

**BEFORE THE NATIONAL GREEN TRIBUNAL  
SOUTHERN ZONE, CHENNAI.**

**M.A.No.13 OF 2022  
In  
O.A.No. 195 OF 2021(SZ)**

**IN THE MATTER**

JAGAN KUMAR J

...Applicant/Applicant

VS

MINOR IRRIGATION DEPARTMENT

...Respondent/Respondent

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1.	ACTION TAKEN REPORT OF KSPCB in respect of YeleMallappa Shetty Lake/Tank.	<b>1-13</b>

Dated: 05.01.2023

M.R. GOKUL KRISHNAN

Counsel for 5<sup>th</sup> Respondent  
(KSPCB)

Regional Office: Bangalore - Mahadevapura  
Karnataka State Pollution Control Board  
"NISARGA BHAVAN", 3rd Floor, Thimmaiah Road,  
7th 'D' Cross, Shivanagar, Bangalore - 560 079.  
Phone : 080-23224002  
E-mail : bngmdpura@kspcb.gov.in

ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ :  
ಬೆಂಗಳೂರು -ಮಹಾದೇವಪುರ  
"ನಿಸರ್ಗ ಭವನ".  
3ನೇ ಮಹಡಿ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,  
7ನೇ "ಡಿ" ಮುಖ್ಯರಸ್ತೆ, ಶಿವನಗರ,  
ಬೆಂಗಳೂರು- 560 079.

ಕರ್ನಾಟಕ ರಾಜ್ಯ  
ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ



towards a cleaner Karnataka

No.KSPCB/RO-MDP/YelemallappachettyLake/NGT/2022-23/

1327

Date:

29 DEC 2022

To,  
The Member Secretary  
KSPCB, Bengaluru-01

DESPATCHED

Kind Attention: SEO Infra(Lakes) Cell

Sir,

Sub: Submission of Inspection report in respect of action taken report w.r.t Hon'ble NGT OA  
no.195 of 2021 (SZ) in respect of Yele Mallappa Shetty Lake/Tank-reg  
\*\*\*\*\*

With reference to the above subject, this is to inform that the above said Hon'ble NGT OA  
no.195 of 2021 (SZ) in respect of Yele Mallappa Shetty Lake/Tank was disposed off on 4.5.2022  
with certain directions to comply by concerned authorities.

Accordingly, the Yelemallappachetty Lake was inspected by the DEO of this office on 8.12.2022  
and the detailed inspection w.r.t. observations made for the action plan submitted by each  
concerned authorities viz; Revenue authority, Minor Irrigation Department, BBMP and BWSSB  
is herewith enclosed for kind reference. As per this report recommended to call the concerned  
authorities for personal hearing at the Board Office level to make compliance to the directions  
issued from the Hon'ble NGT. Hence, it is requested to call the concerned authorities mentioned  
in the report for personal hearing at Board Office level in order to comply the directions issued  
from Hon'ble NGT vide order dated. 4.5.2022.

This is for your kind information and further needful.

Yours faithfully  
Sd/-

Environmental Officer  
RO-Mahadevapura

Copy to:

1. The Senior Environmental Officer, Bangalore East, KSPCB for information
2. Case file.

Environmental Officer  
RO-Mahadevapura

**Inspection Report of Sri. J.N.Yogananda, Deputy Environmental Officer, KSPCB,  
Regional Office – Mahadevapura, Bengaluru.**

Name and address of the project	Yelemallappachetty Lake Sy No. 63 of Medahalli village, Sy No. 2 of Kurudusonnenahalli village, Sy No. 29 of Veerenahalli village, Sy No.96 of Hiranahalli, Sy No.57 of Avalahalli village & Sy No.95 of Hiranahalli villlage, K.R.Puram & Bidarahalli Hobli, Bangalore East Taluk, Old Madras Road, Bengaluru.
Date of Inspection	8.12.2022

**Preamble:**

The Yelemallappachetty Lake is located at Sy No. 63 of Medahalli village, Sy No. 2 of Kurudusonnenahalli village, Sy No. 29 of Veerenahalli village, Sy No.96 of Hiranahalli, Sy No.57 of Avalahalli village & Sy No.95 of Hiranahalli villlage, K.R.Puram & Bidarahalli Hobli, Bangalore East Taluk, Old Madras Road, Bengaluru and it bifurcates the National Highway ( NH-75 ) i.e. Bangalore- Hosakote highway.

This lake surrounded by Avalahalli villag, Hiranahalli village, Kithaganur village and the catchment area/ upstream residential area for the Yelemallappachetty lake is Margondanahalli Lake(Huvinene Lake)/Rampura Lake. This lake comes in both BBMP and Non-BBMP area and the custodian of the lake is Minor Irrigation Department.

The said lake was inspected in view of Hon'ble NGT OA No.195/2021 has been disposed off at South Zone Chennai along with certain directions to the concerned authorities and also due to the Complaint given by Mr Jagan Kumar through whatsapp message with video. Following are the observations were made during inspection:

1. The extent of the lake is about 508Acres 16 Guntas as per Revenue records.
2. The said lake has not been fenced by Minor Irrigation Department authorities.
3. The 85% of the entire lake area has been grown with water hyceneath (water weeds).
4. The C & D waste, Garbage (general solid waste) and plastic waste has been dumped all along the tank bund towards Medahalli main road, Sai Layout, Kithaganoor village, Hiranahalli village & Avalahalli village side .
5. NS Paradise residential layout has been developed towards eastern side of the said Lake, some of the residential houses have been constructed, and the compound wall constructed very close/adjacent to the said lake without maintaining Lake Buffer.

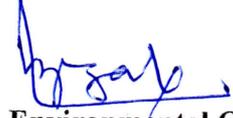
6. The part of untreated sewage discharging from individual houses entering into the Lake at Hiranahalli village side nala, Kithaganoor village side nala, Medahalli side rajakaluve/nala, Avalahalli village side nala through storm water drain was observed.
7. The BWSSB authorities are treating the sewage flowing from Medahalli village upstream in 15 MLD STP installed at Medahalli near the Yelemallappachetty Lake and the same has being discharging into the said Lake.
8. As per the analysis report received from the laboratory and it reveals that the water quality is for **Class-E & D, Class-E** (it can be used for Irrigation, Industrial cooling & controlled waste disposal) and for **Class-D**( it can be used for propagation of Wild life and Fisheries).
9. The photographs are taken during inspection with regard to the plastic waste burnt and dumped in the lake bed towards Hiranahalli village are enclosed for kind reference.

**Recommendations:**

In view of the above said facts and observations,

Directions No.	Subject of Direction	Observations
1	Ascertain the extent of the water body as per the original Revenue Records	Yes, encroachment of lake was observed as per ADLR report. However encroachment has not been removed so far.
2	Whether encroachment has been made into the buffer zone and the lake as alleged by the applicant	
3	Whether the proposed pumping station is being constructed in the buffer zone or in the lake areas, as alleged by the applicant.	Yes, Wet well has been constructed by Minor Irrigation Department within the lake area.
4	Whether the Irrigation department has obtained necessary clearance or permission, if any, required for establishing the lift irrigation scheme for the proposed project, on the basis of which they are now setting up the pumping station in the water body.	
5	Whether there is any encroachment made into the buffer zone or lake by any private party	As per ADLR recent survey & physical observations, few activities were observed which have encroached the lake area and the same has not been removed so far.
6	Whether the lake has been encroached for the purpose of depositing building debris and wastes	Yes, Construction & demolition (C&D) waste was dumped on lakebed, a Road has been formed within the lake area, and it has not been cleared or stopped the dumping of the said waste.
7	Whether any untreated sewage is being let into the lake	Yes, there is entry of untreated sewage into the lake.

From the above it is evident that the concerned authorities like BBMP, BWSSB, Revenue Authority and Minor Irrigation Department authorities are not complying with the action plan submitted to the Hon'ble NGT. Hence, in view of the above said facts the concerned authorities may be called for personal hearing at the Board Office Level to take further action w.r.t. compliance to the directions issued by Hon'ble NGT dtd. 4.5.2022.



**Deputy Environmental Officer,  
RO-Mahadevapura.**

Photographs taken during inspection of Yelemallappachetty Lake on 08.12.2022.



Plastic waste has dumped in the lake bed



Fresh soil/mud has being dumping over the plastic waste dumped in the lake bed



Fresh soil/mud has being dumping over the plastic waste dumped in the lake bed



Deputy Environmental Officer  
RO-Mahadevapura.



**KARNATAKA STATE POLLUTION CONTROL BOARD**  
**CENTRAL ENVIRONMENTAL LABORATORY**  
 MoEF RECOGNISED ENVIRONMENTAL LABORATORY  
 ISO/IEC 17025 Accredited Testing Laboratory by NABL Vide Certificate Number TC-5487  
 ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

Email: [centrallab@kspcb.gov.in](mailto:centrallab@kspcb.gov.in)  
 Website : <http://kspcb.gov.in>

ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ನಿಸರ್ಗಭವನ,  
 ೭ ನೇ 'D' ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮನಾಳ ರಸ್ತೆ,  
 ಶಿವನಗರ, ಬೆಂಗಳೂರು-೫೬೦೦೭೯  
 K.S.P.C.B., "Nisarga Bhavan"  
 7<sup>th</sup> D Cross, Thimmaiah Road,  
 Shivanagar, Bangalore - 560079

**ANALYSIS REPORT**

Date : 01-08-2022

1 Station code	3605				Page 1 of 2	
2 Date & time of Sample taken	Date	05-07-2022	Time	1:15 PM	Type of Water Body	Lake
3 Name of Monitoring Station	Yellamallappa Shetty Lake				SAMPLE COLLECTED BY :Sri.Yoganand J N, DEO RO: Mahadevapura	
4 Visible Effluent Discharge in Proximity	None ✓	Moderate	High	Other	Completed by	Project Assistant
5 Weather	Cloudy ✓	Clear	Windy	Raining	Verified by:	Deputy Scientific Officer
6 Depth of water body (meter)	< 50 cm ✓	50-100cm	>100 cm	Flood	AGENCY:	KARNATAKA
7 Human Activities	Cattle Wading	Melon Farming	Fishing ✓	Other Agriculture	Date of commencement of test	06-07-2022
8 Colour	Clear	Turbid	Light Black ✓	Brown	Date of completion of test	15-07-2022
9 Odour	None ✓	Fishy	H2S	Other	Sample Report No.	W-965
10 Particulars of sample collected	Lake Water Sample				Sample No.	W-965

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25° C	-	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)
3	Conductivity@25° C	µs/cm	-	-	-	-	2250	1350	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	540x10 <sup>2</sup>	APHA 23 <sup>rd</sup> edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	31x10 <sup>2</sup>	APHA 23 <sup>rd</sup> edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	4.2	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 °C)	mg/L	2	3	3	-	-	5.0	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	55	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23 <sup>rd</sup> edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	3.4	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	40	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	19	IS 3025 (Part 10)
13	Total Hardness as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	284	IS 3025 (Part 21)
14	Calcium as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	148	IS 3025 (Part 40)

P.T.O

1	Station code	3605			Page 2 of 2	
2	Date & time of Sample taken	Date	05-07-2022	Time	1:15 PM	Type of Water Body Lake
3	Name of Monitoring Station	Yellamallappa Shetty Lake			SAMPLE COLLECTED BY :Sri. Yoganand J N, DEO RO: Mahadevapura	
4	Date of commencement of test	06-07-2022			W-965	
5	Date of completion of test	15-07-2022			W-965	
6	Particulars of sample collected	Lake Water Sample				

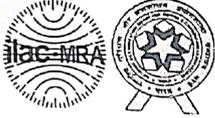
Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	136	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	188	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	148	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	16	IS 3025 (Part 45)
19	Sulphate as SO <sub>4</sub>	mg/L	-	-	-	-	-	24	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	296	
22	Bicarbonate (HCO <sub>3</sub> )	mg/L	-	-	-	-	-	296	
23	Carbonate (CO <sub>3</sub> )	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	904	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	0.07	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.29	IS 3025 (Part 60)
<b>INFERENCE</b>		Class "D"- As per Primary Water Quality Criteria – CPCB.							
		Designated best use - Propagation of Wild Life, Fisheries.							

- Note:**
- The above results pertain only to the sample tested.
  - The report shall not be reproduced without the written approval of the laboratory.
  - Samples will be stored for a period of 10 days from the date of issue of report.
  - Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
  - 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-5487

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

 MoEF RECOGNISED ENVIRONMENTAL LABORATORY  
 ISO/IEC 17025 Accredited Testing Laboratory by NABL Vide Certificate Number TC-5487  
 ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

 ಕ.ಸ.ಪ.ಪ.ನಿ.ಯು., ನಿರ್ವಹಣಾಘಟಕ,  
 ೭ ನೇ 'ಡಿ'ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,  
 ಶಿವನಗರ, ಚಂಗನಾಪುರ-೫೬೦೦೭  
 K. S. P. C. B., "Nisarga Bhavan"  
 7<sup>th</sup> D Cross, Thimmaiah Road,  
 Shivnagar, Bangalore - 560079
**ANALYSIS REPORT**

Date : 05-09-2022

1 Station code		3605				Page 1 of 2	
2 Date & time of Sample taken	Date	10-08-2022	Time	12.05 PM	Type of Water Body	Lake	
3 Name of Monitoring Station	Yellamallappa Tank				SAMPLE COLLECTED BY : Sri. Yogananda.JN, DEO RO: Mahadevapura		
4 Visible Effluent Discharge in Proximity	None ✓	Moderate	High	Other	Completed by	Project Assistant	
5 Weather	Cloudy ✓	Clear	Windy	Raining	Verified by:	Deputy Scientific Officer	
6 Depth of water body (meter)	< 50 cm ✓	50-100cm	>100 cm	Flood	AGENCY:	KARNATAKA	
7 Human Activities	Cattle Wading	Melon Farming	Fishing ✓	Other Agriculture	Date of commencement of test	11-08-2022	
8 Colour	Clear	Turbid	Light ✓ Black	Brown	Date of completion of test	20/08/2022	
9 Odour	None ✓	Fishy	H2S	Other	Sample Report No.	W-1298	
10 Particulars of sample collected	Lake Water Sample				Sample No.	W-1298	

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25° C	-	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)
3	Conductivity@25° C	µs/cm	-	-	-	-	2250	846	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	92000	APHA 23 <sup>rd</sup> edition (9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	4600	APHA 23 <sup>rd</sup> edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	0.8	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 °C)	mg/L	2	3	3	-	-	14	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	130	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23 <sup>rd</sup> edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	2.7	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	10.3	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	17	IS 3025 (Part 10)
13	Total Hardness as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	140	IS 3025 (Part 21)
14	Calcium as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	72	IS 3025 (Part 40)

P.T.O



1	Station code	3605			Page 2 of 2	
2	Date & time of Sample taken	Date	10-08-2022	Time	12.05 PM	Type of Water Body Lake
3	Name of Monitoring Station	Yellamallappa Tank			SAMPLE COLLECTED BY : Sri. Yogananda.JN, DEO RO: Mahadevapura	
4	Date of commencement of test	11-08-2022			W-1298	
5	Date of completion of test	20/08/2022			W-1298	
6	Particulars of sample collected	Lake Water Sample				

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	68	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	92	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	92.5	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	14.5	IS 3025 (Part 45)
19	Sulphate as SO <sub>4</sub>	mg/L	-	-	-	-	-	13	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	164	
22	Bicarbonate ( HCO <sub>3</sub> )	mg/L	-	-	-	-	-	164	
23	Carbonate ( CO <sub>3</sub> )	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	562	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	0.07	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.28	IS 3025 (Part 60)
<b>INFERENCE</b>		Class "E"- 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. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".  
5. 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-5487



KARNATAKA STATE POLLUTION CONTROL BOARD  
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Email: [centrallab@kspcb.gov.in](mailto:centrallab@kspcb.gov.in)  
Website: <http://kspcb.gov.in>

ಶಿವಮೊಗ್ಗ, ನಿರಗಲಭವನ,  
೭ ನೇ 'ಡಿ' ಮಾರ್ಚ್ ರಸ್ತೆ, ಹಿನ್ನಡ್ಡೆ ರಸ್ತೆ,  
ಬೆವರ್ಲಿ, ಶಿವಮೊಗ್ಗ-೫೬೦೦೭೯  
K.S.P.C.B., "Nisarga Bhavan"  
7<sup>th</sup> D Cross, Thimmaiah Road,  
Shivnagar, Bangalore - 560079

ANALYSIS REPORT

1	Station code	3605				Date : 18-10-2022	
2	Date & time of Sample taken	Date	05-09-2022	Time	02.45PM	Page 1 of 2	
3	Name of Monitoring Station	Yelemallappa Shetty Lake				Type of Water Body Lake	
4	Visible Effluent Discharge in Proximity	None ✓	Moderate	High	Other	SAMPLE COLLECTED BY : Sri. Yogananda.JN, DEO RO: Mahadevapura	
5	Weather	Cloudy	Clear ✓	Windy	Raining	Completed by	Scientific Assistant
6	Depth of water body (meter)	< 50 cm ✓	50-100cm	>100 cm	Flood	Verified by:	Deputy Scientific Officer
7	Human Activities	Cattle Wading	Melon Farming	Fishing ✓	Other Agriculture	AGENCY:	KARNATAKA
8	Colour	Clear	Turbid	Light ✓ Black	Brown	Date of commencement of test	06-09-2022
9	Odour	None ✓	Fishy	H2S	Other	Date of completion of test	13-09-2022
10	Particulars of sample collected	Lake Water Sample				Sample Report No.	W-1932
						Sample No.	W-1932

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25° C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.2	IS 3025 (Part 11)
3	Conductivity@25° C	µs/cm	-	-	-	-	2250	656	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	9200	APHA 23 <sup>rd</sup> edition (9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	310	APHA 23 <sup>rd</sup> edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	6.3	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 °C)	mg/L	2	3	3	-	-	4.0	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	40	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23 <sup>rd</sup> edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	2.2	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.18	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	101.7	IS 3025 (Part 10)
13	Total Hardness as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	196	IS 3025 (Part 21)
14	Calcium as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	104	IS 3025 (Part 40)

P.T.O

1	Station code	3605			Page 2 of 2		
2	Date & time of Sample taken	Date	05-09-2022	Time	02.45PM	Type of Water Body	Lake
3	Name of Monitoring Station	Yelemallappa Shetty Lake				SAMPLE COLLECTED BY : Sri. Yogananda.JN, DEO RO: Mahadevapura	
4	Date of commencement of test	06-09-2022				W-1932	
5	Date of completion of test	13-09-2022				W-1932	
6	Particulars of sample collected	LakeWater Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	92	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	60	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	65	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	8.0	IS 3025 (Part 45)
19	Sulphate as SO <sub>4</sub>	mg/L	-	-	-	-	-	10.0	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	212	
22	Bicarbonate ( HCO <sub>3</sub> )	mg/L	-	-	-	-	-	212	
23	Carbonate ( CO <sub>3</sub> )	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	446	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	1.2	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.12	IS 3025 (Part 60)
INFERENCE		Class "D"- 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. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".

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

Boron as B :0.1;

*Radha M.N*

Authorized Signatory (Biological)

(Radha M.N)

Assistant Scientific Officer

*Q*

*Farhath Jabeen*

Authorized Signatory (Chemical)

(Farhath Jabeen)

Deputy Scientific Officer

----End of Report----



TC-5487



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

MoEF RECOGNISED ENVIRONMENTAL LABORATORY  
ISO/IEC 17025 Accredited Testing Laboratory by NABL Vide Certificate Number TC-5487  
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

Email: [centrallab@kspcb.gov.in](mailto:centrallab@kspcb.gov.in)  
Website : <http://kspcb.gov.in>

ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಪುನರ್ನಿರ್ಮಾಣ  
4ನೇ ಅಂತಸ್ತು ರಸ್ತೆ, ಶಿವನಗರ ರಸ್ತೆ,  
ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ-560079  
K.S.P.C.B., "Nisarga Bhavan"  
7<sup>th</sup> D Cross, Thimmaiah Road,  
Shivanagar, Bangalore - 560079

**ANALYSIS REPORT**

Date : 05-11-2022

Page 1 of 2

1	Station code	3605					Type of Water Body		Lake
2	Date & time of Sample taken	Date	10-10-2022	Time	11.15AM	SAMPLE COLLECTED BY :Smt. Rathi A.R, DEO RO: Mahadevapura			
3	Name of Monitoring Station	Yelemallappa Shetty Lake					Completed by Scientific Assistant		
4	Visible Effluent Discharge in Proximity	None ✓	Moderate	High	Other	Verified by:		Deputy Scientific Officer	
5	Weather	Cloudy	Clear ✓	Windy	Raining	AGENCY:		KARNATAKA	
6	Depth of water body (meter)	< 50 cm ✓	50-100cm	>100 cm	Flood	Date of commencement of test		11-10-2022	
7	Human Activities	Cattle Wading	Melon Farming	Fishing ✓	Other Agriculture	Date of completion of test		19-10-2022	
8	Colour	Clear	Turbid	Light Black ✓	None	Sample Report No.		W-2288	
9	Odour	None ✓	Fishy	H <sub>2</sub> S	Other	Sample No.		W-2288	
10	Particulars of sample collected	Lake Water Sample							
Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25 <sup>o</sup> C	-	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)
3	Conductivity@25 <sup>o</sup> C	µs/cm	-	-	-	-	2250	1265	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	350000	APHA 23 <sup>rd</sup> edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	40000	APHA 23 <sup>rd</sup> edition (9221 E,D).9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	BDL	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 °C)	mg/L	2	3	3	-	-	12	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	138	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23 <sup>rd</sup> edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	4.4	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	11.6	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	38.6	IS 3025 (Part 10)
13	Total Hardness as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	308	IS 3025 (Part 21)
14	Calcium as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	164	IS 3025 (Part 40)
15	Magnesium as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	144	IS 3025 (Part 46)

P.T.O



1	Station code	3605				Type of Water Body	Lake
2	Date & time of Sample taken	Date	10-10-2022	Time	11.15AM	SAMPLE COLLECTED BY :Smt. Rathi A.R, DEO RO: Mahadevapura	
3	Name of Monitoring Station	Yelemallappa Shetty Lake				W-2288	
4	Date of commencement of test	11-10-2022				W-2288	
5	Date of completion of test	19-10-2022				W-2288	
6	Particulars of sample collected	Lake Water Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
16	Chloride as Cl	mg/L	-	-	-	-	-	140	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	137	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	13	IS 3025 (Part 45)
19	Sulphate as SO <sub>4</sub>	mg/L	-	-	-	-	-	14	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as CaCO <sub>3</sub>	mg/L	-	-	-	-	-	272	
22	Bicarbonate ( HCO <sub>3</sub> )	mg/L	-	-	-	-	-	272	
23	Carbonate ( CO <sub>3</sub> )	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	884	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 60)
27	Copper as Cu	mg/L	-	-	-	-	-	0.005	APHA 23rd edition (3125B)
28	Zinc as Zn	mg/L	-	-	-	-	-	0.009	
29	Nickel as Ni	mg/L	-	-	-	-	-	BDL	
30	Manganese as Mn	mg/L	-	-	-	-	-	0.334	
31	Total Chromium as Cr	mg/L	-	-	-	-	-	BDL	
32	Iron as Fe	mg/L	-	-	-	-	-	1.410	
33	Cadmium as Cd	mg/L	-	-	-	-	-	BDL	
34	Lead as Pb	mg/L	-	-	-	-	-	BDL	
<b>INFERENCE</b>		Class "E"- 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. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".

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

Boron as B :0.1; Total Chromium as Cr:0.001; Cadmium as Cd:0.001; Lead as Pb:0.002.

Nickel as Ni :0.001; Total Phosphate as P:0.05; Fluoride as F:0.1; Dissolved Oxygen :0.5.

*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----