted that the existing sewage treatment facility at the end of Yelahanka Lake is insufficient and that a new sewage treatment plant is under construction.	The BWSSB authorities are constructing 6 MLD STP in the downstream of Puttenahalli lake and around 85 % of the civil work is completed and it will be completed by another 4 to 5 months period as informed by BWSSB authorities.
9.	In such circumstances, it would be appropriate for all the concerned departments to coordinate and complete the project at the earliest to avoid further damage to the lakes. From the photographs filed by the applicant, it appears that even if sewage treatment is addressed, rejuvenation of the lakes would be next to impossible.	Since BWSSB requires 5 to 6 months to complete the pending work to link sewage to UGD system and as the main sewer work is completed, the sullage mixed with sewage which is entering into the lake may be conveyed through the newly established BWSSB main sewer line, as a temporary measure to avoid the nutrient influx to the lake and help to take up lake rejuvenation work.


Member Secretary
KSPCB, Bangalore

Ph : 080-23238458



Anexure-I

Website: kspcb.karnataka.gov.in
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thinnalah Road,
Sivvanagar,
Bengaluru - 560079

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಅಧೀನದಲ್ಲಿ
ಪ್ರವರ್ತಿಸಲ್ಪಡುತ್ತಿರುವ
ಪರಿಸರ ಸ್ವಚ್ಛತೆ ಮತ್ತು
ರಕ್ಷಣೆ ಇಲಾಖೆ
ಬೆಂಗಳೂರು-560079

**KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY**
MoEF RECOGNISED ENVIRONMENTAL LABORATORY
ISO 45001:2018 CERTIFIED LABORATORY
TEST REPORT

Date : 20-05-2025

Page 1 of 2

1	Station code	3624				Type of Water Body	Lake	
2	Date & time of Sample taken	Date	08-04-2025	Time	02.40PM	SAMPLE COLLECTED BY : Sri.Raghavendra G, AEO RO: Yelahanka		
3	Name of Monitoring Station	Puttenahalli Lake						
4	Temperature	30°C						
5	Visible Effluent Discharge in Proximity	None ✓	Moderate	High	Municipal Sewage	Completed by	Scientific Assistant	
6	Weather	Cloudy	Clear ✓	Windy	Raining	Verified by:	Deputy Scientific Officer	
7	Depth of water body (meter)	< 50 cm	50-100cm✓	>100 cm	Flood	Agency:	Karnataka	
8	Human Activities	Cattle Wading	Melon Farming	Fishing	Other ✓	Date of commencement of test	09-04-2025	
9	Colour	Clear	Light Green	Hazy	Light ✓ Brown	Date of completion of	21-04-2025	
10	Odour	None	Fishy✓	H ₂ S	Odour free	Report No.	WR-102	
11	Particulars of sample collected	Lake Water Sample Lat:13.1115075,Long:77.570980				Sample No.	W-102	

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.1	IS 3025 : Part 11: 2022
2	Conductivity	µS/cm	-	-	-	-	-	2250	1040 IS 3025 : Part 14: 2023
3	Total Coliform	MPN /100ml	50	500	5000	-	-	2800	APHA (24th edition) 9221 A, B, C: 2023
4	Fecal Coliform	MPN /100ml	-	-	-	-	-	240	APHA (24th edition) 9221 E: 2023
5	Dissolved Oxygen	mg/L	6	5	4	4	-	5.8	IS 3025 : Part 38: 2019
6	Biochemical oxygen demand	mg/L	2	3	3	-	-	7.0	IS 3025 : Part 44 : 2023
7	Chemical oxygen demand (COD)	mg/L	-	-	-	-	-	73	IS 3025 : Part 58: 2023
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 24th edition 2023; 4500-B :2023
9	Nitrate Nitrogen as N	mg/L	-	-	-	-	-	3.9	APHA 24th Edition. 2023 (4500 NO3-D) : 2023
10	Nitrite as N	mg/L	-	-	-	-	-	0.30	IS 3025:Part 34:Sec 1:2023
11	Ammonia as N	mg/L	-	-	-	-	-	0.3	IS 3025:Part 34:Sec 1: 2023
12	Total Kjeldahl Nitrogen (TKN)	mg/L	-	-	-	-	-	0.4	IS 3025:Part 34:Sec 1: 2023
13	Total Kjeldahl Nitrogen (TKN)	mg/L	-	-	-	-	-	6.2	IS 3025 : Part 10: 2023
14	Turbidity	NTU	-	-	-	-	-	6.2	IS 3025 : Part 10: 2023
15	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	252	IS 3025 : Part 21: 2023
16	Calcium as CaCO ₃	mg/L	-	-	-	-	-	132	IS 3025 : Part 40: 2024
17	Calcium as Ca	mg/L	-	-	-	-	-	53	IS 3025 : Part 40: 2024
18	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	120	IS 3025 : Part 46 : 2023
19	Magnesium as Mg	mg/L	-	-	-	-	-	29	IS 3025 : Part 46: 2023
20	Chloride as Cl	mg/L	-	-	-	-	-	160	IS 3025 : Part 32: 2019
20	Sodium as Na	mg/L	-	-	-	-	-	96	IS 3025 : Part 45: 2024

P.T.O

1	Station code	3624			Page 2 of 2	
2	Date & time of Sample taken	Date	08-04-2025	Time	02.40PM	Type of Water Body Lake
3	Name of Monitoring Station	Puttenahalli Lake				SAMPLE COLLECTED BY : Sri.Raghavendra G, AEO RO: Yelahanka
4	Temperature	30°C				
5	Date of commencement of test	09-04-2025				Report No. : WR- 102
6	Date of completion of test	21-04-2025				Sample No. : W- 102
7	Particulars of sample collected	Lake Water Sample Lat:13.1115075,Long:77.570980				

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
21	Potassium as K	mg/L	-	-	-	-	-	5.0	IS 3025 : Part 45: 2024
22	% Sodium	%	-	-	-	-	-	45	KSPCB-CEL-1 / SOP Percent Sodium/13/ 29.08.2013: 2013
23	Sulphate as SO ₄	mg/L	-	-	-	-	-	4.0	IS 3025 : Part 24 : Sec 1:2022
24	P- Alkalinity	mg/L	-	-	-	-	-	BDL	IS 3025 : Part 23: 2023
25	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	276	IS 3025 : Part 23: 2021
26	Sodium Absorption Ratio (SAR)	-	-	-	-	-	26	2.7	IS 11624: 2023
27	Free Ammonia as N	mg/L	-	-	-	1.2	-	BDL	CELKSPCB/SOP/20 : 2013
28	Bicarbonates (HCO ₃ ⁻)	mg/L	-	-	-	-	-	276	IS 3025(Part 23): 2019
29	Carbonate(CO ₃)	mg/L	-	-	-	-	-	BDL	IS 3025 : Part 23: 2023
30	Total Dissolved Solids	mg/L	-	-	-	-	-	708	IS 3025 : Part 16: 2023
31	Total Suspended solids	mg/L	-	-	-	-	-	8.0	IS 3025 : Part 17 : 2022
32	Total-Phosphate as P	mg/L	-	-	-	-	-	0.10	IS 3025 : Part 31 : Sec 1: 2022
33	Dissolved (Ortho) Phosphate as PO ₄	mg/L	-	-	-	-	-	0.3	IS 3025 : Part 31 : Sec 1: 2022
34	Fluoride as F	mg/L	-	-	-	-	-	0.2	IS 3025 : Part 60 : Sec 1 : 2023
35	Copper as Cu	mg/L	-	-	-	-	-	BDL	APHA 24th edition (3125B): 2023
36	Lead as Pb	mg/L	-	-	-	-	-	BDL	
37	Zinc as Zn	mg/L	-	-	-	-	-	BDL	
38	Nickel as Ni	mg/L	-	-	-	-	-	BDL	
39	Iron as Fe	mg/L	-	-	-	-	-	0.214	
40	Manganese as Mn	mg/L	-	-	-	-	-	0.017	
41	Cadmium as Cd	mg/L	-	-	-	-	-	BDL	
42	Total Chromium as Cr	mg/L	-	-	-	-	-	BDL	
INFERENCE		Class "D"- to prescribed standards with respect to Biochemical Oxygen Demand (3 days @ 27° C) as per Primary Water Quality Criteria – CPCB. Designated best use - Propagation of Wild Life, Fisheries .							

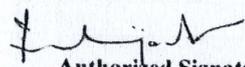
Note: 1. The above results pertain only to the sample tested.

2. The report shall not be reproduced without the written approval of the laboratory.

3. Samples will be stored for a period of 10 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L.

Boron as B:0.1;Free Ammonia as N:0.1 P- Alkalinity:1.0; Carbonate(CO₃):1.0;Copper as Cu:0.002; Lead as Pb:0.003;
Zinc as Zn:0.002;Nickel as Ni:0.002;Cadmium as Cd:0.002; Total Chromium as Cr:0.003.


Authorized Signatory
(Farhath Jabeen)
Deputy Scientific Officer

—End of Report—



TC-16112



KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

MoEP RECOGNISED ENVIRONMENTAL LABORATORY
ISO/IEC 17025:2017 accredited Testing Laboratory by NABL, vide Certificate Number TC-16112
ISO 45001:2018 CERTIFIED LABORATORY

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Website:
http://kspcb.karnataka.gov.in
978, 979, 9800, "2018" 2018",
7th '04' High, 2018, 04,
K. S. P. C. B., "Hiranga Bhavana"
7th D Cross, Thimmaiah Road,
Shivangar, Bengaluru-560079

TEST REPORT

Date: 13-06-2025

Page 1 of 2

1	Station code	3624				Page 1 of 2	
2	Date & time of Sample taken	Date	14-05-2025	Time	10.45 AM	Type of Water Body	Lake
3	Name of Monitoring Station	Puttenahalli Lake				SAMPLE COLLECTED BY : Sri. Raghavendra.G, AEO	
4	Temperature	28°C				RO: Yelahanka	
5	Visible Effluent Discharge in Proximity	None ✓	Moderate	High	Other	Completed by	Scientific Assistant
6	Weather	Cloudy	Clear ✓	Windy	Raining	Verified by:	Deputy Scientific Officer
7	Depth of water body (meter)	< 50 cm	50-100cm ✓	>100 cm	Flood	Agency:	Karnataka
8	Human Activities	Cattle Wading	Melon Farming	Fishing	Other ✓	Date of commencement of test	14-05-2025
9	Colour	Clear	Turbid	Green	Light Brown ✓	Date of completion of test	20-05-2025
10	Odour	None	Fishy ✓	H ₂ S	Odour Free	Report No.	WR-490
11	Particulars of sample collected	Lake Water Sample Lat : 13.1115075 N Long : 77.570980 E				Sample No.	W-490

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.0	IS 3025 (Part 11) : 2022
2	Conductivity	µS/cm	-	-	-	-	2250	720	IS 3025 (Part 14) : 2023
3	Total Coliform	MPN /100ml	50	500	5000	-	-	7000	APHA (24th edition) 9221 A, B, C: 2023
4	Fecal Coliform	MPN /100ml	-	-	-	-	-	2600	APHA (24th edition) 9221 E: 2023
5	Dissolved Oxygen	mg/L	6	5	4	4	-	5.4	IS 3025 (Part 38) : 2019
6	Biochemical oxygen demand	mg/L	2	3	3	-	-	7.0	IS 3025 (Part 44) : 2023
7	Chemical oxygen demand (COD)	mg/L	-	-	-	-	-	70	IS 3025 (Part 58) : 2023
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 24th edition 2023; 4500-B
9	Nitrate Nitrogen as N	mg/L	-	-	-	-	-	2.8	APHA 24th Edition 2023 (4500 NO3-D)
10	Nitrite as N	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 34/Sec 1) : 2023
11	Ammonia as N	NTU	-	-	-	-	-	0.40	IS 3025 (Part 34/Sec 1) : 2023
12	Total Kjeldahl Nitrogen (TKN)	mg/L	-	-	-	-	-	0.52	IS 3025 (Part 34/Sec 1) : 2023
13	Turbidity	mg/L	-	-	-	-	-	16.4	IS 3025 (Part 10) : 2023
14	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	136	IS 3025 (Part 21) : 2023

P.T.O

1	Station code	3624			Page 2 of 2	
2	Date & time of Sample taken	Date	14-05-2025	Time	10.45 AM	Type of Water Body Lake
3	Name of Monitoring Station	Puttenahalli Lake				SAMPLE COLLECTED BY: Sri. Raghavendra.G, AEO RO: Yelahanka
4	Temperature	28°C				
5	Date of commencement of test	14-05-2025				Report No. : WR-490
6	Date of completion of test	20-05-2025				Sample No. : W-490
7	Particulars of sample collected	Lake Water Sample Lat : 13.1115075 N Long : 77.570980 E				

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Calcium as CaCO ₃	mg/L	-	-	-	-	-	76	IS 3025 (Part 40) : 2024
16	Calcium as Ca	mg/L	-	-	-	-	-	30	IS 3025 (Part 40) : 2024
16	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	60	IS 3025 (Part 46) : 2023
17	Magnesium as Mg	mg/L	-	-	-	-	-	15	IS 3025 (Part 46) : 2023
8	Chloride as Cl	mg/L	-	-	-	-	-	100	IS 3025 (Part 32) : 2019
9	Sodium as Na	mg/L	-	-	-	-	-	80	IS 3025 (Part 45) : 2024
0	Potassium as K	mg/L	-	-	-	-	-	4.0	IS 3025 (Part 45) : 2024
1	% Sodium	%	-	-	-	-	-	55	KSPCB-CEL-1/SOP_Percent Sodium/13/29.08.2013
2	Sulphate as SO ₄	mg/L	-	-	-	-	-	10	IS 3025 (Part 24/Sec 1) : 2022
3	P- Alkalinity	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
4	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	168	IS 3025 (Part 23) : 2021
5	Sodium Absorption Ratio(SAR)	-	-	-	-	-	26	3.0	IS 11624: 2023
5	Free Ammonia as N	mg/L	-	-	-	1.2	-	BDL	CELKSPCB/SOP/20: 2013
7	Bicarbonates (HCO ₃ ⁻)	mg/L	-	-	-	-	-	168	IS 3025 (Part 23) : 2019
1	Carbonate(CO ₃)	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
1	Total Dissolved Solids	mg/L	-	-	-	-	-	488	IS 3025 (Part 16) : 2023
1	Total Suspended solids	mg/L	-	-	-	-	-	22	IS 3025 (Part 17) : 2022
1	Total-Phosphate as P	mg/L	-	-	-	-	-	0.1	IS 3025 (Part 31/Sec 1) : 2022
1	Dissolved (Ortho) Phosphate as PO ₄	mg/L	-	-	-	-	-	0.4	IS 3025 (Part 31/Sec 1) : 2022
1	Fluoride as F	mg/L	-	-	-	-	-	0.26	IS 3025 (Part 60/Sec 1) : 2023
INFERENCE		Class "D"- to prescribed standards with respect to Biochemical Oxygen Demand and Total Coliform as per Primary Water Quality Criteria – CPCB.							
		Designated best use - Propagation of Wild Life, Fisheries .							

- Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. BDL: Below Detection Level in mg/L.

Boron as B: 0.1; Nitrite as N:0.1; P- Alkalinity:1.0; Carbonate (CO3):1.0; Free Ammonia as N:0.1.

Radha M.N.
Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Farhath Jabeen
Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

—End of Report—



TC-16112



KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

MOEF RECOGNISED ENVIRONMENTAL LABORATORY
ISO/IEC 17025:2017 accredited Testing Laboratory by NABL, vide Certificate Number TC-16112
ISO 45001:2018 CERTIFIED LABORATORY

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7th 'A' Cross, 3rd Stage, 1st
Block, Bommalahalli-560079
K. S. P. C. B., "Nisarga Bhavana"
7th 'D' Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

TEST REPORT

Date: 18-07-2025

Page 1 of 2

1	Station code	3624				Page 1 of 2	
2	Date & time of Sample taken	Date	26-06-2025	Time	02.30PM	Type of Water Body	Lake
3	Name of Monitoring Station	Puttenuhalli Lake				SAMPLE COLLECTED BY : Smt.Puneetha H S, DEO RO: Yelahanka	
4	Temperature	29°C					
5	Visible Effluent Discharge in Proximity	None✓	Moderate	High	Municipal Sewage	Completed by	Scientific Assistant
6	Weather	Cloudy ✓	Clear	Windy	Winter	Verified by:	Deputy Scientific Officer
7	Depth of water body (meter)	< 50 cm	50-100cm✓	>100 cm	Flood	Agency:	Karnataka
8	Human Activities	Cattle Wading	Melon Farming	Fishing✓	Other	Date of commencement of test	26-06-2025
9	Colour	Clear ✓	Light Green	Dark Green	Brown	Date of completion of test	09-07-2025
10	Odour	None	Fishy✓	H ₂ S	Odour free	Report No.	WR-1085
11	Particulars of sample collected	Lake Water Sample Lat:13.1115075,Long:77.570980				Sample No.	W-1085

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	6.8	IS 3025 (Part 11) : 2022
2	Conductivity	µS/cm	-	-	-	-	2250	616	IS 3025 (Part 14) : 2023
3	Total Coliform	MPN /100ml	50	500	5000	-	-	1600	APHA (24th edition) 9221 A, B, C: 2023
4	Fecal Coliform	MPN /100ml	-	-	-	-	-	21	APHA (24th edition) 9221 E: 2023
5	Dissolved Oxygen	mg/L	6	5	4	4	-	6.6	IS 3025 (Part 38) : 2019
6	Biochemical oxygen demand	mg/L	2	3	3	-	-	4.0	IS 3025 (Part 44) : 2023
7	Chemical oxygen demand (COD)	mg/L	-	-	-	-	-	40	IS 3025 (Part 58) : 2023
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 24th edition 2023; 4500-B
9	Nitrate Nitrogen as N	mg/L	-	-	-	-	-	2.3	APHA 24th Edition 2023 (4500 NO3-D)
10	Nitrite as N	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 34/Sec 1) : 2023
11	Ammonia as N	mg/L	-	-	-	-	-	0.56	IS 3025 (Part 34/Sec 1) : 2023
12	Total Kjeldahl Nitrogen (TKN)	mg/L	-	-	-	-	-	0.62	IS 3025 (Part 34/Sec 1) : 2023
13	Turbidity	NTU	-	-	-	-	-	5.4	IS 3025 (Part 10) : 2023
14	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	160	IS 3025 (Part 21) : 2023
15	Calcium as CaCO ₃	mg/L	-	-	-	-	-	84	IS 3025 (Part 40) : 2024
16	Calcium as Ca	mg/L	-	-	-	-	-	34	IS 3025 (Part 40) : 2024
17	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	76	IS 3025 (Part 46) : 2023

P.T.O

1	Station code	3624				Page 2 of 2			
2	Date & time of Sample taken	Date	26-06-2025	Time	02.30PM	Type of Water Body	Lake		
3	Name of Monitoring Station	Puttenahalli Lake				SAMPLE COLLECTED BY : Smt.Puneetha H S, DEO RO: Yelahanka			
4	Temperature	29°C							
5	Date of commencement of test	26-06-2025				Report No. : WR-1085			
6	Date of completion of test	09-07-2025				Sample No. : W-1085			
7	Particulars of sample collected	Lake Water Sample Lat:13.1115075,Long:77.570980							
Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
18	Magnesium as Mg	mg/L	-	-	-	-	-	18	IS 3025 (Part 46) : 2023
19	Chloride as Cl	mg/L	-	-	-	-	-	96	IS 3025 (Part 32) : 2019
20	Sodium as Na	mg/L	-	-	-	-	-	60	IS 3025 (Part 45) : 2024
21	Potassium as K	mg/L	-	-	-	-	-	12	IS 3025 (Part 45) : 2024
22	% Sodium	%	-	-	-	-	-	43	KSPCB-CEL-1/SOP_Percent Sodium/13/29.08.2013
23	Sulphate as SO ₄	mg/L	-	-	-	-	-	24	IS 3025 (Part 24/Sec 1): 2022
24	P- Alkalinity	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
25	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	136	IS 3025 (Part 23) : 2021
26	Sodium Absorption Ratio(SAR)	-	-	-	-	-	26	2.06	IS 11624: 2023
27	Free Ammonia as N	mg/L	-	-	-	1.2	-	BDL	CELKSPCB/SOP/20: 2013
28	Bicarbonates (HCO ₃ ⁻)	mg/L	-	-	-	-	-	136	IS 3025 (Part 23) : 2019
29	Carbonate(CO ₃)	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
30	Total Dissolved Solids	mg/L	-	-	-	-	-	416	IS 3025 (Part 16) : 2023
31	Total Suspended solids	mg/L	-	-	-	-	-	8.0	IS 3025 (Part 17) : 2022
32	Total-Phosphate as P	mg/L	-	-	-	-	-	0.07	IS 3025 (Part 31/Sec 1) : 2022
33	Dissolved (Ortho)Phosphate as PO ₄	mg/L	-	-	-	-	-	0.21	IS 3025 (Part 31/Sec 1) : 2022
34	Fluoride as F	mg/L	-	-	-	-	-	0.28	IS 3025 (Part 60/Sec 1) : 2023
INFERENCE		Class "D"- to prescribed standards with respect to Biochemical oxygen demand as per Primary Water Quality Criteria – CPCB.							
		Designated best use - Propagation of Wild Life, Fisheries .							

Note: 1. The above results pertain only to the sample tested.

2. The report shall not be reproduced without the written approval of the laboratory.

3. Samples will be stored for a period of 10 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L.

Boron as B:0.1;Free Ammonia as N:0.1;P- Alkalinity:2.0;Carbonate(CO₃):2.0;Nitrite as N:0.05.

Radha.M.N
Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Sreetha.C
Authorized Signatory (Chemical)
(Sreetha C)
Assistant Scientific Officer

—End of Report—



TC-16112



KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

MoEF RECOGNISED ENVIRONMENTAL LABORATORY
ISO/IEC 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-16112
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ಕರ್ನಾಟಕ ಸರ್ಕಾರ, "ನಿಸರ್ಗ ಭವಾನ",
7ನೇ 'D' ಕ್ರಾಸ್, ಶಿವನಗರ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmiah Road,
Shivanagar, Bengaluru-560079

TEST REPORT

Date : 02-08-2025

1	Station code	3624			Page 1 of 2		
2	Date & time of Sample taken	Date	16-07-2025	Time	11.00AM	Type of Water Body	Lake
3	Name of Monitoring Station	Puttenahalli Lake			SAMPLE COLLECTED BY :		
4	Temperature	30°C			Sri.Ragavendra AEO RO: Yelahanka		
5	Visible Effluent Discharge in Proximity	None√	Moderate	High	Municipal Sewage	Completed by	Scientific Assistant
6	Weather	Cloudy	Clear√	Windy	Raining	Verified by:	Deputy Scientific Officer
7	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood	Agency:	Karnataka
8	Human Activities	Cattle Wading	Melon Farming	Fishing√	None	Date of commencement of test	17-07-2025
9	Colour	Clear	Light Green	Hazy	Light Brown√	Date of completion of test	24-07-2025
10	Odour	None	Soapy	H ₂ S	Fishy√	Report No.	WR-1367
11	Particulars of sample collected	Lake Water Sample Lat:13.1115075,Long:77.570980			Sample No.	W-1367	

Sl No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.0	IS 3025 (Part 11) : 2022
2	Conductivity	μS/cm	-	-	-	-	2250	495	IS 3025 (Part 14) : 2023
3	Total Coliform	MPN /100ml	50	500	5000	-	-	1600	APHA (24th edition) 9221 A, B, C: 2023
4	Fecal Coliform	MPN /100ml	-	-	-	-	-	26	APHA (24th edition) 9221 E: 2023
5	Dissolved Oxygen	mg/L	6	5	4	4	-	4.2	IS 3025 (Part 38) : 2019
6	Biochemical oxygen demand	mg/L	2	3	3	-	-	6.0	IS 3025 (Part 44) : 2023
7	Chemical oxygen demand (COD)	mg/L	-	-	-	-	-	60	IS 3025 (Part 58) : 2023
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 24th edition 2023; 4500-B
9	Nitrate Nitrogen as N	mg/L	-	-	-	-	-	1.90	APHA 24th Edition 2023 (4500 NO ₃ -D)
10	Nitrite as N	mg/L	-	-	-	-	-	0.14	IS 3025 (Part 34/Sec 1) : 2023
11	Ammonia as N	mg/L	-	-	-	-	-	0.20	IS 3025 (Part 34/Sec 1) : 2023
12	Total Kjeldahl Nitrogen (TKN)	mg/L	-	-	-	-	-	0.30	IS 3025 (Part 34/Sec 1) : 2023
13	Turbidity	NTU	-	-	-	-	-	12.5	IS 3025 (Part 10) : 2023
14	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	120	IS 3025 (Part 21) : 2023
15	Calcium as CaCO ₃	mg/L	-	-	-	-	-	82	IS 3025 (Part 40) : 2024
16	Calcium as Ca	mg/L	-	-	-	-	-	33	IS 3025 (Part 40) : 2024
17	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	38	IS 3025 (Part 46) : 2023

P.T.O

Station code		3624			Page 2 of 2				
Date & time of Sample taken		Date	16-07-2025	Time	11.00AM	Type of Water Body	Lake		
Name of Monitoring Station		Puttenahalli Lake			SAMPLE COLLECTED BY :				
Temperature		30°C			Sri.Ragavendra AEO				
Date of commencement of test		17-07-2025			RO: Yelahanka				
Date of completion of test		24-07-2025			Report No. : WR-1367				
Particulars of sample collected		Lake Water Sample			Sample No. : W-1367				
		Lat:13.1115075,Long:77.570980							
Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
18	Magnesium as Mg	mg/l.	-	-	-	-	-	9.0	IS 3025 (Part 46) : 2023
19	Chloride as Cl	mg/l.	-	-	-	-	-	104	IS 3025 (Part 32) : 2019
20	Sodium as Na	mg/l.	-	-	-	-	-	48	IS 3025 (Part 45) : 2024
21	Potassium as K	mg/l.	-	-	-	-	-	10	IS 3025 (Part 45) : 2024
22	% Sodium	%	-	-	-	-	-	44	KSPCB-CEL-1/SOP_Percent Sodium/13/29.08.2013
23	Sulphate as SO ₄	mg/l.	-	-	-	-	-	10	IS 3025 (Part 24/Sec 1): 2022
24	P- Alkalinity	mg/l.	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
25	Total Alkalinity as CaCO ₃	mg/l.	-	-	-	-	-	96	IS 3025 (Part 23) : 2021
26	Sodium Absorption Ratio (SAR)	-	-	-	-	-	26	1.91	IS 11624: 2023
27	Free Ammonia as N	mg/l.	-	-	-	1.2	-	BDL	CELKSPCB/SOP/20: 2013
28	Bicarbonates (HCO ₃ ⁻)	mg/l.	-	-	-	-	-	96	IS 3025 (Part 23) : 2019
29	Carbonate(CO ₃)	mg/l.	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
30	Total Dissolved Solids	mg/l.	-	-	-	-	-	338	IS 3025 (Part 16) : 2023
31	Total Suspended solids	mg/l.	-	-	-	-	-	18	IS 3025 (Part 17) : 2022
32	Total-Phosphate as P	mg/l.	-	-	-	-	-	0.21	IS 3025 (Part 31/Sec 1) : 2022
33	Dissolved (Ortho)Phosphate as PO ₄	mg/l.	-	-	-	-	-	0.54	IS 3025 (Part 31/Sec 1) : 2022
34	Fluoride as F	mg/l.	-	-	-	-	-	0.215	IS 3025 (Part 60/Sec 1) : 2023
INFERENCE		Class "D"- to prescribed standards with respect to Biochemical oxygen demand and Dissolved Oxygen as per Primary Water Quality Criteria – CPCB.							
		Designated best use - Propagation of Wild Life, Fisheries .							

Note: 1. The above results pertain only to the sample tested.

2. The report shall not be reproduced without the written approval of the laboratory.

3. Samples will be stored for a period of 10 days from the date of issue of report.

4. BDL: Below Detection Level in mg/l..

Boron as B:0.1;Free Ammonia as N:0.1;P- Alkalinity:2.0;Carbonate(CO₃):2.0.

Radha M.N.
Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Swetha C
Authorized Signatory (Chemical)
(Swetha C)
Assistant Scientific Officer



TC-16112



**KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY**

MoEF RECOGNISED ENVIRONMENTAL LABORATORY
ISO/IEC 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-16112
ISO 45001:2018 CERTIFIED LABORATORY

TEST REPORT

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7 ನೇ 'ಡಿ' ಅಡ್ಡರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

Date : 30-10-2025

Page 1 of 2

1	Station code	3624				Type of Water Body		Lake
2	Date & time of Sample taken	Date	10-09-2025	Time	12.30PM	Type of Water Body		Lake
3	Name of Monitoring Station	Puttenahalli Lake				SAMPLE COLLECTED BY :		
4	Temperature	26°C				Sri.Yogananda J N, EO RO:Yelahanka		
5	Visible Effluent Discharge in Proximity	None√	Industrial	High	Municipal Sewage	Completed by	Scientific Assistant	
6	Weather	Cloudy√	Clear	Windy	Raining	Verified by:	Deputy Scientific Officer	
7	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood	Agency:	Karnataka	
8	Human Activities	Cattle Wading	Melon Farming	Fishing	Other √	Date of commencement of test	10-09-2025	
9	Colour	Clear	Light Green	Hazy	Light Brown√	Date of completion of test	28-10-2025	
10	Odour	None	Fishy	H ₂ S	Odour free √	Report No.	WR-2269	
11	Particulars of sample collected	Lake Water Sample				Sample No.	W-2269	

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.0	IS 3025 (Part 11) : 2022
2	Conductivity	μS/cm	-	-	-	-	2250	567	IS 3025 (Part 14) : 2023
3	Total Coliform	MPN /100ml	50	500	5000	-	-	3500	APHA (24th edition) 9221 A, B, C: 2023
4	Fecal Coliform	MPN /100ml	-	-	-	-	-	240	APHA (24th edition) 9221 E: 2023
5	Dissolved Oxygen	mg/L	6	5	4	4	-	3.5	IS 3025 (Part 38) : 2019
6	Biochemical oxygen demand	mg/L	2	3	3	-	-	15	IS 3025 (Part 44) : 2023
7	Chemical oxygen demand (COD)	mg/L	-	-	-	-	-	98	IS 3025 (Part 58) : 2023
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 24th edition 2023; 4500-B
9	Nitrate Nitrogen as N	mg/L	-	-	-	-	-	2.4	APHA 24th Edition 2023 (4500 NO3-D)
10	Nitrite as N	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 34/Sec 1) : 2023
11	Ammonia as N	mg/L	-	-	-	-	-	1.6	IS 3025 (Part 34/Sec 1) : 2023
12	Total Kjeldahl Nitrogen (TKN)	mg/L	-	-	-	-	-	2.0	IS 3025 (Part 34/Sec 1) : 2023
13	Turbidity	NTU	-	-	-	-	-	12	IS 3025 (Part 10) : 2023
14	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	156	IS 3025 (Part 21) : 2023
15	Calcium as CaCO ₃	mg/L	-	-	-	-	-	84	IS 3025 (Part 40) : 2024
16	Calcium as Ca	mg/L	-	-	-	-	-	34	IS 3025 (Part 40) : 2024
17	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	72	IS 3025 (Part 46) : 2023

1	Station code	3624			Page 2 of 2	
2	Date & time of Sample taken	Date	10-09-2025	Time	12.30PM	Type of Water Body Lake
3	Name of Monitoring Station	Puttannahalli Lake			SAMPLE COLLECTED BY : Sri.Yogananda J N, EO RO:Yelahanka	
4	Temperature	26°C			Report No. : WR-2269	
5	Date of commencement of test	10-09-2025			Sample No. : W-2269	
6	Date of completion of test	28-10-2025				
7	Particulars of sample collected	Lake Water Sample				

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
18	Magnesium as Mg	mg/L	-	-	-	-	-	17	IS 3025 (Part 46) : 2023
19	Chloride as Cl	mg/L	-	-	-	-	-	96	IS 3025 (Part 32) : 2019
20	Sodium as Na	mg/L	-	-	-	-	-	55	IS 3025 (Part 45) : 2024
21	Potassium as K	mg/L	-	-	-	-	-	11	IS 3025 (Part 45) : 2024
22	% Sodium	%	-	-	-	-	-	41	KSPCB-CEL-1/SOP_Percentage Sodium/13/29.08.2013
23	Sulphate as SO ₄	mg/L	-	-	-	-	-	23	IS 3025 (Part 24/Sec 1): 2022
24	P- Alkalinity	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
25	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	136	IS 3025 (Part 23) : 2021
26	Sodium Absorption Ratio (SAR)	-	-	-	-	-	26	1.92	IS 11624: 2023
27	Free Ammonia as N	mg/L	-	-	-	1.2	-	BDL	CELKSPCB/SOP/20: 2013
28	Bicarbonates (HCO ₃ ⁻)	mg/L	-	-	-	-	-	136	IS 3025 (Part 23) : 2019
29	Carbonate(CO ₃)	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
30	Total Dissolved Solids	mg/L	-	-	-	-	-	386	IS 3025 (Part 16) : 2023
31	Total Suspended solids	mg/L	-	-	-	-	-	22	IS 3025 (Part 17) : 2022
32	Total-Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31/Sec 1) : 2023
33	Dissolved (Ortho)Phosphate as PO ₄	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31/Sec 1) : 2022
34	Fluoride as F	mg/L	-	-	-	-	-	0.38	IS 3025 (Part 60/Sec 1) : 2023
INFERENCE		Class "E"- to prescribed standards with respect to Biochemical oxygen demand and Dissolved Oxygen per Primary Water Quality Criteria – CPCB.							
		Designated best use - Irrigation, Industrial cooling, Controlled Waste disposal.							

Note: 1. The above results pertain only to the sample tested.

2. The report shall not be reproduced without the written approval of the laboratory.

3. Samples will be stored for a period of 10 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L.

Boron as B:0.1;Free Ammonia as N:0.1;P- Alkalinity:2.0;Carbonate(CO₃):2.0;Nitrite as N:0.05;Total-Phosphate as P:0.05; Dissolved (Ortho)Phosphate as PO₄:0.1.

Radha M.N
Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Farhath Jabeen
Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer



TC-16112



**KARNATAKA STATE POLLUTION CONTROL BOARD
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TEST REPORT

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7 ನೇ 'D' ಅಡ್ಡರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ
ಹಿವನಗೂಡು, ಬೆಂಗಳೂರು-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

1	Station code	3624				Date : 25-11-2025	
2	Date & time of Sample taken	Date	17-10-2025	Time	02.30PM	Type of Water Body	Lake
3	Name of Monitoring Station	Puttenahalli Lake				SAMPLE COLLECTED BY :	
4	Temperature	31°C				Smt.Punitha H.S, DEO RO:Yelahanka	
5	Visible Effluent Discharge in Proximity	None√	Moderate	High	Municipal Sewage	Completed by	Project Assistant
6	Weather	Cloudy	Clear√	Windy	Raining	Verified by:	Deputy Scientific Officer
7	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood	Agency:	Karnataka
8	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other	Date of commencement of test	17-10-2025
9	Colour	Clear√	Light Green	Other	Brown	Date of completion of test	21-11-2025
10	Odour	None	Fishy√	H ₂ S	Soapy	Report No.	WR-2728
11	Particulars of sample collected	Lake Water Sample Lat:13.1115075,Long:77.570980				Sample No.	W-2728

Parameters	Unit	Water Quality Criteria					Result	Test Method
		A	B	C	D	E		
pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	6.5	IS 3025 (Part 11) : 2022
Conductivity	µS/cm	-	-	-	-	2250	785	IS 3025 (Part 14) : 2023
Total Coliform	MPN /100ml	50	500	5000	-	-	5400	APHA (24th edition) 9221 A, B, C: 2023
Fecal Coliform	MPN /100ml	-	-	-	-	-	460	APHA (24th edition) 9221 E: 2023
Dissolved Oxygen	mg/L	6	5	4	4	-	2.1	IS 3025 (Part 38) : 2019
Biochemical oxygen demand	mg/L	2	3	3	-	-	29	IS 3025 (Part 44) : 2023
Chemical oxygen demand (COD)	mg/L	-	-	-	-	-	208	IS 3025 (Part 58) : 2023
Boron as B	mg/L	-	-	-	-	2	BDL	APHA 24th edition 2023; 4500-B
Nitrate Nitrogen as N	mg/L	-	-	-	-	-	3.0	APHA 24th Edition 2023 (4500 NO3-D)
Nitrite as N	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 34/Sec 1) : 2023
Ammonia as N	mg/L	-	-	-	-	-	3.4	IS 3025 (Part 34/Sec 1) : 2023
Total Kjeldahl Nitrogen (TKN)	mg/L	-	-	-	-	-	4.2	IS 3025 (Part 34/Sec 1) : 2023
Turbidity	NTU	-	-	-	-	-	14.2	IS 3025 (Part 10) : 2023
Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	248	IS 3025 (Part 21) : 2023
Calcium as CaCO ₃	mg/L	-	-	-	-	-	128	IS 3025 (Part 40) : 2024
Calcium as Ca	mg/L	-	-	-	-	-	51	IS 3025 (Part 40) : 2024
Magnesium as CaCO ₃	mg/L	-	-	-	-	-	120	IS 3025 (Part 46) : 2023
Magnesium as Mg	mg/L	-	-	-	-	-	29	IS 3025 (Part 46) : 2023

1	Station code	3624			Page 2 of 2	
2	Date & time of Sample taken	Date	17-10-2025	Time	02.30PM	Type of Water Body
3	Name of Monitoring Station	Puttenuhalli Lake				Lake
4	Temperature	31°C				SAMPLE COLLECTED BY :
5	Date of commencement of test	17-10-2025				Smt.Punitha B.S, BSC
6	Date of completion of test	21-11-2025				RC: Yelshanka
7	Particulars of sample collected	Lake Water Sample				Report No. : WR-2728
		Lat:13.1115075, Long:77.570920				Sample No. : W-2728

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
9	Chloride as Cl	mg/L	-	-	-	-	-	96	IS 3025 (Part 32) : 2019
10	Sodium as Na	mg/L	-	-	-	-	-	64	IS 3025 (Part 45) : 2024
11	Potassium as K	mg/L	-	-	-	-	-	4.0	IS 3025 (Part 45) : 2024
12	% Sodium	%	-	-	-	-	-	35	KSPCB-CBL-1/SOP_Percent Sodium/13/29.08.2013
13	Sulphate as SO ₄	mg/L	-	-	-	-	-	14	IS 3025 (Part 24/Sec 1) : 2022
14	P- Alkalinity	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
15	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	184	IS 3025 (Part 23) : 2021
16	Sodium Absorption Ratio (SAR)	-	-	-	-	-	26	1.77	IS 11624: 2023
17	Free Ammonia as N	mg/L	-	-	-	1.2	-	BDL	CELKSPCB/SOP/29; 2013
18	Bicarbonates (HCO ₃ ⁻)	mg/L	-	-	-	-	-	184	IS 3025 (Part 23) : 2019
19	Carbonate(CO ₃)	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
20	Total Dissolved Solids	mg/L	-	-	-	-	-	532	IS 3025 (Part 16) : 2023
21	Total Suspended solids	mg/L	-	-	-	-	-	18	IS 3025 (Part 17) : 2022
22	Total-Phosphate as P	mg/L	-	-	-	-	-	0.12	IS 3025 (Part 31/Sec 1) : 2022
23	Dissolved (Ortho)Phosphate as PO ₄	mg/L	-	-	-	-	-	0.34	IS 3025 (Part 31/Sec 1) : 2022
24	Fluoride as F	mg/L	-	-	-	-	-	0.42	IS 3025 (Part 60/Sec 1) : 2023
25	Copper as Cu	mg/L	-	-	-	-	-	BDL	APHA 24th edition (3125B): 2023
26	Lead as Pb	mg/L	-	-	-	-	-	BDL	
27	Zinc as Zn	mg/L	-	-	-	-	-	BDL	
28	Nickel as Ni	mg/L	-	-	-	-	-	BDL	
29	Iron as Fe	mg/L	-	-	-	-	-	1.056	
30	Manganese as Mn	mg/L	-	-	-	-	-	0.662	
31	Cadmium as Cd	mg/L	-	-	-	-	-	BDL	
32	Total Chromium as Cr	mg/L	-	-	-	-	-	0.005	
INFERENCE		Class "E" - to prescribed standards with respect to Biochemical oxygen demand, Total Coliform and Dissolved Oxygen as per Primary Water Quality Criteria - CPCB. Designated best use - Irrigation, Industrial cooling, Controlled Waste disposal.							

Note: 1. The above results pertain only to the sample tested.

2. The report shall not be reproduced without the written approval of the laboratory.

3. Samples will be stored for a period of 10 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L.

Boron as B:0.1; Free Ammonia as N:0.1; P- Alkalinity:2.0; Carbonate(CO₃):2.0; Nitrite as N:0.05; Copper as Cu:0.002;
Lead as Pb:0.003; Zinc as Zn:0.002; Nickel as Ni:0.002; Cadmium as Cd:0.002.

Radha. M. N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Farhath Jabeen

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer



TC-16112



KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

MoEF RECOGNISED ENVIRONMENTAL LABORATORY
ISO/IEC 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-16112
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TEST REPORT

Date : 12-12-2025

1	Station code	3624				Page 1 of 2	
2	Date & time of Sample taken	Date	25-11-2025	Time	02.45PM	Type of Water Body	Lake
3	Name of Monitoring Station	Puttenahalli Lake				SAMPLE COLLECTED BY : Smt.Puneeta H S , DEO	
4	Temperature	32°C				RO:Yelahanka	
5	Visible Effluent Discharge in Proximity	None	Industrial	High	Municipal Sewage	Completed by	Scientific Assistant
6	Weather	Cloudy	Clear	Windy	Raining	Verified by:	Deputy Scientific Officer
7	Depth of water body (meter)	< 50 cm	50-100cm	>100 cm	Flood	Agency:	Karnataka
8	Human Activities	Cattle Wading	Melon Farming	Fishing	Other	Date of commencement of test	26-11-2025
9	Colour	Clear	Light Green	Other	Light Brown	Date of completion of test	09-12-2025
10	Odour	None	Fishy	H ₂ S	Odour free	Report No.	WR-3233
11	Particulars of sample collected	Lake Water Sample Lat:13.1115075,Long:77.570980				Sample No.	W-3233

Sl No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	6.6	IS 3025 (Part 11) : 2022
2	Conductivity	µS/cm	-	-	-	-	2250	901	IS 3025 (Part 14) : 2023
3	Total Coliform	MPN /100ml	50	500	5000	-	-	4300	APHA (24th edition) 9221 A, B, C: 2023
4	Fecal Coliform	MPN /100ml	-	-	-	-	-	310	APHA (24th edition) 9221 E: 2023
5	Dissolved Oxygen	mg/L	6	5	4	4	-	5.3	IS 3025 (Part 38) : 2019
6	Biochemical oxygen demand	mg/L	2	3	3	-	-	7.0	IS 3025 (Part 44) : 2023
7	Chemical oxygen demand (COD)	mg/L	-	-	-	-	-	88	IS 3025 (Part 58) : 2023
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 24th edition 2023; 4500-B
9	Nitrate Nitrogen as N	mg/L	-	-	-	-	-	3.5	APHA 24th Edition 2023 (4500 NO3-D)
10	Nitrite as N	mg/L	-	-	-	-	-	0.35	IS 3025 (Part 34/Sec 1) : 2023
11	Ammonia as N	mg/L	-	-	-	-	-	0.53	IS 3025 (Part 34/Sec 1) : 2023
12	Total Kjeldahl Nitrogen (TKN)	mg/L	-	-	-	-	-	0.69	IS 3025 (Part 34/Sec 1) : 2023
13	Turbidity	NTU	-	-	-	-	-	18.4	IS 3025 (Part 10) : 2023
14	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	256	IS 3025 (Part 21) : 2023
15	Calcium as CaCO ₃	mg/L	-	-	-	-	-	132	IS 3025 (Part 40) : 2024
16	Calcium as Ca	mg/L	-	-	-	-	-	53	IS 3025 (Part 40) : 2024
17	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	124	IS 3025 (Part 46) : 2023

P.T.O

1	Station code	3624				Page 2 of 2	
2	Date & time of Sample taken	Date	25-11-2025	Time	02.45PM	Type of Water Body	Lake
3	Name of Monitoring Station	Puttenahalli Lake				SAMPLE COLLECTED BY :	
4	Temperature	32°C				Smt.Punceta H S , DEO RO:Yelahanka	
5	Date of commencement of test	26-11-2025				Report No. : WR-3233	
6	Date of completion of test	09-12-2025				Sample No. : W-3233	
7	Particulars of sample collected	Lake Water Sample Lat:13.1115075,Long:77.570980					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
18	Magnesium as Mg	mg/L	-	-	-	-	-	30	IS 3025 (Part 46) : 2023
19	Chloride as Cl	mg/L	-	-	-	-	-	132	IS 3025 (Part 32) : 2019
20	Sodium as Na	mg/L	-	-	-	-	-	99	IS 3025 (Part 45) : 2024
21	Potassium as K	mg/L	-	-	-	-	-	11	IS 3025 (Part 45) : 2024
22	% Sodium	%	-	-	-	-	-	44	KSPCB-CEL-1/SOP_Percent Sodium/13/29.08.2013
23	Sulphate as SO ₄	mg/L	-	-	-	-	-	8.0	IS 3025 (Part 24/Sec 1): 2022
24	P- Alkalinity	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
25	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	332	IS 3025 (Part 23) : 2021
26	Sodium Absorption Ratio (SAR)	-	-	-	-	-	26	2.7	IS 11624: 2023
27	Free Ammonia as N	mg/L	-	-	-	1.2	-	BDL	CELKSPCB/SOP/20: 2013
28	Bicarbonates (HCO ₃ ⁻)	mg/L	-	-	-	-	-	332	IS 3025 (Part 23) : 2019
29	Carbonate(CO ₃)	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
30	Total Dissolved Solids	mg/L	-	-	-	-	-	622	IS 3025 (Part 16) : 2023
31	Total Suspended solids	mg/L	-	-	-	-	-	22	IS 3025 (Part 17) : 2022
32	Total-Phosphate as P	mg/L	-	-	-	-	-	0.07	IS 3025 (Part 31/Sec 1) : 2022
33	Dissolved (Ortho) Phosphate as PO ₄	mg/L	-	-	-	-	-	0.16	IS 3025 (Part 31/Sec 1) : 2022
34	Fluoride as F	mg/L	-	-	-	-	-	0.42	IS 3025 (Part 60/Sec 1) : 2023
INFERENCE		Class "D"- to prescribed standards with respect to Biochemical oxygen demand per Primary Water Quality Criteria – CPCB.							
		Designated best use - Propagation of Wild Life, Fisheries .							

Note: 1. The above results pertain only to the sample tested.

2. The report shall not be reproduced without the written approval of the laboratory.

3. Samples will be stored for a period of 10 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L.

Boron as B:0.1;Free Ammonia as N:0.1;P- Alkalinity:2.0;Carbonate(CO₃):2.0.

Radha M.N.

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Farhath Jabeen

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer



TC-16112



Annexure-2

KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY
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ISO/IEC 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-16112
ISO 45001:2018 CERTIFIED LABORATORY

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K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Humnalah Road
Shivanagar, Bengaluru - 560079

TEST REPORT

Date : 22.01.2026

NAME OF THE LAKE :		Water sample collected from Storm water drain which is join at North side of Puttenahalli lake					Page 1 of 1		
SAMPLE COLLECTED BY :		Sri. Yogananda. J.N EO RO: Yelahanka			DATE OF COMMENCEMENT OF TEST: 17.01.2026				
DATE OF COLLECTION :		17.01.2026			DATE OF COMPLETION OF TEST: 22.01.2026				
DATE OF RECEIPT :		17.01.2026			Report No. : WR- 4014				
PARTICULARS		Storm water sample			Sample No. : W- 4014				
Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	6.8	IS 3025 (Part 11) : 2022
2	Conductivity	µS/cm	-	-	-	-	2250	1343	IS 3025 (Part 14) : 2023
3	Dissolved Oxygen	mg/L	6	5	4	4	-	0.8	IS 3025 : Part 38: 2019
4	Total Coliform	MPN/100 ml	50	500	5000	-	-	5400	APHA (24th edition) 9221 A, B, C: 2023
5	Biochemical oxygen demand	mg/L	2	3	3	-	-	66	IS 3025 (Part 44) : 2023
6	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 24th edition 2023 4500-B
7	Sodium Absorption Ratio (SAR)	-	-	-	-	-	26	2.92	IS 11624: 2023
8	Free Ammonia as N	mg/L	-	-	-	1.2	-	0.12	CELKSPCB/SOP/20: 2013
INFERENCE		Class " E"- to prescribed standards with respect to Dissolved Oxygen, Total Coliform, Biochemical Oxygen Demand @ 27° C for 3 days as per Primary Water Quality Criteria – CPCB.							
		Designated best use -Irrigation, Industrial cooling, Controlled Waste disposal.							

- Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. BDL: Below Detection Level in mg/L.

Boron as B: 0.1

Radha.M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

----End of Report----



TC-16112

KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

MoEF RECOGNISED ENVIRONMENTAL LABORATORY
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TEST REPORT

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ಕ.ಸ.ಪ.ಪ.ನಿ.ಯಂ. "ನಿಸರ್ಗ ಭವಾನಿ",
7 ನೇ 'D' ಅಡ್ಡರಸ್ತೆ, ಕೆ.ಎಸ್.ಸಿ.ಬಿ.,
6ನೇ ಮಹಡಿ, ಬೆಂಗಳೂರು-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thummaiah Road,
Shivanagar, Bengaluru-560079

Date : 22.01.2026

NAME OF THE LAKE :		Water sample collected from Storm water drain North East point of Puttenahalli lake which is flowing diverted channel					Page 1 of 1		
SAMPLE COLLECTED BY		Sri. Yogananda. J.N EO RO: Yelahanka			DATE OF COMMENCEMENT OF TEST: 17.01.2026				
DATE OF COLLECTION :		17.01.2026			DATE OF COMPLETION OF TEST: 22.01.2026				
DATE OF RECEIPT :		17.01.2026			Report No. : WR- 4015				
PARTICULARS		Storm water sample			Sample No. : W- 4015				
Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	6.8	IS 3025 (Part 11) : 2022
2	Conductivity	µS/cm	-	-	-	-	2250	982	IS 3025 (Part 14) : 2023
3	Dissolved Oxygen	mg/L	6	5	4	4	-	0.6	IS 3025 : Part 38: 2019
4	Total Coliform	MPN/100 ml	50	500	5000	-	-	350	APHA (24th edition) 9221 A, B, C: 2023
5	Biochemical oxygen demand	mg/L	2	3	3	-	-	54	IS 3025 (Part 44) : 2023
6	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 24th edition 2023 4500-B
7	Sodium Absorption Ratio(SAR)	-	-	-	-	-	26	2.39	IS 11624: 2023
8	Free Ammonia as N	mg/L	-	-	-	1.2	-	0.10	CELKSPCB/SOP/20: 2013
INFERENCE		Class " E"- to prescribed standards with respect to Dissolved Oxygen, Biochemical Oxygen Demand @ 27° C for 3 days as per Primary Water Quality Criteria – CPCB.							
		Designated best use -Irrigation, Industrial cooling, Controlled Waste disposal.							

- Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. BDL: Below Detection Level in mg/L.
Boron as B: 0.1

Radha.M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Farhath Jabeen

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

----End of Report----



TC-16112



KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

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ISO/IEC 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-16112
ISO 45001:2018 CERTIFIED LABORATORY

TEST REPORT

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ಕ.ರಾ.ಪ್ರಾ.ನಿ.ಮಂ., "ನಿಸರ್ಗ ಭವನ",
7 ನೇ 'ಡ' ಅಡ್ಡರಸ್ತೆ, ಶಿವಮೊಯ್ಲೆ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

Date : 22-01-2026

1	Station code	3624				Page 1 of 2	
2	Date & time of Sample taken	Date	17-01-2026	Time	12.15PM	Type of Water Body	Lake
3	Name of Monitoring Station	Puttenahalli Lake				SAMPLE COLLECTED BY :	
4	Temperature	27°C				Sri.Yogananda J N, EO RO: Yelahanka	
5	Visible Effluent Discharge in Proximity	None√	Industrial	High	Municipal Sewage	Completed by	Scientific Assistant
6	Weather	Cloudy	Clear√	Windy	Raining	Verified by:	Deputy Scientific Officer
7	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood	Agency:	Karnataka
8	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other	Date of commencement of test	17-01-2026
9	Colour	Clear √	Light Green	Other	Light Brown	Date of completion of test	22-01-2026
10	Odour	None	Fishy √	H ₂ S	Odour free	Report No.	WR-4016
11	Particulars of sample collected	Lake Water Sample Lat:13.1115075,Long:77.570980				Sample No.	W-4016

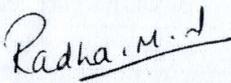
Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	6.7	IS 3025 (Part 11) : 2022
2	Conductivity	µS/cm	-	-	-	-	2250	1057	IS 3025 (Part 14) : 2023
3	Total Coliform	MPN /100ml	50	500	5000	-	-	1400	APHA (24th edition) 9221 A, B, C: 2023
4	Fecal Coliform	MPN /100ml	-	-	-	-	-	320	APHA (24th edition) 9221 E: 2023
5	Dissolved Oxygen	mg/L	6	5	4	4	-	3.3	IS 3025 (Part 38) : 2019
6	Biochemical oxygen demand	mg/L	2	3	3	-	-	22	IS 3025 (Part 44) : 2023
7	Chemical oxygen demand (COD)	mg/L	-	-	-	-	-	192	IS 3025 (Part 58) : 2023
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 24th edition 2023; 4500-B
9	Nitrate Nitrogen as N	mg/L	-	-	-	-	-	4.1	APHA 24th Edition 2023 (4500 NO3-D)
10	Nitrite as N	mg/L	-	-	-	-	-	0.26	IS 3025 (Part 34/Sec 1) : 2023
11	Ammonia as N	mg/L	-	-	-	-	-	6.1	IS 3025 (Part 34/Sec 1) : 2023
12	Total Kjeldahl Nitrogen (TKN)	mg/L	-	-	-	-	-	6.8	IS 3025 (Part 34/Sec 1) : 2023
13	Turbidity	NTU	-	-	-	-	-	6.2	IS 3025 (Part 10) : 2023
14	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	276	IS 3025 (Part 21) : 2023
15	Calcium as CaCO ₃	mg/L	-	-	-	-	-	144	IS 3025 (Part 40) : 2024
16	Calcium as Ca	mg/L	-	-	-	-	-	58	IS 3025 (Part 40) : 2024
17	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	132	IS 3025 (Part 46) : 2023

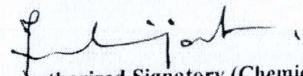
P.T.O

1	Station code	2024			Page 2 of 2		
2	Date & time of Sample taken	Date	17-01-2026	Time	12.15PM	Type of Water Body	Lake
3	Name of Monitoring Station	Puttenahalli Lake				SAMPLE COLLECTED BY : Sri.Yogananda J N, EO RO: Yelahanka	
4	Temperature	27°C					
5	Date of commencement of test	17-01-2026				Report No. : WR-4016	
6	Date of completion of test	22-01-2026				Sample No. : W-4016	
7	Particulars of sample collected	Lake Water Sample Lat:13.1115075,Long:77.570980					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
18	Magnesium as Mg	mg/L	-	-	-	-	-	32	IS 3025 (Part 46) : 2023
19	Chloride as Cl	mg/L	-	-	-	-	-	176	IS 3025 (Part 32) : 2019
20	Sodium as Na	mg/L	-	-	-	-	-	104	IS 3025 (Part 45) : 2024
21	Potassium as K	mg/L	-	-	-	-	-	21	IS 3025 (Part 45) : 2024
22	% Sodium	%	-	-	-	-	-	43	KSPCB-CEL-1/SOP_Percent Sodium/13/29.08.2013
23	Sulphate as SO ₄	mg/L	-	-	-	-	-	42	IS 3025 (Part 24/Sec 1) : 2022
24	P- Alkalinity	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
25	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	244	IS 3025 (Part 23) : 2021
26	Sodium Absorption Ratio (SAR)	-	-	-	-	-	26	2.72	IS 11624: 2023
27	Free Ammonia as N	mg/L	-	-	-	1.2	-	BDL	CELKSPCB/SOP/20: 2013
28	Bicarbonates (HCO ₃ ⁻)	mg/L	-	-	-	-	-	244	IS 3025 (Part 23) : 2019
29	Carbonate(CO ₃)	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 23) : 2023
30	Total Dissolved Solids	mg/L	-	-	-	-	-	728	IS 3025 (Part 16) : 2023
31	Total Suspended solids	mg/L	-	-	-	-	-	8.0	IS 3025 (Part 17) : 2022
32	Total-Phosphate as P	mg/L	-	-	-	-	-	0.68	IS 3025 (Part 31/Sec 1) : 2022
33	Dissolved (Ortho)Phosphate as PO ₄	mg/L	-	-	-	-	-	1.89	IS 3025 (Part 31/Sec 1) : 2022
34	Fluoride as F	mg/L	-	-	-	-	-	0.29	IS 3025 (Part 60/Sec 1) : 2023
INFERENCE		Class "E"- to prescribed standards with respect to Biochemical oxygen demand and Dissolved Oxygen as per Primary Water Quality Criteria – CPCB.							
		Designated best use - Irrigation, Industrial cooling, Controlled Waste disposal.							

- Note: 1. The above results pertain only to the sample tested.
 2. The report shall not be reproduced without the written approval of the laboratory.
 3. Samples will be stored for a period of 10 days from the date of issue of report.
 4. BDL: Below Detection Level in mg/L.
 Boron as B:0.1;Free Ammonia as N:0.1;P- Alkalinity:2.0;Carbonate(CO₃):2.0

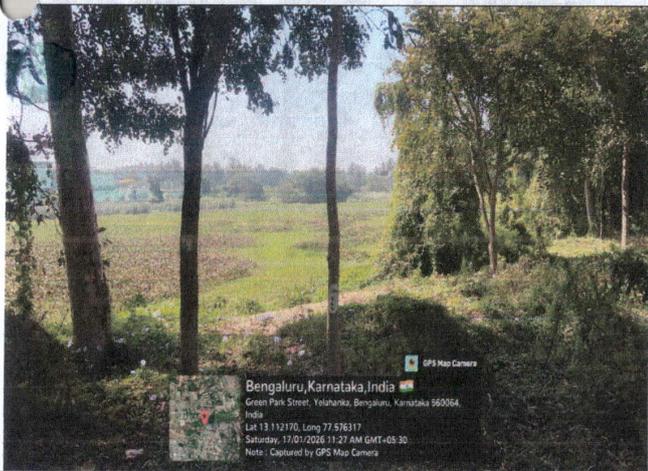

 Authorized Signatory (Biological)
 (Radha M.N)
 Assistant Scientific Officer


 Authorized Signatory (Chemical)
 (Farhath Jabeen)
 Deputy Scientific Officer

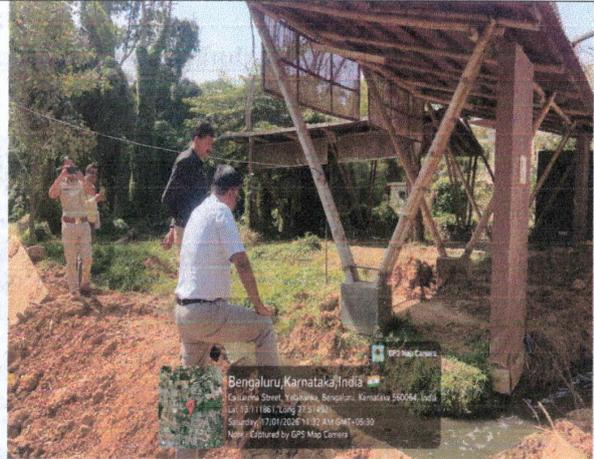
—End of Report—

Annexure 3

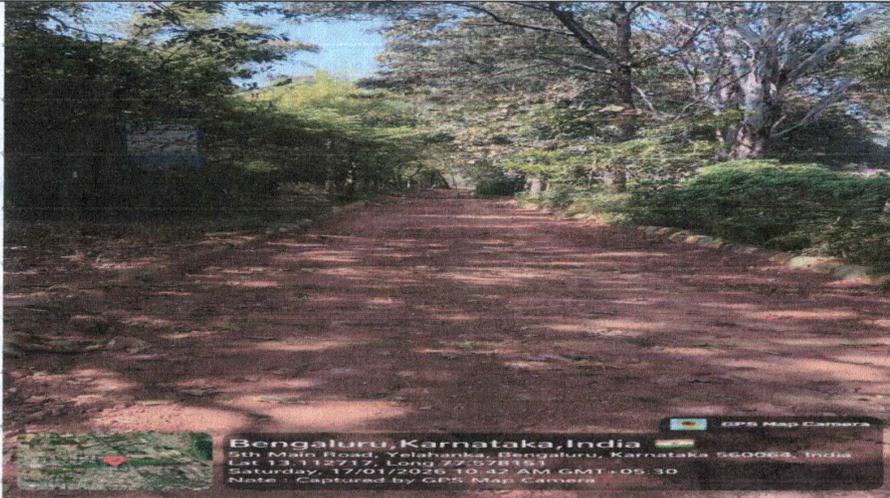
Photos taken during inspection of Puffenahalli lake on 17.01.2026.



Lake completely covered with Water Hyacinth



Sullage mixed with sewage entering from Northern side Nala to Puttenahalli lake



BWSSB UGD Line laid along walking path toward Northern side of the Lake



Status of Lake towards waste weir



BWSSB UGD Line laid upto the outlet of waste weir

**Member Secretary
KSPCB, Bangalore**