

**BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE BENCH, CHENNAI
ORIGINAL APPLICATION NO. 182 OF 2023 (SZ)
[EARLIER O.A. NO. 324 OF 2021(PB)]**

IN THE MATTER OF:

Tribunal on its own motion SUO MOTO based on the news item published in 'The Indian Express dated 21.11.2021, titled "***Lakes of Bengaluru: Industrial Effluents, raw sewage, stinky tale of Chandrapura lake***".

And

Union of India, MOEF & CC, New Delhi and Ors. ...Respondent(s)

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Date: 08.02.2024

Filed By



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BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE BENCH, CHENNAI
ORIGINAL APPLICATION NO. 182 OF 2023 (SZ)
[EARLIER O.A. NO. 324 OF 2021(PB)]

IN THE MATTER OF:

Tribunal on its own motion SUO MOTO based on the news item published in 'The Indian Express dated 21.11.2021, titled "**Lakes of Bengaluru: Industrial Effluents, raw sewage, stinky tale of Chandrapura lake**".

And

Union of India, MOEF & CC, New Delhi and Ors. ...Respondent(s)

**REPORT ON BEHALF OF THE CHIEF SECRETARY TO THE
GOVERNMENT OF KARNATAKA**

MOST RESPECTFULLY SHOWETH:

1. That the instant report is being filed to bring on record the action taken by various authorities of the Respondent State in compliance of the orders of the Ld. Principal Bench of this Hon'ble Tribunal in instant Original Application, to ensure rejuvenation and rehabilitation of Chandapura Lake situated in Bangalore.
2. In this regard it is pertinent to note in this regard that vide order dated 26.11.2021, the Ld. Principal Bench of this Hon'ble Tribunal had taken *suo moto* cognizance of the present matter, based on an article titled "**Lakes of Bengaluru: Industrial effluents, raw sewage;**



stinky tale of Chandrapura lake" published in the English Daily the Indian Express, on 21.11.2021.

3. Thereafter, a Joint Committee formed under the orders of this Hon'ble Tribunal after carrying out a spot inspection, had suggested remedial measures for Chandapura Lake, Bengaluru (*'the said lake'*).
4. By way of order dated 24.07.2023, the Application came to be transferred to the Ld. Southern Zone Bench of this Hon'ble Tribunal.
5. It is submitted that in compliance with the orders passed by the Hon'ble Tribunal, the progress of action taken by respective departments were reviewed by the Principal Secretary (Ecology and Environment) and Additional Chief Secretary, Forest, Ecology and Environment Department on 20.09.2023, 08.11.2023 & 17.11.2023 respectively. The following action has been taken by the various departments of the Respondent State:

KARNATAKA STATE POLLUTION CONTROL BOARD

6. **Re: Supply of Contaminated Water by Water Packaging Industry** – It is submitted that the concerned authority has monitored the quality of water abstracted from the bore wells used by Water Packaging Industries. As per the analysis report of raw

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water sample collected from bore wells located within the premises of M/s ELGi Aqua Minerals on 09.11.2023 revealed the presence of faecal coliform. True Copy of analysis reports regarding M/s ELGi Aqua Minerals is annexed herewith as **Annexure – R1**. Notice dated: 19.01.2024 has been issued to M/s. Elgi Aqua Minerals in Sy No. 184, Munireddy layout, Bommasandra 3rd Phase, Bengaluru-560099. True Copy of Notice dated 19.01.2024 issued to M/s Elgi Aqua Minerals is annexed herewith as **Annexure-R1A**. Samples of RO permeate will be collected once again for analysis to proceed further as per law.

7. It is submitted that the Regional Officer, Sarjapura collected ground water samples from existing bore wells around the Chandapura lake during the month of October 2023. The analysis reports of samples for the month of September and October, 2023 are annexed herewith as **Annexure – R2**.
8. Further, the Board has initiated the work of collecting the details of bore wells existing within 1km radius of Chandapura Lake and has been monitoring the quality of bore well water.
9. It is submitted that the Regional Officer, Sarjapura has collected water samples on 22.11.2023 from 12 bore wells located within 1 km radius of Chandapura Lake. E Coli has been found in 8 bore

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wells, and traces of heavy metals have been found in all bore well samples. However, it is pertinent to note that they are well within the Acceptable and Permissible limits (as per IS 10500:2012 Reaffirmed 2018 standards) except for Manganese, which is exceeding the acceptable limits in 03 bore wells. True Copy of analysis reports for bore well water samples are annexed herewith as **Annexure – R3A**.

10. In addition to the above, the Regional Officers of the Board have collected water samples from 7 bore wells in the Critically Polluted Area ('CPA') area (03 bore wells from RO-Sarjapura and 04 bore wells from RO-Anekal). The analysis reports of water samples collected on 03.11.2023 from 03 bore wells located in the CPAs indicated that Manganese is exceeding the permissible limit in one of the bore wells and within acceptable limits ('AL') and permissible limit ('PL').
11. The analysis reports of 04 bore well water samples collected on 21.08.2023 indicated that the general parameters are within permissible limits and faecal coliforms are absent. But, certain general parameters viz., TDS, Calcium, Total alkalinity, Magnesium, Total hardness are exceeding AL, but are within the PL as per the standard laid down in IS 10500:2012 (Reaffirmed 2018). Traces of



heavy metals viz., Nickel found within the limits but Manganese is found to be exceeding permissible limits in 02 bore wells and zinc is exceeding permissible limit in one of the bore well. Further, Manganese and Zinc are exceeding PL in one of the bore wells water sample and Zinc is exceeding in one of the bore wells water sample collected during the month of July 2023. True Copies of analysis reports are of bore well water samples are annexed herewith as **Annexure – R3B**.

12. It is submitted that water samples from the Chandapura Lake are being monitored periodically. True Copy of the analysis results of water samples from Chandapura Lake is annexed herewith as **Annexure – R4**.
13. The above analysis reports reveal the presence of Faecal Coliform, and the total coliform and quality of lake water is **Class-E:Standard**.
14. Samples from the drains from where the waste water may enter the Lake have been monitored during the month of October 2023 and November 2023.



15. It has been observed from the above results that Nickel (1.2 mg/l to 5.37 mg/l), Copper (3.4 mg/l to 4.06 mg/l), Manganese (2.56 mg/l) and Iron (10 mg/l to 11.25 mg/l), Total chromium (0.51 mg/l), Selenium (0.032 mg/l) and vanadium (0.01 mg/l) are found in the water samples collected from storm water drain located adjacent to the Kithaganahalli Lake.
16. Further, as per the instructions given during the meeting held on 08.11.2023, the water samples from the storm water drains at seven different locations have been collected on 05.12.2023. Analysis reports of storm water drain samples reveals the presence of faecal coliform. Further, suspended solids, Ammonical Nitrogen, BOD, COD, Fluoride, Nitrate Nitrogen as NO_3 have been found. In addition to the above, heavy metals viz. Copper, Nickel, Iron and traces of Zinc, Manganese, Total Chromium and Vanadium have been found in the sample collected from storm water drain located adjacent to M/s Precision Granite and Marbles Pvt. Limited. Traces of heavy metals have been found in the sample collected from storm water drain located adjacent to M/s Bharat Silks, Bommasandra Industrial area, Storm water drain near Vinayaka Wines @ Kammasandra, Drain adjacent to Heelalige Lake. True

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copy of the analysis reports of water from storm water drain is annexed herewith as **Annexure – R5**.

17. Board has awarded the work to carryout environmental audit study of Large Red and Medium Red category industries operating in the catchment area of Chandapura Lake. True copy of the work order issued to the awardee company is enclosed is annexed herewith as **Annexure – R6**. Notices have been issued by the Board to Urban Local bodies. True Copy of with Translated Copy Notices dated 19.01.2024 issued to the Commissioner, City Municipal Council- Hebbagodi, the Chief Officer, Town Municipal Council- Chandapur and The Chief Officer, Town Municipal Council, Bommasandra is annexed herewith as **Annexure - R7**.
18. **Re: CETP** – It is submitted that there are 207 industries (including 1 CETP) in the catchment area of Chandapura Lake generating trade effluents. Out of the above, 162 units are offloading the effluent to various CETPs. The Officials from the Board are verifying the CETPs, records maintained regarding quantity of trade effluent received from various industries, gaps, amount collected for treatment and disposal.
19. Out of 207 units (including 1 Common Effluent Treatment Plant) 162 industries are offloading to CETP, 17 units are closed, 13 industries



have provided in-house ETP thereby and recycling the treated effluent, 01 unit is CETP, 14 units have modified the process operation resulted in no generation of effluent.

20. **Re: Action Taken against Defaulting Industries** – It is submitted that there were 54 defaulting units. The Board has issued closure orders to 12 units out of 54 units which were not complying with the requirements. The said industries have been closed permanently. Out of the 54 defaulter units, 42 industries have complied and are operating by obtaining valid consent of the Board. The Board is carrying out periodical tests of the industries to ensure compliance.
21. **Re: Levying of Environmental Compensation** – The Board had earlier issued EC demand notices to the 54 defaulting industries by levying a total penalty of Rs. 30.99 Crores. Further, the Board has issued revised demand notices to all 54 units by following the CPCB formula, and the revised EC amounts to Rs. 142,25,62,125/- (One Hundred and Forty-Two Crores, Twenty Five Lakhs, Sixty Two Thousand One Hundred and Twenty Five Only). Out of the said amount, M/s Switchgear and Controls Technics Pvt. Ltd. has remitted the EC amount of Rs. 19,35,000/-. The Board has levied EC of Rs. 4,90,00,000/- on M/s Sandhar Automobiles, and the same has been stayed by the Hon'ble Supreme Court vide order dated

Order

18.09.2023 in Civil Appeal No. 5813/2023. The Hon'ble Supreme Court of India has in turn directed the said industry to deposit Rs. 50 lakhs and accordingly, the said industry has deposited Rs. 50 lakhs. None of the other industries have remitted the EC amount.

22. The Board is hence in the process of obtaining opinion from the Legal Cell for withdrawal of Consent accorded to the industries which have not remitted Environmental Compensation. Once the legal opinions are received, the Board will proceed with further action as per law.

23. **Re: Treatment of Effluents** – It is submitted that the total effluent generation as per the installed capacities of effluent generating industries in Chandapura Lake catchment area is 937 KLD. However, the actual quantity of effluent generated as per the records is 588 KLD. The total effluent treated via in-house ETPs is 516 KLD, whereas the balance 72 KLD is offloaded to CETPs for treatment and disposal.

24. **Re: Deposit of Environment Compensation of Rs. 500 Crores levied by this Hon'ble Tribunal** – It is submitted that the Board has opened a treasury account in the name of "*Member Secretary, KSPCB*" with HOA: 8449-00-120-0-18-719. It is submitted that the Urban Development Department has deposited Rs.500 Crores in

On 20/09/23

the said Account. This amount is being utilized for the rejuvenation and rehabilitation of Chandapura Lake. True Copy of Form KTC 31 of Department of Treasuries, Government of Karnataka in respect of **HOA: 8449-00-120-0-18-719** is annexed herewith as **Annexure-R8**.

KARNATAKA INDUSTRIAL AREA DEVELOPMENT BOARD

25. **Re: Construction of CETP** – It is submitted that the KSPCB has identified 207 out of 543 industries (129/385 in Jigani-Bommasandra Industrial Estate Phase IV Industrial Estate 85; 77/158 in Bommasandra Industrial Estate Phase 1 and Veerasandra Industrial Estate) as effluent generating industries. 16 industries have been permanently shut down, while 13 industries have upgraded to Zero liquid discharge (ZLD). 15 industries have in house ETP. 162 industries are handing over their effluents to CETP. One Industry functions as CETP, handling effluents from 51 industries located within the industrial area. Effluents of remaining 111 industries are being sent to CETPs at 8 other locations *i.e.* Malur, Doddaballapura, Kunigal, Kumbalagudu, Dobaspet, Banaswadi, Harohalli and Jigani. KIADB has identified the CETP point and has made a DPR for the same, and has requested for an amount of Rs. 41.50 Crores from the KSPCB, which has been provided for construction of CETP.



26. It is submitted that KIADB land is available for construction of CETP at Bommasandra Industrial area and the Board has accordingly invited tenders for construction of the same. The Technical Bid opened on 13.12.2023 and as on date, technical evaluation of bids is complete. It is submitted that financial bidding has now opened, and the bids are under evaluation. The work will be taken up as soon as the tender process is complete and the successful bidder is identified.

HEALTH DEPARTMENT

27. There exists a Government Primary Health Centre ('PHC') inside the buffer zone of the lake. It is however submitted that the PHC was built in the land granted by revenue authority prior to enforcement of buffer zone notifications. The said facility has become a part of the buffer zone *ex post facto*. Moreover, there are no PHCs nearby. Hence, owing to the importance of the said government structure especially in view of the fact it serves mostly women and children, it is requested that this Hon'ble Tribunal may permit the PHC to continue to operate in view of the larger public interest. It is submitted that all necessary steps are taken to ensure proper disposal of medical waste generated in the PHC as per law,



and the State will continue to do so, while ensuring that no such waste enters the Lake.

KARNATAKA URBAN WATER SUPPLY AND DRAINAGE BOARD

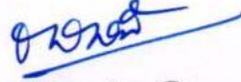
28. **Re: Construction of STPs** – The Karnataka Urban Water Supply and Drainage Board has identified private land, and the land acquisition proceedings are underway. The Board has in the meanwhile invited tenders for construction of 4 STPs on 18.11.2023 and 20.11.2023. As soon as the successful bidders are identified, work will commence.

DEPUTY COMMISSIONER, BANGALORE URBAN DISTRICT

29. It is submitted that Deputy Commissioner has identified 14 buildings on the buffer zone of the lake. Besides the PHC, other buildings inter alia include apartments, commercial establishments and industrial sheds.
30. Process has been initiated against all building owners under the Karnataka Land Revenue Act for violation of law. However, the building owners have approached the Hon'ble JMFC, Anekal vide a suit bearing O.S. No. 313/2023 against the notices issued to them. Written Statement to the Plaintiff has been filed and the suit is being contested by the concerned departments.

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31. Hence, in view of the action taken by the various departments of the State of Karnataka, it is submitted that comprehensive action is being taken to ensure rejuvenation and rehabilitation of Chandapura Lake. In view of the same, it is humbly prayed that the present Original Application may be dismissed.



**Principal Secretary to Government,
(Ecology & Environment)
Forest, Ecology and Environment Dept.
On behalf of Chief Secretary to
Government of Karnataka**

**B.P RAVI L.F.S.,
Principal Secretary to Government
(Ecology and Environment)
Forest, Ecology and Environment Department**

Date: 08.02.2024



TC-5487



**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 5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

Annexure R1

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

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:17.11.2023

NAME OF THE LOCATION :	ELGi Aqua Minerals, No. 184, 3rd Phase, Bommasandra, Anekal Tq, Bengaluru Urban District	Page 1 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 10.11.2023
DATE OF COLLECTION :	09.11.2023	DATE OF COMPLETION OF TEST: 17.11.2023
DATE OF RECEIPT :	10.11.2023	SAMPLE REPORT NO: W- 2707
PARTICULARS	Raw Borewell water sample (Within the premises)	SAMPLE NO: W- 2707

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.6	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.1	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1436	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	112	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	544	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
	Nitrate as NO ₃	mg/L	45	45	32	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	1024	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	206	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	123	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	452	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.11	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.18	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

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NAME OF THE LOCATION :	ELGi Aqua Minerals, No. 184, 3rd Phase, Bommasandra, Anekal Tq, Bengaluru Urban District	Page 2 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 10.11.2023
DATE OF COLLECTION :	09.11.2023	DATE OF COMPLETION OF TEST: 17.11.2023
DATE OF RECEIPT :	10.11.2023	SAMPLE REPORT NO: W- 2707
PARTICULARS	Raw Borewell water sample (Within the premises)	SAMPLE NO: W- 2707

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method	
			AL	PL			
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017	
17	Lead as Pb	mg/L	0.01	0.01	BDL		
18	Zinc as Zn	mg/L	5	15	0.013		
19	Nickel as Ni	mg/L	0.02	0.02	0.010		
20	Iron as Fe	mg/L	1.0	1.0	BDL		
21	Manganese as Mn	mg/L	0.1	0.3	0.035		
22	Cadmium as Cd	mg/L	0.003	0.003	BDL		
23	Total Chromium	mg/L	0.05	0.05	BDL		
24	Cyanide as CN	mg/L	0.05	0.05	BDL		IS 3025(Part 27): 2021
25	E.coli	MPN/ 100 ml	Shall not be detectable in any 100 mL sample		Present (920)		APHA 23rd edition (9221G): 2017
INFERENCE		<p>Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Total Alkalinity as CaCO₃ of IS 10500:2012 (Reaffirmed 2018)</p> <p>Non Conforms to AL & PL standard with respect to Total Hardness as CaCO₃, Calcium as Ca, Magnesium as Mg, E. coli of IS 10500:2012 (Reaffirmed 2018)</p>					

- Note: 1. The above results pertain only to the sample tested.
 2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)
 3. The report shall not be reproduced without the written approval of the laboratory.
 4. Samples will be stored for a period of 10 days from the date of dispatch of report
 5. BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Copper as Cu: 0.003; Lead as Pb: 0.006; Iron as Fe: 0.017; Cadmium as Cd: 0.003;

Total Chromium: 0.004; Cyanide as CN: 0.03

Radha M.N

Authorized Signatory (Biological)

(Radha M.N)

Assistant Scientific Officer

Farhath Jabeen

Authorized Signatory (Chemical)

(Farhath Jabeen)

Deputy Scientific Officer

*E. coli is a subgroup
of fecal coliform group*

----End of Report----



TC-5487



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-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 17.11.2023

NAME OF THE LOCATION :	ELGi Aqua Minerals, No. 184, 3rd Phase, Bommasandra, Anekal Tq, Bengaluru Urban District	Page 1 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 10.11.2023
DATE OF COLLECTION :	09.11.2023	DATE OF COMPLETION OF TEST: 17.11.2023
DATE OF RECEIPT :	10.11.2023	SAMPLE REPORT NO: W- 2708
PARTICULARS	RO permit water	SAMPLE NO: W- 2708

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	5.7	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.1	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	58	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	BDL	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	8.0	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
	Nitrate as NO ₃	mg/L	45	45	0.8	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	8.0	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	2.0	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	1.0	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	36	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	BDL	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	BDL	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

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NAME OF THE LOCATION :	ELGi Aqua Minerals, No. 184, 3rd Phase, Bommasandra, Anekal Tq, Bengaluru Urban District	Page 2 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 10.11.2023
DATE OF COLLECTION :	09.11.2023	DATE OF COMPLETION OF TEST: 17.11.2023
DATE OF RECEIPT :	10.11.2023	SAMPLE REPORT NO: W- 2708
PARTICULARS	RO permit water	SAMPLE NO: W- 2708

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	BDL	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.1	0.3	BDL	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	MPN/ 100 ml	Shall not be detectable in any 100 mL sample		Present (240)	APHA 23rd edition (9221G): 2017
INFERENCE		Non Conforms to AL & PL standard with respect to pH, E. coli of IS 10500:2012 (Reaffirmed 2018)				

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)
3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report
5. BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Copper as Cu: 0.003; Lead as Pb: 0.006; Zinc as Zn: 0.003; Nickel as Ni: 0.002;

Cadmium as Cd: 0.003; Iron as Fe: 0.017; Manganese as Mn: 0.003; Total Chromium: 0.004;

Cyanide as CN: 0.03

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---



No PCB/RO(SJR)/Green/2024/

11403.

//BY RPAD//

DATE: 19 JAN 2024

DESPATCHED

To,

The Occupier,
M/s. Elgi Aqua Minerals
Sy. No. 184, Munireddy Layout,
Bommasandra, III Phase, Bengaluru – 560099

Sir,

Sub: Treatment of RO-permeate to the portable drinking water standards – reg....
Ref: 1. Central pollution control Board order dated 04-09-2019
2. Combined consent order issued by the Board dated 02-11-2018
3. Inspection of the industry on 05-04-2023
4. This office notice dated 05-04-2023
5. This office letter dated 28-07-2023
6. Inspection of the industry along with DEO of this office on 09-11-2023
7. This office notice dated 17-11-2023

In continuation to this office notice cited at ref (4, 5 and 7), wherein, the industry has been informed to submit the compliances as per the observations made during inspection and also to pay Rs. 16,590.60 towards analysis charges of water sample collected from the industry during inspection. On verification of this office record, it is found that, the industry has not submitted the compliances and also not paid the analysis charges.

Further, this office has received the analysis report of the sample collected on 09-11-2023 and as per the analysis report, e. coli is detected in the RO permeate water which is supplied to the public for drinking purposes. Copy of the analysis report is enclosed for reference. The presence of e. coli in the RO permeate indicates that, treatment facility provided by the industry/unit is not enough to treat the raw water to the portable drinking water quality. The consumption of e. coli contaminated water may affect health of the public and may cause diseases. Hence, industry is hereby informed to adopt the suitable additional treatment facility to treat RO permeate to the portable drinking water quality standards, till such time, the industry is here by informed to stop the operation of the plant and shall not supply the water to the general public for drinking purposes. Further, industry is hereby informed to submit the action taken report in this regard within seven days from the date of receipt of this letter, failing which, action deemed fit shall be initiated as per the provisions of Water Act, 1974.

If no reply is received within the stipulated time, it is presumed that, the industry/unit has nothing to say and action as above will be initiated. The receipt of the notice may please be acknowledged.

Yours faithfully

—sd—
Environmental Officer
RO-Sarjapura (Bengaluru)

Copy submitted to:--

1. SEO, Bengaluru South, Nisarga Bhavan, Bengaluru for kind information and it is recommended to issue NPD under the provisions of the Water Act as the industry is not complied with the consent conditions and also not treating the water to the drinking water standards.
2. Chief Officer, TMC – Bommasandra, Attibele Hobli, Anekal Taluk, Bengaluru Urban District for information and to ensure that, unit shall not supply drinking from the industry to the general public.
3. Case file

Environmental Officer
RO-Sarjapura, Bengaluru

ANNEXURE

Parameters	Units	Water Quality Criteria		12-10-2023			25-09-2023	25-09-2023			25-09-2023	25-09-2023	25-09-2023
		AL	PL	Jayarama reddy, near M/s Biocon Ltd Compound, Hebbagodi Village	Sri Venkatappa, Muniswamappa Layout, Hebbagodi Village	Borewell at M/s Biocon Ltd, Hebbagodi	Sri Keshavareddy, 100 Mtrs from Hebbagodi lake, Hebbagodi village	100 Mtrs from Heelalagi lake, Heelalagi village	50 Mtrs from Heelalagi lake at Panduranga Temple, Heelalagi village	20 Mtrs from Heelalagi lake at BMS Water Supply, Heelalagi village	250 Mtrs from Bommasandra lake at Dalia Apartment, Daddies layout	50 Mtrs from Kammasandra lake at Adobe Breeza Apartment	50 Mtrs from Kammasandra lake at Sri Manjunatha, Ananda Nilaya,
pH@25C		6.5-8.5	8.5-8.5	7.3	6.7	7.8	6.8	6.5	6.9	6.9	6.5	6.5	6.5
Turbidity	NTU	1	5	0.7	0.2	0.2	0.1	0.2	1.6	1.6	0.4	0.1	0.1
Total Dissolved Solids	mg/L	500	2000	740	1562	298	1304	1366	1448	1446	1442	1334	1504
Sulphate	mg/L	200	400	42	31	29	29	3	45	45	32	4	24
Chloride	mg/L	250	1000	76	416	72	304	372	560	560	472	352	432
Phenolic Compound	mg/L	0.001	0.002	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nitrate	mg/L	45	45	19	40	7.5	33	34	36	36	36	34	38
Total Hardness	mg/L	200	600	226	524	196	320	692	752	752	736	588	664
Calcium	mg/L	75	200	48	107	42	106	141	160	160	160	120	139
Magnesium	mg/L	30	100	26	82	22	62	82	85	35	82	70	82
Total Alkalinity	mg/L	200	600	388	448	136	400	418	268	268	388	312	492
Fluoride	mg/L	1	1.5	0.22	0.3	0.17	0.2	0.1	0.1	0.1	0.2	0.1	0.1
Ammonia	mg/L	0.5	0.5	0.42	0.58	0.36	0.2	0.2	0.2	0.2	0.2	0.2	0.16
Sulphide	mg/L	0.05	0.05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Boron as B	mg/L	0.5	2.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper	mg/L	0.05	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc	mg/L	5	15	BDL	BDL	BDL	0.007	BDL	0.005	0.005	BDL	0.015	BDL
Nickel	mg/L	0.02	0.02	BDL	BDL	BDL	0.005	BDL	0.004	0.004	0.007	1.073	2.051
Manganese	mg/L	0.1	0.3	BDL	0.152	BDL	0.361	0.141	0.007	0.007	0.003	0.005	0.003
Iron	mg/L	1	1	BDL	BDL	BDL	BDL	BDL	0.114	0.114	BDL	BDL	BDL
Cadmium	mg/L	0.003	0.003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	mg/L	0.01	0.01	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total Chromium	mg/L	0.05	0.05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.007	0.007
Cyanide	mg/L	0.05	0.05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
E-Coli	MPN/100ml	Shall not be detectable in any		Absent	Absent	Absent	Present	Absent	Absent	Absent	BDL	BDL	BDL

Annexure R2

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28-06-2023						28-06-2023	03-11-2023			03-11-2023
Jayarama Reddy, Hebbagodi	Renuka Yellamma Temple, Hebbagodi	Budhanagar, Ward No.14, adjacent to Hebbagodi Lake	Papareddy Building, Hebbagodi	Krishnappa Building, Hebbagodi	Muniswamappa Layout, Hebbagodi	Borewell at M/s Biocon Ltd, Hebbagodi	Jayarama Reddy, Hebbagodi	Sri Venkatappa, Muniswamappa Layout, Hebbagodi Village	Borewell at M/s Biocon Ltd, Hebbagodi	Borewell situated adjacent to Kittaganaha Ili Lake
7.5	8	8	7.6	8	7.7	7.5	7.1	6.5	7.4	6.6
0.1	0.1	0.1	0.1	0.1	0.4	0.9	0.2	0.3	0.7	1.8
818	780	914	332	782	788	340	766	1590	306	2660
31	41	48	6	41	30	11	28	62	10	155
108	88	108	32	88	104	40	124	464	28	1046
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15	14	17	6	14	28.24	8.3	18.62	38.1	7.45	68
252	420	472	160	420	484	212	292	808	152	1586
53	86	98	35	86	98	45	61	163	32	800
29	50	55	18	50	59	24	34	97	18	191
232	396	448	140	400	464	200	392	472	148	460
0.293	0.785	0.91	0.305	0.823	0.83	35	0.21	0.28	0.26	0.14
0.24	0.23	0.27	0.1	0.24	0.14	0.12	0.12	0.14	0.11	0.31
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
0.01	BDL	0.005	0.01	BDL	0.004	BDL	BDL	BDL	BDL	BDL
BDL	BDL	BDL	0.041	BDL	BDL	BDL	BDL	BDL	BDL	BDL
0.016	BDL	0.005	0.023	0.005	0.009	BDL	BDL	BDL	BDL	0.121
0.005	BDL	1.223	BDL	BDL	0.005	0.009	0.003	BDL	BDL	0.013
0.982	BDL	BDL	0.008	0.966	1.357	0.619	0.322	0.006	0.048	1.382
BDL	BDL	BDL	--	BDL	BDL	BDL	0.019	0.038	BDL	0.475
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BDL	BDL	BDL	--	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BDL	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL
BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
--	--	--	--	--	--	--	Absent	Absent	Absent	Absent



**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-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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Website: kspcb.karnataka.gov.in
ಕ.ಸ.ಪ.ಕ.ಬಿ.ನಿ.ಮಂ., "ನಿಸರ್ಗ ಭವನ",
7 ನೇ 'ಡಿ' ಅಡ್ಡರಸ್ತೆ, ತಿಮ್ಮಾiah ರಸ್ತೆ,
ಬೆಂಗಳೂರು, ಕೆಂಠುಕೂರು-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 08-11-2023

NAME OF THE LOCATION :	Jayarama Reddy, Near Biocon Compound, Hebbagodi, Hosur Road, Anekal Taluk, Bengaluru.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :12-10-2023
DATE OF COLLECTION :	12-10-2023	DATE OF COMPLETION OF TEST :27-10-2023
DATE OF RECEIPT :	12-10-2023	SAMPLE REPORT NO. : W-2362
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W-2362

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	7.3	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.7	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	740	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	42	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	76	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate Nitrogen as NO ₃	mg/L	45	45	19	IS 3025 (Part 34): 2019
8	Total Hardness as CaCO ₃	mg/L	200	600	228	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	48	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	26	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	388	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.22	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.42	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Jayarama Reddy, Near Biocon Compound, Hebbagodi, Hosur Road, Anekal Taluk, Bengaluru.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :12-10-2023
DATE OF COLLECTION :	12-10-2023	DATE OF COMPLETION OF TEST :27-10-2023
DATE OF RECEIPT :	12-10-2023	SAMPLE REPORT NO. : W-2362
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W-2362

16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5.0	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	BDL	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.1	0.3	BDL	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium as Cr	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	MPN/ 100 ml	Shall not be detectable in any 100 mL sample		Absent (<1.8)	APHA 23rd edition (9221 G): 2017

INFERENCE	Non Conforms to AL standard with respect to Total Dissolved Solids, Total Alkalinity as CaCO ₃ and Total Hardness as CaCO ₃ , of IS 10500:2012 (Reaffirmed 2018). Conforms to PL of IS 10500:2012 (Reaffirmed 2018).
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Note: 1. The above results pertain only to the sample tested.

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)

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

4. Samples will be stored for a period of 10 days from the date of dispatch of report

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

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S:0.05;Boron as B; 0.1;Cyanide as CN:0.03;

Copper as Cu:0.003;Zinc as Zn:0.003;Nickel as Ni:0.002;Manganese as Mn:0.003;

Total Chromium as Cr:0.004; Iron as Fe:0.017;Cadmium as Cd:0.003;Lead as Pb:0.006.

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 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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ಕ.ಪ.ಪ.ನಿ.ಮಂ., "ನಿರ್ಗ ಭವನ",
7 ನೇ 'ಡಿ' ಅಡ್ಡರಸ್ತೆ, ಕಿಷ್ಕಿಂಧೆ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 08-11-2023

NAME OF THE LOCATION :	Sri. Venkatappa S/o Muniswamyppa No. 4066, 3rd cross, Muniswamappa layout, Hebbagodi, Hosur Road, Anekal Taluk, Bengaluru.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :12-10-2023
DATE OF COLLECTION :	12-10-2023	DATE OF COMPLETION OF TEST :27-10-2023
DATE OF RECEIPT :	12-10-2023	SAMPLE REPORT NO. : W-2363
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W-2363

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.7	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1562	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	31	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	416	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate Nitrogen as NO ₃	mg/L	45	45	40	IS 3025 (Part 34): 2019
8	Total Hardness as CaCO ₃	mg/L	200	600	524	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	107	IS 3025 (Part-10): 2019
10	Magnesium as Mg	mg/L	30	100	62	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	448	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.30	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.58	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Sri. Venkatappa S/o Muniswamyppa No. 4066, 3rd cross, Muniswamappa layout; Hebbagodi, Hosur Road, Anekal Taluk, Bengaluru.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :12-10-2023
DATE OF COLLECTION :	12-10-2023	DATE OF COMPLETION OF TEST :27-10-2023
DATE OF RECEIPT :	12-10-2023	SAMPLE REPORT NO. : W-2363
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W-2363

16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5.0	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	BDL	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.1	0.3	0.012	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium as Cr	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	MPN/ 100 ml	Shall not be detectable in any 100 mL sample		Absent (<1.8)	APHA 23rd edition (9221 G): 2017

INFERENCE	Non Conforms to AL standard with respect to Total Dissolved Solids, Magnesium as Mg, Calcium as Ca, Total Alkalinity as CaCO ₃ and Total Hardness as CaCO ₃ , of IS 10500:2012 (Reaffirmed 2018). Conforms to PL of IS 10500:2012 (Reaffirmed 2018).
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Note: 1. The above results pertain only to the sample tested.

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)

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

4. Samples will be stored for a period of 10 days from the date of dispatch of report

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

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S:0.05;Boron as B; 0.1;Cyanide as CN:0.03;
Copper as Cu:0.003;Zinc as Zn:0.003;Nickel as Ni:0.002;Total Chromium as Cr:0.004;
Iron as Fe:0.017;Cadmium as Cd:0.003;Lead as Pb:0.006.

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



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

26

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:08.11.2023

NAME OF THE LOCATION :	Test Borewell located at R-1 Building of M/s. Biocon Sy. No. 46/1,2,3,43/6A, 47/3A & 47/1,2, Hebbagodi Village, 20th KM, Anekal Taluk, Bengaluru Urban District	Page 1 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 12.10.2023
DATE OF COLLECTION :	12.10.2023	DATE OF COMPLETION OF TEST: 17.10.2023
DATE OF RECEIPT :	12.10.2023	SAMPLE REPORT NO: W- 2364
PARTICULARS	Borewell sample	SAMPLE NO: W- 2364

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	7.8	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	298	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	29	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	72	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	7.5	APHA 23rd Edition (4500 NO ₃ -D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	196	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	42	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	22	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	136	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.17	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.36	IS 3025 (Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S ₂ - F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Test Borewell located at R-1 Building of M/s. Biocon Sy. No. 46/1,2,3,43/6A, 47/3A & 47/1,2, Hebbagodi Village, 20th KM, Anekal Taluk, Bengaluru Urban District	Page 2 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 12.10.2023
DATE OF COLLECTION :	12.10.2023	DATE OF COMPLETION OF TEST: 17.10.2023
DATE OF RECEIPT :	12.10.2023	SAMPLE REPORT NO: W- 2364
PARTICULARS	Borewell sample	SAMPLE NO: W- 2364

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	BDL	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.1	0.3	BDL	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	MPN/100 ml	Shall not be detectable in any 100 mL sample		Absent (<1.8)	APHA 23rd edition (9221G): 2017
INFERENCE		Conforms to AL & PL standard of IS 10500:2012 (Reaffirmed 2018)				

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)
3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report
5. BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Copper as Cu: 0.003; Lead as Pb: 0.006; Zinc as Zn: 0.003; Nickel as Ni: 0.002;

Iron as Fe: 0.017; Manganese as Mn: 0.003; Cadmium as Cd: 0.003; Total Chromium: 0.004 ;

Cyanide as CN: 0.03

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 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-5487
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ಕ.ರಾ.ಪಾ.ನಿ.ಮಂ., "ನಿಸರ್ಗ ಭವನ",
7 ನೇ 'ಡಿ' ಅಡ್ಡರಸ್ತೆ, ಶಿವಮೊಯ್ತೆ ರಸ್ತೆ,
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K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:02.11.2023

NAME OF THE LOCATION :	Borewell situated at a distance of 100 Mtrs from Hebbagodi lake in the land of Sri. Keshava Reddy, Hebbagodi Village, Anekal Taluk, Bengaluru Urban District	Page 1 of 2
SAMPLE COLLECTED BY :	H.R Puttaraju EO RO:Sarjapura	DATE OF COMMENCEMENT OF TEST :26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST :02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2078
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2078

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.8	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.1	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1304	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	29	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	304	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
	Nitrate as NO ₃	mg/L	45	45	33	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	520	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	106	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	62	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	400	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.2	IS 3025 (Part 60) : 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.20	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Borewell situated at a distance of 100 Mtrs from Hebbagodi lake in the land of Sri. Keshava Reddy, Hebbagodi Village, Anekal Taluk, Bengaluru Urban District	Page 2 of 2
SAMPLE COLLECTED BY :	H.R Puttaraju EO RO:Sarjapura	DATE OF COMMENCEMENT OF TEST :26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST :02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2078
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2078

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	0.007	
19	Nickel as Ni	mg/L	0.02	0.02	0.005	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.1	0.3	0.361	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	MPN/100 ml	Shall not be detectable in any 100 mL sample		Present (12)	APHA 23rd edition (9221G): 2017
INFERENCE		Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Total Hardness as CaCO ₃ , Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO ₃ of IS 10500:2012 (Reaffirmed 2018) & Non Conforms to AL & PL standard with respect to Manganese as Mn, E.coli of IS 10500:2012 (Reaffirmed 2018)				

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

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Copper as Cu: 0.003; Lead as Pb: 0.006; Cadmium as Cd: 0.003; Total Chromium: 0.004

Cyanide as CN: 0.03; Iron as Fe: 0.017;

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

30

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:02.11.2023

NAME OF THE LOCATION :	Borewell situated at a distance of 100 Mtrs from Helalage lake at Heelalige Village, Attibele Hobli, Anekal Taluk, Bengaluru Urban District	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST :02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2075
ARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2075

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.5	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1366	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	3.0	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	372	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	34	APHA 23rd Edition (4500 NO3-D): 2017
	Total Hardness as CaCO ₃	mg/L	200	600	692	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	141	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	82.0	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	416	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.1	IS 3025 (Part 60) : 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.2	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

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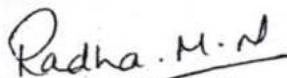
NAME OF THE LOCATION :	Borewell situated at a distance of 100 Mtrs from Helalagi lake at Heelalige Village, Attibele Hobli, Anekal Taluk, Bengaluru Urban District	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST : 02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2075
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2075

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	BDL	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.1	0.3	0.141	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	
25	E.coli	MPN/100 ml	Shall not be detectable in any 100 mL sample		Absent	
INFERENCE		Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO ₃ , Manganese as Mn of IS 10500:2012 (Reaffirmed 2018) & Non Conforms to AL & PL standard with respect to Total Hardness as CaCO ₃ of IS 10500:2012 (Reaffirmed 2018)				

- Note:**
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 - 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 dispatch of report
 - BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Copper as Cu: 0.003; Lead as Pb: 0.006; Zinc as Zn: 0.003; Cadmium as Cd: 0.003;
Total Chromium: 0.004 ; Cyanide as CN: 0.03; Nickel as Ni: 0.003; Iron as Fe: 0.017;


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


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

----End of Report----



TC-5487



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7 ನೇ 'ಡಿ' ಅಡ್ಡರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:02.11.2023

NAME OF THE LOCATION :	Borewell No. 2 situated at distance of 50 Mtrs from Helalage lake at Panduranga Temple, Heelalige Village, Attibele Hobli, Anekal Taluk, Bengaluru Urban District	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST :02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2074
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2074

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.5	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.1	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1380	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	2.0	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	444	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	35	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	608	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	123	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	73	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	352	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.1	IS 3025 (Part 60) : 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.2	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :		Borewell No. 2 situated at distance of 50 Mtrs from Helalagi lake at Panduranga Temple, Heelalige Village, Attibele Hobli, Anekal Taluk, Bengaluru Urban District			Page 2 of 2	
SAMPLE COLLECTED BY :		Dr. H.R Puttaraju EO RO: Sarjapura		DATE OF COMMENCEMENT OF TEST : 26.09.2023		
DATE OF COLLECTION :		25.09.2023		DATE OF COMPLETION OF TEST : 02.11.2023		
DATE OF RECEIPT :		26.09.2023		SAMPLE REPORT NO. : W- 2074		
PARTICULARS		Borewell Water Sample		SAMPLE NO. : W- 2074		
Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	0.017	
19	Nickel as Ni	mg/L	0.02	0.02	BDL	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.1	0.3	BDL	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	
25	E.coli	MPN/100 ml	Shall not be detectable in any 100 mL sample		Absent	
INFERENCE		<p>Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO₃ of IS 10500:2012 (Reaffirmed 2018) & Non Conforms to AL & PL standard with respect to Total Hardness as CaCO₃ of IS 10500:2012 (Reaffirmed 2018)</p>				

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

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Copper as Cu: 0.003; Lead as Pb: 0.006; Cadmium as Cd: 0.003; Total Chromium: 0.004 ;
 Cyanide as CN: 0.03; Nickel as Ni: 0.003; Iron as Fe: 0.017; Manganese as Mn: 0.003;

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---



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

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:02.11.2023

NAME OF THE LOCATION :	Borewell situated at a distance of 20 Mtrs from Helalage lake at BMS Water Supply, Heelalige Village, Attibele Hobli, Anekal Taluk	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST :02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2073
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2073

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.9	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	1.6	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1446	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	45	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	560	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	36	APHA 23rd Edition (4500 NO3-D): 2017
	Total Hardness as CaCO ₃	mg/L	200	600	752	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	160	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	85	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	268	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.1	IS 3025 (Part 60) : 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.2	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Borewell situated at a distance of 20 Mtrs from Helalagi lake at BMS Water Supply, Heelalige Village, Attibele Hobli, Anekal Taluk	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST : 02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2073
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2073

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	0.005	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	0.004	
19	Nickel as Ni	mg/L	0.02	0.02	0.007	
20	Iron as Fe	mg/L	1.0	1.0	0.114	
21	Manganese as Mn	mg/L	0.1	0.3	0.049	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	MPN/100 ml	Shall not be detectable in any 100 mL sample		Absent	APHA 23rd edition (9221G): 2017
INFERENCE		<p>Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO₃ of IS 10500:2012 (Reaffirmed 2018) &</p> <p>Non Conforms to AL & PL standard with respect to Total Hardness as CaCO₃ of IS 10500:2012 (Reaffirmed 2018)</p>				

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)
3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report
5. BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Lead as Pb: 0.006; Cadmium as Cd: 0.003; Total Chromium: 0.004 ; Cyanide as CN: 0.03

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 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:02.11.2023

NAME OF THE LOCATION :	Borewell situated at a distance of 250 Mtrs from Bommasandra lake at Daliya Apartment, Daddies Garden Layout, Kammasandra Village, Anekal Taluk	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST :02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2072
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2072

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.5	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.4	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1442	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	32	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	472	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	36	APHA 23rd Edition (4500 NO3-D): 2017
	Total Hardness as CaCO ₃	mg/L	200	600	736	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	160	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	82	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	388	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.2	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.2	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Borewell situated at a distance of 250 Mtrs from Bommasandra lake at Daliya Apartment, Daddies Garden Layout, Kammasandra Village, Anekal Taluk	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju EO RO:Sarjapura	DATE OF COMMENCEMENT OF TEST :26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST :02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2072
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2072

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	0.007	
19	Nickel as Ni	mg/L	0.02	0.02	0.003	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.1	0.3	0.057	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	MPN/100 ml	Shall not be detectable in any 100 mL sample		Absent	APHA 23rd edition (9221G): 2017
INFERENCE		<p>Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO₃ of IS 10500:2012 (Reaffirmed 2018) &</p> <p>Non Conforms to AL & PL standard with respect to Total Hardness as CaCO₃ of IS 10500:2012 (Reaffirmed 2018)</p>				

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)

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

4. Samples will be stored for a period of 10 days from the date of dispatch of report

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

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Copper as Cu: 0.003; Lead as Pb: 0.006; Cadmium as Cd: 0.003; Total Chromium: 0.004

Cyanide as CN: 0.03; Iron as Fe: 0.017;

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



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7 ನೇ 'ಡಿ' ಅಡ್ಡರಸ್ತೆ, ಕಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
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7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:02.11.2023

NAME OF THE LOCATION :	Borewell situated at a distance of 50 Mtrs from Kammasandra lake at Sri. Manjunatha, Ananda Nilaya, Daddies Garden Road, Kammasandra Village, Anekal Taluk		Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju EO RO:Sarjapura	DATE OF COMMENCEMENT OF TEST :26.09.2023	
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST : 02.11.2023	
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2070	
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2070	

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.5	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.1	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1504	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	24	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	432	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
	Nitrate as NO ₃	mg/L	45	45	38	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	684	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	139	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	82	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	492	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.1	IS 3025 (Part 60) : 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.16	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Borewell situated at a distance of 50 Mtrs from Kammasandra lake at Sri. Manjunatha, Ananda Nilaya, Daddies Garden Road, Kammasandra Village, Anekal Taluk	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST : 02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2070
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2070

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method	
			AL	PL			
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017	
17	Lead as Pb	mg/L	0.01	0.01	0.007		
18	Zinc as Zn	mg/L	5	15	2.051		
19	Nickel as Ni	mg/L	0.02	0.02	0.003		
20	Iron as Fe	mg/L	1.0	1.0	BDL		
21	Manganese as Mn	mg/L	0.1	0.3	0.017		
22	Cadmium as Cd	mg/L	0.003	0.003	BDL		
23	Total Chromium	mg/L	0.05	0.05	BDL		
24	Cyanide as CN	mg/L	0.05	0.05	BDL		IS 3025(Part 27): 2021
25	E.coli	MPN/100 ml	Shall not be detectable in any 100 mL sample		Absent		APHA 23rd edition (9221G): 2017
INFERENCE		<p>Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO₃ of IS 10500:2012 (Reaffirmed 2018) &</p> <p>Non Conforms to AL & PL standard with respect to Total Hardness as CaCO₃ of IS 10500:2012 (Reaffirmed 2018)</p>					

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

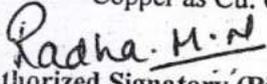
2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)

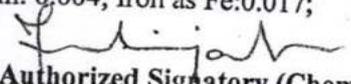
3. The report shall not be reproduced without the written approval of the laboratory.

4. Samples will be stored for a period of 10 days from the date of dispatch of report

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

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1; Cyanide as CN: 0.03
Copper as Cu: 0.003; Cadmium as Cd: 0.003; Total Chromium: 0.004; Iron as Fe: 0.017;


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


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

----End of Report----



TC-5487



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Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:02.11.2023

NAME OF THE LOCATION :	Borewell situated at a distance of 50 Mtrs from Kammasandra lake at Abode Breeza Apartment, Sy. No. 73, Daddies Garden Layout, Bommasandra-Kammasandra, Anekal Taluk	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju EO RO:Sarjapura	DATE OF COMMENCEMENT OF TEST :26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST :02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2071
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2071

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.5	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.1	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1334	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	4.0	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	352	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
	Nitrate as NO ₃	mg/L	45	45	34	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	588	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	120	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	70	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	512	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.1	IS 3025 (Part 60) : 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.2	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Borewell situated at a distance of 50 Mtrs from Kammasandra lake at Abode Breeza Apartment, Sy. No. 73, Daddies Garden Layout, Bommasandra-Kammasandra, Anekal Taluk	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 26.09.2023
DATE OF COLLECTION :	25.09.2023	DATE OF COMPLETION OF TEST : 02.11.2023
DATE OF RECEIPT :	26.09.2023	SAMPLE REPORT NO. : W- 2071
PARTICULARS	Borewell Water Sample	SAMPLE NO. : W- 2071

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	0.015	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	0.007	
18	Zinc as Zn	mg/L	5	15	1.073	
19	Nickel as Ni	mg/L	0.02	0.02	0.005	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.1	0.3	0.233	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	MPN/100 ml	Shall not be detectable in any 100 mL sample		Absent	APHA 23rd edition (9221G): 2017
INFERENCE		<p>Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Total Hardness as CaCO₃, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO₃ of IS 10500:2012 (Reaffirmed 2018) & Conforms to PL standard with respect of IS 10500:2012 (Reaffirmed 2018)</p>				

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)
3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report
5. BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Cadmium as Cd: 0.003; Total Chromium: 0.004 ; Cyanide as CN: 0.03 Iron as Fe: 0.017;

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----

Borewell sample results collected in the Chandapura lake catchment area for the month November - 2023

Parameters	Units	Water Quality Criteria		22.11.2023											
		AL	PL	MDVR Apartment, SV Shelter, Heelalagi gate	Heelalagi Gunduthopu	Ward No.7 near Church, Yellamma nagar,	Ward No.7 Sandeepkumar, Neelagiri Topu, Yellamma nagar,	Chennareddy, Yellamma nagar,	20 Mtrs from Heelalagi Lake, BMS Water Supply, Heelalagi Village	Tejus Buidling, Heelalagi Village	50 Mtrs from Heelalagi lake at Panduranga Temple, Heelalagi village	PHC, Adjacent to Chandapura lake	200 Mtrs from Chandapura lake, Chandapura Market	Akshay Car Services, 100 Mtrs from Chandapura lake, Chandapura Village	Mudda Birappa building, Heelalagi gate, near Chandapura lake
pH@25C		6.5-8.5	6.5-8.5	6.5	6.8	6.7	6.9	6.8	6.6	6.5	6.8	6.5	6.6	6.4	6.5
Turbidity	NTU	1	5	0.3	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2
Total Dissolved Solids	mg/L	500	2000	1406	1238	1514	1614	1516	1384	1312	1310	1208	1178	1202	1212
Sulphate	mg/L	200	400	57	40	41	45	42	47	33	33	46	45	36	48
Chloride	mg/L	250	1000	500	404	508	604	516	508	436	132	516	504	488	560
Phenolic Compound	mg/L	0.001	0.002	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nitrate	mg/L	45	45	39	30	41	43	41	33	31	31	34	37	33	36
Total Hardness	mg/L	200	600	792	704	936	904	948	788	688	680	684	516	776	508
Calcium	mg/L	75	200	160	142	189	182	190	158	139	138	138	106	160	104
Magnesium	mg/L	30	100	95	85	113	109	115	95	83	82	83	61	91	60
Total Alkalinity	mg/L	200	600	396	360	412	380	416	340	400	404	416	408	436	392
Fluoride	mg/L	1	1.5	0.2	0.14	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.13	0.11	0.1
Ammonia	mg/L	0.5	0.5	0.18	0.11	0.19	0.18	0.17	0.16	0.14	0.12	0.28	0.3	0.27	0.26
Sulphide	mg/L	0.05	0.05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Boron as B	mg/L	0.5	2.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper	mg/L	0.05	1.5	0.004	0.005	BDL	0.005	0.004	BDL	0.005	BDL	BDL	BDL	BDL	BDL
Zinc	mg/L	5	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.095	0.017	0.009	0.016
Nickel	mg/L	0.02	0.02	0.003	BDL	0.003	0.004	0.003	0.007	0.005	0.003	0.172	BDL	BDL	BDL
Manganese	mg/L	0.1	0.3	0.118	0.009	0.004	0.283	0.026	0.492	0.293	0.004	0.141	0.347	0.657	0.065
Iron	mg/L	1	1	0.05	0.093	0.04	0.278	BDL	0.077	0.087	0.081	0.558	0.271	0.075	0.173
Cadmium	mg/L	0.003	0.003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	mg/L	0.01	0.01	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total Chromium	mg/L	0.05	0.05	0.005	0.011	BDL	BDL	BDL	BDL	BDL	BDL	0.008	BDL	BDL	BDL
Cyanide	mg/L	0.05	0.05	BDL	BDL	BDL	BDL	BDL	BDL	0.012	0.005	0.008	BDL	0.007	0.027
E-Coll	MPN/100ml	Shall not be detectable in any 100 ml sample		Absent	Present	Present	Present	Present	Absent	Present	Present	Present	Present	Present	Present

Annexure - III A



TC-5487



**KARNATAKA STATE POLLUTION CONTROL BOARD
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Silivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 16.12.2023

NAME OF THE LOCATION :	Borewell situated at Market of Chandapura village at distance of 200 Mtrs from Chandapura lake TMC Chandapura, Chandapura Village, Anekal Taluk, Bengaluru	Page 1 of 2
SAMPLE COLLECTED BY :	Smt. Padmavathi. R AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 23.11.2023
DATE OF COLLECTION :	22.11.2023	DATE OF COMPLETION OF TEST: 28.11.2023
DATE OF RECEIPT :	22.11.2023	SAMPLE REPORT NO: W- 2822
PARTICULARS	Borewell sample	SAMPLE NO: W- 2822

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.6	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1178	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	45	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	504	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	37	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	516	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	106	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	61	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	408	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.13	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.30	IS 3025 (Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Borewell situated at Market of Chandapura village at distance of 200 Mtrs from Chandapura lake TMC Chandapura, Chandapura Village, Anekal Taluk, Bengaluru	Page 2 of 2
SAMPLE COLLECTED BY :	Smt. Padmavathi. R AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 23.11.2023
DATE OF COLLECTION :	22.11.2023	DATE OF COMPLETION OF TEST: 28.11.2023
DATE OF RECEIPT :	22.11.2023	SAMPLE REPORT NO: W- 2822
PARTICULARS	Borewell sample	SAMPLE NO: W- 2822

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method	
			AL	PL			
16	Copper as Cu	mg/L	0.05	1.5	0.017	APHA 23rd edition (3125B): 2017	
17	Lead as Pb	mg/L	0.01	0.01	BDL		
18	Zinc as Zn	mg/L	5	15	BDL		
19	Nickel as Ni	mg/L	0.02	0.02	0.003		
20	Iron as Fe	mg/L	1.0	1.0	0.271		
21	Manganese as Mn	mg/L	0.1	0.3	0.347		
22	Cadmium as Cd	mg/L	0.003	0.003	BDL		
23	Total Chromium	mg/L	0.05	0.05	BDL		
24	Cyanide as CN	mg/L	0.05	0.05	BDL		IS 3025(Part 27): 2021
25	E.coli	CFU 100 ml	Shall not be detectable in any 100 mL sample		Absent		IS 15185:2016
INFERENCE		<p>Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Calcium as Ca, Magnesium as Mg, Total Hardness as CaCO₃, Total Alkalinity as CaCO₃, Manganese as Mn 3 of IS 10500:2012 (Reaffirmed 2018)</p> <p>Conforms to PL standard of IS 10500:2012 (Reaffirmed 2018)</p>					

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)
3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report
5. BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Lead as Pb: 0.006; Zinc as Zn: 0.003; Cadmium as Cd: 0.003;

Total Chromium: 0.004; Cyanide as CN: 0.03

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 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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7ನೇ ಡಿ.ಕ್ರಾಸ್, ಶಿವಮೊಗ್ಗ ರೋಡ್,
ಶಿವಮೊಗ್ಗ, ಕರ್ನಾಟಕ-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmash Road,
Shivamogga, Bengaluru-560079

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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:16.12.2023

NAME OF THE LOCATION :	Borewell water sample collected near Akshaya Car Service, Chandapura lake, Chandapura, Anekal Taluk, Bengaluru	Page 1 of 2
SAMPLE COLLECTED BY :	Smt. Padmavathi. R AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 23.11.2023
DATE OF COLLECTION :	22.11.2023	DATE OF COMPLETION OF TEST: 28.11.2023
DATE OF RECEIPT :	22.11.2023	SAMPLE REPORT NO: W- 2823
PARTICULARS	Borewell sample	SAMPLE NO: W- 2823

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.4	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1202	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	36	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	488	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	33	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	776	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	160	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	91	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	436	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.11	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.27	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Borewell water sample collected near Akshaya Car Service, Chandapura lake, Chandapura, Anekal Taluk, Bengaluru	Page 2 of 2
SAMPLE COLLECTED BY :	Smt. Padmavathi. R AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 23.11.2023
DATE OF COLLECTION :	22.11.2023	DATE OF COMPLETION OF TEST: 28.11.2023
DATE OF RECEIPT :	22.11.2023	SAMPLE REPORT NO: W- 2823
PARTICULARS	Borewell sample	SAMPLE NO: W- 2823

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	0.009	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	0.005	
20	Iron as Fe	mg/L	1.0	1.0	0.075	
21	Manganese as Mn	mg/L	0.1	0.3	0.657	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	0.007	
24	Cyanide as CN ⁻	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	CFU 100 ml	Shall not be detectable in any 100 mL sample		Absent	IS 15185:2016
INFERENCE		<p>Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO₃ of IS 10500:2012 (Reaffirmed 2018)</p> <p>Non Conforms to AL & PL standard with respect to Manganese as Mn, Total Hardness as CaCO₃, of IS 10500:2012 (Reaffirmed 2018)</p>				

- Note:**
1. The above results pertain only to the sample tested.
 2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)
 3. The report shall not be reproduced without the written approval of the laboratory.
 4. Samples will be stored for a period of 10 days from the date of dispatch of report
 5. BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Lead as Pb: 0.006; Zinc as Zn: 0.003; Cadmium as Cd: 0.003; Cyanide as CN: 0.03

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 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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Shivamogga, Bengaluru-560079

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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:16.12.2023

NAME OF THE LOCATION :	Borewell water sample collected near Muddda Birappa s/o. Chanappa Building, Heelalige gate, Near Chandapura lake, Chandapura, Anekal Taluk, Bengaluru	Page 1 of 2
SAMPLE COLLECTED BY :	Smt. Padmavathi. R AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 23.11.2023
DATE OF COLLECTION :	22.11.2023	DATE OF COMPLETION OF TEST: 28.11.2023
DATE OF RECEIPT :	22.11.2023	SAMPLE REPORT NO: W- 2824
PARTICULARS	Borewell sample	SAMPLE NO: W- 2824

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.5	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1212	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	48	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	560	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	36	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	508	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	104	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	60	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	392	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.10	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.26	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Borewell water sample collected near Muddda Birappa s/o. Chanappa Building, Heelalige gate, Near Chandapura lake, Chandapura, Anekal Taluk, Bengaluru	Page 2 of 2
SAMPLE COLLECTED BY :	Smt. Padmavathi. R AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 23.11.2023
DATE OF COLLECTION :	22.11.2023	DATE OF COMPLETION OF TEST: 28.11.2023
DATE OF RECEIPT :	22.11.2023	SAMPLE REPORT NO: W- 2824
PARTICULARS	Borewell sample	SAMPLE NO: W- 2824

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	0.016	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	0.004	
20	Iron as Fe	mg/L	1.0	1.0	0.173	
21	Manganese as Mn	mg/l.	0.1	0.3	0.065	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	0.027	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	CFU 100 ml	Shall not be detectable in any 100 mL sample		Present (35)	IS 15185:2016
INFERENCE		<p>Non Conforms to AL standard with resepect to Total Dissolved Solids, Chloride as Cl, Calcium as Ca, Magnesium as Mg, Total Hardness as CaCO₃, Total Alkalinity as CaCO₃, of IS 10500:2012 (Reaffirmed 2018)</p> <p>Non Conforms to AL & PL standard with resepect to E.coli of IS 10500:2012 (Reaffirmed 2018)</p>				

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)

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

4. Samples will be stored for a period of 10 days from the date of dispatch of report

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

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Lead as Pb: 0.006; Zinc as Zn: 0.003; Cadmium as Cd: 0.003; Cyanide as CN: 0.03

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

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

---End of Report---



TC-5487



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CENTRAL ENVIRONMENTAL LABORATORY

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ISO/IEC 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-5487
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Website: kspcb.karnataka.gov.in
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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 15-12-2023

NAME OF THE LOCATION :	Borewell No.2 situated at distance of 50mtrs from Heelalagi lake at Panduranga temple, Heelaligi Village, Attibele hobli, Anekal Tq, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2829
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2829

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.8	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.3	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1310	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	33	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	432	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate Nitrogen as NO ₃	mg/L	45	45	31	IS 3025 (Part 34): 2019
	Total Hardness as CaCO ₃	mg/L	200	600	680	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	138	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	82	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	404	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.10	IS 3025 (Part 60) :2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.12	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O



NAME OF THE LOCATION :	Borewell No.2 situated at distance of 50mtrs from Heelalagi lake at Panduranga temple, Heelaligi Village, Attibele hobli, Anekal Tq, Bengaluru Urban District.	
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023 .	SAMPLE REPORT NO. : W-2829
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2829

16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017	
17	Lead as Pb	mg/L	0.01	0.01	BDL		
18	Zinc as Zn	mg/L	5.0	15	BDL		
19	Nickel as Ni	mg/L	0.02	0.02	0.003		
20	Iron as Fe	mg/L	1.0	1.0	0.081		
21	Manganese as Mn	mg/L	0.1	0.3	0.004		
22	Cadmium as Cd	mg/L	0.003	0.003	BDL		
23	Total Chromium as Cr	mg/L	0.05	0.05	0.005		
24	Cyanide as CN	mg/L	0.05	0.05	BDL		IS 3025(Part 27): 2021
25	E.coli	CFU/100 ml	Shall not be detectable in any 100 mL sample		Present (1352)		IS 15185:2016

INFERENCE
 Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO₃, of IS 10500:2012 (Reaffirmed 2018).
 Non Conforms to AL & PL with respect to Total Hardness as CaCO₃, E.coli of IS 10500:2012 (Reaffirmed 2018).

- Note: 1. The above results pertain only to the sample tested.
 2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source).
 3. The report shall not be reproduced without the written approval of the laboratory.
 4. Samples will be stored for a period of 10 days from the date of dispatch of report .
 5. BDL: Below Detection Level in mg/L.
 Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S:0.05; Boron as B: 0.1; Cyanide as CN:0.03;
 Cadmium as Cd:0.003; Lead as Pb:0.006; Zinc as Zn:0.003; Copper as Cu:0.003.

Radha M.N

Authorized Signatory (Biological)
 (Radha M.N)

Farhath Jabeen

Authorized Signatory (Chemical)
 (Farhath Jabeen)



TC-5487



KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

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7 ಅಡಿ ಹೆಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು ರಸ್ತೆ,
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7th D Cross, Thummaiah Road,
Shivanagar, Bengaluru-560079

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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 15-12-2023

NAME OF THE LOCATION :	Borewell water sample collected near Tejas Building, near Heelalige Lake, Heelalige Anekal Tq, Bengaluru.	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2828
ARTICULARS :	Borewell water sample	SAMPLE NO. : W-2828

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.5	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1312	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	33	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	436	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate Nitrogen as NO ₃	mg/L	45	45	31	IS 3025 (Part 34): 2019
8	Total Hardness as CaCO ₃	mg/L	200	600	688	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	139	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	83	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	400	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.10	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.14	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O



NAME OF THE LOCATION :	Borewell water sample collected near Tejas Building, near Heelalige Lake, Heelalige Anekal Tq, Bengaluru.	
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2828
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2828

16	Copper as Cu	mg/L	0.05	1.5	0.005	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5.0	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	0.005	
20	Iron as Fe	mg/L	1.0	1.0	0.087	
21	Manganese as Mn	mg/L	0.1	0.3	0.293	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium as Cr	mg/L	0.05	0.05	0.012	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	
25	E.coli	CFU/ 100 ml	Shall not be detectable in any 100 mL sample		Present (08)	

INFERENCE

Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO₃, of IS 10500:2012 (Reaffirmed 2018).
Non Conforms to AL & PL with respect to Total Hardness as CaCO₃, E.coli of IS 10500:2012 (Reaffirmed 2018).

- Note: 1. The above results pertain only to the sample tested.
2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source).
3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report.
5. BDL: Below Detection Level in mg/L.
Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S:0.05; Boron as B; 0.1; Cyanide as CN:0.03;
Cadmium as Cd:0.003; Lead as Pb:0.006; Zinc as Zn:0.003; Total Chromium as Cr:0.004.

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 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-5487
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Slavanagar, Bengaluru-560079

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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 15-12-2023

NAME OF THE LOCATION :	Borewell water sample collected near MDVR Apartment, SV Shelters, sy.no.99/1, 100/1 and 100/2 Heelalige gate, Chandapura, Anekal Tq, Bengaluru.	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2825
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2825

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.5	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.3	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1406	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	47	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	500	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate Nitrogen as NO ₃	mg/L	45	45	39	IS 3025 (Part 34): 2019
8	Total Hardness as CaCO ₃	mg/L	200	600	792	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	160	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	95	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	396	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.20	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.18	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O



NAME OF THE LOCATION :	Borewell water sample collected near MDVR Apartment, SV Shelters, sy.no.99/1, 100/1 and 100/2 Heelalige gate, Chandapura, Anekal Tq, Bengaluru.	Page 2 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2825
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2825

16	Copper as Cu	mg/L	0.05	1.5	0.004	APHA 23rd edition (3125B): 2017	
17	Lead as Pb	mg/L	0.01	0.01	BDL		
18	Zinc as Zn	mg/L	5.0	15	BDL		
19	Nickel as Ni	mg/L	0.02	0.02	0.003		
20	Iron as Fe	mg/L	1.0	1.0	0.050		
21	Manganese as Mn	mg/L	0.1	0.3	0.118		
22	Cadmium as Cd	mg/L	0.003	0.003	BDL		
23	Total Chromium as Cr	mg/L	0.05	0.05	0.005		
24	Cyanide as CN	mg/L	0.05	0.05	BDL		IS 3025(Part 27): 2021
25	E.coli	CFU/100 ml	Shall not be detectable in any 100 mL sample		Absent		IS 15185:2016

INFERENCE	Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO ₃ , of IS 10500:2012 (Reaffirmed 2018). Non Conforms to AL & PL with respect to Total Hardness as CaCO ₃ of IS 10500:2012 (Reaffirmed 2018).
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- Note: 1. The above results pertain only to the sample tested.
2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source).
3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report.
5. BDL: Below Detection Level in mg/L.
Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S:0.05; Boron as B; 0.1; Cyanide as CN:0.03;
Cadmium as Cd:0.003; Lead as Pb:0.006; Zinc as Zn:0.003.

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 17025:2017 accredited Testing Laboratory by NABL, vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 15-12-2023

NAME OF THE LOCATION :	Borewell water sample collected from the Borewell located at Heelalige Gunduthopu. (GPRS:12°48'35"N+77°42'32"E)	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2826
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2826

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.8	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1236	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	40	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	404	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate Nitrogen as NO ₃	mg/L	45	45	30	IS 3025 (Part 34): 2019
8	Total Hardness as CaCO ₃	mg/L	200	600	704	IS 3025 (Part 21): 2019
	Calcium as Ca	mg/L	75	200	142	IS 3025 (Part-10): 2019
10	Magnesium as Mg	mg/L	30	100	85	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	360	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.14	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.11	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O



NAME OF THE LOCATION :	Borewell water sample collected from the Borewell located at Heelalige Gunduthopu. (GPRS:12°48'35"N+77°42'32"E)	Page 2 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2826
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2826

16	Copper as Cu	mg/L	0.05	1.5	0.005	APHA 23rd edition (3125B): 2017	
17	Lead as Pb	mg/L	0.01	0.01	BDL		
18	Zinc as Zn	mg/L	5.0	15	BDL		
19	Nickel as Ni	mg/L	0.02	0.02	BDL		
20	Iron as Fe	mg/L	1.0	1.0	0.093		
21	Manganese as Mn	mg/L	0.1	0.3	0.009		
22	Cadmium as Cd	mg/L	0.003	0.003	BDL		
23	Total Chromium as Cr	mg/L	0.05	0.05	0.011		
24	Cyanide as CN	mg/L	0.05	0.05	BDL		IS 3025(Part 27): 2021
25	E.coli	CFU/100 ml	Shall not be detectable in any 100 mL sample		Present (57)		IS 15185:2016

INFERENCE	Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO ₃ , of IS 10500:2012 (Reaffirmed 2018). Non Conforms to AL & PL with respect to Total Hardness as CaCO ₃ , E.coli of IS 10500:2012 (Reaffirmed 2018).
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- Note: 1. The above results pertain only to the sample tested.
2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source).
3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report.
5. BDL: Below Detection Level in mg/L.
Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S:0.05; Boron as B; 0.1; Cyanide as CN:0.03; Nickel as Ni:0.002; Cadmium as Cd:0.003; Lead as Pb:0.006; Zinc as Zn:0.003.

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



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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 15-12-2023

NAME OF THE LOCATION :	Borewell situated at a distance of 20mtrs from Helalagi Lake at BMS Water supply, Heelalige Village, Attibele Hobli, Anekal Tq, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2827
ARTICULARS :	Borewell water sample	SAMPLE NO. : W-2827

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.6	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.3	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1384	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	47	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	508	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate Nitrogen as NO ₃	mg/L	45	45	33	IS 3025 (Part 34): 2019
8	Total Hardness as CaCO ₃	mg/L	200	600	788	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	158	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	95	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	340	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.10	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.16	IS 3025(Part 31): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O



NAME OF THE LOCATION :	Borewell situated at a distance of 20mtrs from Helalagi Lake at BMS Water supply, Heelalige Village, Attibele Hobli, Anekal Tq, Bengaluru Urban District.	
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2827
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2827

16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5.0	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	0.007	
20	Iron as Fe	mg/L	1.0	1.0	0.077	
21	Manganese as Mn	mg/L	0.1	0.3	0.492	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium as Cr	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	
25	E.coli	CFU/100 ml	Shall not be detectable in any 100 mL sample		Absent	

INFERENCE	Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO ₃ , of IS 10500:2012 (Reaffirmed 2018). Non Conforms to AL & PL with respect to Total Hardness as CaCO ₃ , Manganese as Mn, of IS 10500:2012 (Reaffirmed 2018).
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- Note: 1. The above results pertain only to the sample tested.
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3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report.
5. BDL: Below Detection Level in mg/L.-
Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S:0.05; Boron as B; 0.1; Cyanide as CN:0.03;
Copper as Cu:0.003; Nickel as Ni:0.002; Cadmium as Cd:0.003; Lead as Pb:0.006;
Zinc as Zn:0.003; Total Chromium as Cr:0.004.

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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59

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 15-12-2023

NAME OF THE LOCATION :	Borewell water sample collected Ward No.7, near Church, Yallamma nagar, (Chandapura lake-distance 100mtrs), Anekal Tq, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2830
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2830

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.7	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1514	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	41	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	508	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate Nitrogen as NO ₃	mg/L	45	45	41	IS 3025 (Part 34): 2019
8	Total Hardness as CaCO ₃	mg/L	200	600	936	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	189	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	113	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	412	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.10	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.19	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O



NAME OF THE LOCATION :	Borewell water sample collected Ward No.7, near Church, Yallamma nagar, (Chandapura lake-distance 100mtrs), Anekal Tq, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2830
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2830

Sl. No.	Parameter	Unit	Observed Value	AL	PL	Remarks	
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017	
17	Lead as Pb	mg/L	0.01	0.01	BDL		
18	Zinc as Zn	mg/L	5.0	15	BDL		
19	Nickel as Ni	mg/L	0.02	0.02	0.003		
20	Iron as Fe	mg/L	1.0	1.0	0.040		
21	Manganese as Mn	mg/L	0.1	0.3	0.004		
22	Cadmium as Cd	mg/L	0.003	0.003	BDL		
23	Total Chromium as Cr	mg/L	0.05	0.05	BDL		
24	Cyanide as CN	mg/L	0.05	0.05	BDL		IS 3025(Part 27): 2021
25	E.coli	CFU/100 ml	Shall not be detectable in any 100 mL sample		Present (158)		IS 15185:2016

INFERENCE	Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride, Calcium as Ca, Total Alkalinity as CaCO ₃ , of IS 10500:2012 (Reaffirmed 2018). Non Conforms to AL & PL with respect to Total Hardness as CaCO ₃ , Magnesium as Mg, E.coli of IS 10500:2012 (Reaffirmed 2018).
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- Note: 1. The above results pertain only to the sample tested.
2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source).
3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report .
5. BDL: Below Detection Level in mg/L.
Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S:0.05; Boron as B; 0.1; Cyanide as CN:0.03;
Copper as Cu:0.003; Cadmium as Cd:0.003; Lead as Pb:0.006; Zinc as Zn:0.003;
Total Chromium as Cr:0.004.

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

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



TC-5487



**KARNATAKA STATE POLLUTION CONTROL BOARD
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61

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 16.12.2023

NAME OF THE LOCATION :	Borewell situated adjacent to Chandapura lake PHC Chandapura, Chandapura Village, Attibele Hobli, Anekal Taluk	Page 1 of 2
SAMPLE COLLECTED BY :	Smt. Padmavathi. R AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 23.11.2023
DATE OF COLLECTION :	22.11.2023	DATE OF COMPLETION OF TEST: 28.11.2023
DATE OF RECEIPT :	22.11.2023	SAMPLE REPORT NO: W- 2821
PARTICULARS	Borewell sample	SAMPLE NO: W- 2821

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.5	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1208	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	46	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	516	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	34	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	684	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	138	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	83	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	416	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.11	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.28	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Borewell situated adjacent to Chandapura lake PHC Chandapura, Chandapura Village, Attibele Hobli, Anekal Taluk	Page 2 of 2
SAMPLE COLLECTED BY :	Smt. Padmavathi. R AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 23.11.2023
DATE OF COLLECTION :	22.11.2023	DATE OF COMPLETION OF TEST: 28.11.2023
DATE OF RECEIPT :	22.11.2023	SAMPLE REPORT NO: W- 2821
PARTICULARS	Borewell sample	SAMPLE NO: W- 2821

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	0.095	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	0.008	
18	Zinc as Zn	mg/L	5	15	0.172	
19	Nickel as Ni	mg/L	0.02	0.02	0.008	
20	Iron as Fe	mg/L	1.0	1.0	0.558	
21	Manganese as Mn	mg/L	0.1	0.3	0.141	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	0.008	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	CFU 100 ml	Shall not be detectable in any 100 mL sample		Present (320)	IS 15185:2016
INFERENCE		<p>Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO₃ of IS 10500:2012 (Reaffirmed 2018)</p> <p>Non Conforms to AL & PL standard with respect to Total Hardness as CaCO₃, E. coli of IS 10500:2012 (Reaffirmed 2018)</p>				

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)
3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report
5. BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1
Cadmium as Cd: 0.003; Cyanide as CN: 0.03

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 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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7^{ನೇ} ಡಿ ಕ್ರಾಸ್, ಶಿವನಗರ, ಬೆಂಗಳೂರು, ಕೆ.ಆರ್.ನಗರ,
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7th D Cross, Thimmanah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 15-12-2023

NAME OF THE LOCATION :	Borewell water sample collected Channareddy s/o Chinnaswamy Reddy, Yallamma nagar, (Chandapura lake-distance 500mtrs), Anekal Tq, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi,R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2832
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2832

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.8	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1516	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	42	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	516	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate Nitrogen as NO ₃	mg/L	45	45	41	IS 3025 (Part 34): 2019
8	Total Hardness as CaCO ₃	mg/L	200	600	948	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	190	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	115	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	416	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.10	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.17	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

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NAME OF THE LOCATION :	Borewell water sample collected Channareddy s/o Chinnaswamy Reddy, Yallamma nagar, (Chandapura lake-distance 500mtrs), Anekal Tq, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2832
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2832

16	Copper as Cu	mg/L	0.05	1.5	0.004	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5.0	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	0.003	
20	Iron as Fe	mg/L	1.0	1.0	0.231	
21	Manganese as Mn	mg/L	0.1	0.3	0.026	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium as Cr	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
24	Cyanide as CN	mg/L	0.05	0.05	BDL	
25	E.coli	CFU/ 100 ml	Shall not be detectable in any 100 mL sample		Present (22)	IS 15185:2016

INFERENCE	<p>Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride, Calcium as Ca, Total Alkalinity as CaCO₃, of IS 10500:2012 (Reaffirmed 2018).</p> <p>Non Conforms to AL & PL with respect to Total Hardness as CaCO₃, Magnesium as Mg, E.coli of IS 10500:2012 (Reaffirmed 2018).</p>
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Note: 1. The above results pertain only to the sample tested.

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source).

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

4. Samples will be stored for a period of 10 days from the date of dispatch of report .

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

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S:0.05; Boron as B; 0.1; Cyanide as CN:0.03; Cadmium as Cd:0.003; Lead as Pb:0.006; Zinc as Zn:0.003; Total Chromium as Cr:0.004.

Radha M.N

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

Farhath Jabeen

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



TC-5487



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-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

Annexure-III A

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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 15-12-2023

NAME OF THE LOCATION :	Borewell water sample collected Ward No.7, Sandeep Kumar s/o Munireddy, Nelagiri Thopu, Yallamma nagar, (Chandapura lake-distance 100mtrs), Anekal Tq, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2831
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2831

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.9	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.3	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1614	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	45	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	604	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate Nitrogen as NO ₃	mg/L	45	45	43	IS 3025 (Part 34): 2019
8	Total Hardness as CaCO ₃	mg/L	200	600	904	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	182	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	109	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	380	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.10	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.18	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Borewell water sample collected Ward No.7, Sandeep Kumar s/o Munireddy, Nelagiri Thopu, Yallamma nagar, (Chandapura lake-distance 100mtrs), Anekal Tq, Bengaluru Urban District.		Page 2 of 2
SAMPLE COLLECTED BY :	Smt.Padmavathi.R, AEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :22-11-2023	
DATE OF COLLECTION :	22-11-2023	DATE OF COMPLETION OF TEST : 04-12-2023	
DATE OF RECEIPT :	22-11-2023	SAMPLE REPORT NO. : W-2831	
PARTICULARS :	Borewell water sample	SAMPLE NO. : W-2831	

16	Copper as Cu	mg/L	0.05	1.5	0.005	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5.0	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	0.004	
20	Iron as Fe	mg/L	1.0	1.0	0.278	
21	Manganese as Mn	mg/L	0.1	0.3	0.283	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium as Cr	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	CFU/ 100 ml	Shall not be detectable in any 100 mL sample		Present (35)	IS 15185:2016

INFERENCE

Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride, Calcium as Ca, Total Alkalinity as CaCO₃, of IS 10500:2012 (Reaffirmed 2018).

Non Conforms to AL & PL with respect to Total Hardness as CaCO₃, Magnesium as Mg, E.coli of IS 10500:2012 (Reaffirmed 2018).

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source).

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

4. Samples will be stored for a period of 10 days from the date of dispatch of report .

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

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S:0.05; Boron as B; 0.1; Cyanide as CN:0.03; Cadmium as Cd:0.003; Lead as Pb:0.006; Zinc as Zn:0.003; Total Chromium as Cr:0.004.

Radha M.N

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

Farhath Jabeen

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



TC-5487



**KARNATAKA STATE POLLUTION CONTROLBOARD
CENTRAL ENVIRONMENTAL LABORATORY**

MoEF RECOGNISED ENVIRONMENTAL LABORATORY
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K.S.P.C.B., "NisargaBhavan",
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Shivanagar, Bangalore-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 13.10.2023

NAME OF THE LOCATION:	M/s. Techno Pack, No 588, 590, Site No 68, KIADB Indl Area, Bengaluru Urban District	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Vani A., DEO RO: Anekal	DATE OF COMMENCEMENT OF TEST : 22.08.2023
DATE OF COLLECTION:	21.08.2023	DATE OF COMPLETION OF TEST: 04.09.2023
DATE OF RECEIPT :	22.08.2023	SAMPLE REPORT NO: W-1196
DETAILS OF PARTICULARS :	Borewell Water Sample	SAMPLE NO: W-1196

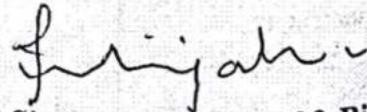
Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
		AL	PL		
pH @ 25° C	-	6.5 to 8.5	6.5 to 8.5	7.2	IS 3025 (Part 11):2022
Turbidity	NTU	1	5	0.2	IS 3025 (Part 10):2012
Total Dissolved Solids	mg/L	500	2000	1016	IS 3025 (Part 16):2017
Sulphate as SO ₄	mg/L	200	400	21.34	IS 3025 (Part 24):2022
Chloride as Cl	mg/L	250	1000	178	IS 3025 (Part 32):2019
Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43):2022
Nitrate as NO ₃	mg/L	45	45	30.95	APHA 23 rd Edition (4500 NO3-D):2017
Total Hardness as CaCO ₃	mg/L	200	600	388	IS 3025 (Part 21):2019
Calcium as Ca	mg/L	75	200	95.8	IS 3025 (Part-40):2019
Magnesium as Mg	mg/L	30	100	33	IS 3025 (Part 46):2019
Total Alkalinity as CaCO ₃	mg/L	200	600	340	IS 3025 (Part 23):2019
Fluoride as F	mg/L	1	1.5	0.26	IS 3025 (Part 60):2019
Ammonia (as Total Ammonia- N)	mg/L	0.5	0.5	0.0295	IS 3025 (Part 34):2019
Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23 rd Edition (4500 S2-F):2017

NAME OF THE LOCATION:	M/s. Techno Pack, No 588, 590, Site No 68, KIADB Indl Area, Bengaluru Urban District		Page 2 of 2
SAMPLE COLLECTED BY :	Smt. Vani A., DEO RO: Anekal	DATE OF COMMENCEMENT TEST :22.08.2023	
DATE OF COLLECTION:	21.08.2023	DATE OF COMPLETION OF TEST: 04.09.2023	
DATE OF RECEIPT :	22.08.2023	SAMPLE REPORT NO:W-11	
PARTICULARS :	Borewell Water Sample	SAMPLE NO:W-1196	

Sl No	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23 rd Edition (3125B): 2017
17	Lead as Pb	mg/L	5.0	15	BDL	
18	Zinc as Zn	mg/L	0.02	0.02	BDL	
19	Nickel as Ni	mg/L	0.1	0.3	0.0018	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.003	0.003	0.214	
22	Cadmium as Cd	mg/L	0.01	0.01	BDL	
23	Total Chromium as	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025 (Part-27)
25	E.coli	MPN/100ml	Shall not be detectable in any 100 ml sample		Absent	APHA 23 rd Edition (9221G): 2017
INFERENCE		Non Confirms to AL standard with respect to Total Dissolved Solids Total Alkalinity as CaCO ₃ , Manganese as Mg as of IS 10500:2012(Reaffirmed 2018)				

- Note:** 1. The above results pertaining only to the sample tested.
 2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)
 3. The report shall not be reproduced without the written approval of the laboratory.
 4. Samples will be stored for a period of 10 days from the date of issue of report.
 5. BDL: Below Detection Level in mg/L

Phenolic Compound as C₆H₅OH:0.1; Sulphide as H₂S: 0.05; Boron as B: 01
 Copper as Cu: 0.003; Lead as Pb:0.006; Zinc as Zn:0.003; Iron as Fe:0.017; Cadmium as
 Cd:0.003 Total Chromium :0.004; Cyanide as CN : 0.03.


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



TC-5487



**KARNATAKA STATE POLLUTION CONTROLBOARD
CENTRAL ENVIRONMENTAL LABORATORY**

MoEF RECOGNISED ENVIRONMENTAL LABORATORY
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ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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Website:

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ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ.ನಿರ್ವಹಣಾಧಿಕಾರಿ,

7ನೇ 'ಡಿ' ಮುಖ್ಯರಸ್ತೆ, ಶಿವನಗರ, ಬೆಂಗಳೂರು-560079

K.S.P.C.B., " NisargaBhavan",

7th D Cross, Thimmalah Road

Shivanagar, Bangalore-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:13.10.2023

NAME OF THE LOCATION:	M/s. Apotex Research Private Limited, Site No. 2, Sy No. 347 & 348, 4th Phase, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Vani A., DEO RO: Anekal	DATE OF COMMENCEMENT OF TEST :22.08.2023
DATE OF COLLECTION:	21.08.2023	DATE OF COMPLETION OF TEST: 04.09.2023
DATE OF RECIEPT :	22.08.2023	SAMPLE REPORT NO:W-1198
CHARACTERISTICS :	Borewell Water Sample	SAMPLE NO:W-1198

Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
		AL	PL		
pH @ 25° C	-	6.5 to 8.5	6.5 to 8.5	7.1	IS 3025 (Part 11):2022
Turbidity	NTU	1	5	0.4	IS 3025 (Part 10):2012
Total Dissolved Solids	mg/L	500	2000	1708	IS 3025 (Part 16):2017
Sulfate as SO ₄	mg/L	200	400	16.89	IS 3025 (Part 24):2022
Chloride as Cl	mg/L	250	1000	318	IS 3025 (Part 32):2019
Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43):2022
Nitrate as NO ₃	mg/L	45	45	20	APHA 23 rd Edition (4500 NO3-D):2017
Total Hardness as CaCO ₃	mg/L	200	600	408	IS 3025 (Part 21):2019
Calcium as Ca	mg/L	75	200	86.4	IS 3025 (Part-40):2019
Magnesium as Mg	mg/L	30	100	46.6	IS 3025 (Part 46):2019
Total Alkanity as CaCO ₃	mg/L	200	600	356	IS 3025 (Part 23):2019
Fluoride as F	mg/L	1	1.5	0.2	IS 3025 (Part 60):2019
Ammonia (as Total Ammonia- N)	mg/L	0.5	0.5	0.0461	IS 3025 (Part 34):2019
Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23 rd Edition (4500 S2-F):2017

NAME OF THE LOCATION:	M/s. Apotex Research Private Limited, Site No. 2, Sy No. 347 & 348, 4th Phase, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District	Page of 2
SAMPLE COLLECTED BY :	Smt.Vani A., DEO RO: Anekal	DATE OF COMMENCEMENT TEST :22.08.2023
DATE OF COLLECTION:	21.08.2023	DATE OF COMPLETION OF TEST: 04.09.2023
DATE OF RECEIPT :	22.08.2023	SAMPLE REPORT NO:W-119
PARTICULARS :	Borewell Water Sample	SAMPLE NO:W-1198

SI No	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method	
			AL	PL			
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23 rd Edition (3125B): 2017	
17	Lead as Pb	mg/L	5.0	15	BDL		
18	Zinc as Zn	mg/L	0.02	0.02	BDL		
19	Nickel as Ni	mg/L	0.1	0.3	BDL		
20	Iron as Fe	mg/L	1.0	1.0	BDL		
21	Manganese as Mn	mg/L	0.003	0.003	0.56		
22	Cadmium as Cd	mg/L	0.01	0.01	BDL		
23	Total Chromium as	mg/L	0.05	0.05	BDL		
24	Cyanide as CN	mg/L	0.05	0.05	BDL		IS 3025 (Part-27)
25	E.coli	MPN/100ml	Shall not be detectable in any 100 ml sample		Absent		APHA 23 rd Edition (9221G): 2017
INFERENCE		Non Confirms to AL standard with respect to Total Dissolved Solids, Total Hardness, Manganese 10500:2012(Reaffirmed 2018)					

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)

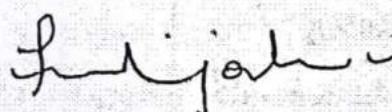
3. The report shall not be reproduced without the written approval of the laboratory.

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

5. BDL: Below Detection Level in mg/L

Phenolic Compound as C₆H₅OH:0.1; Sulphide as H₂S: 0.05; Boron as B: 01

Copper as Cu: 0.003; Lead as Pb:0.006; Zinc as Zn:0.003; Iron as Fe:0.017;Cadmium as Cd:0.003 Total Chromium :0.004; Cyanide as CN : 0.03.


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



TC-5487



**KARNATAKA STATE POLLUTION CONTROLBOARD
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

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ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ.ನಿರ್ದೇಶನವು
7ನೇ 'ಡಿ' ಮುಖ್ಯರಸ್ತೆ, ಕಿಮ್ಮಯ್ಯರಸ್ತೆ,
ಶಿವನಗರ ಬೆಂಗಳೂರು-560079

K.S.P.C.B., " NisargaBhavan",
7th D Cross, Thirumalah Road
Shivanagar, Bangalore-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:13.10.2023

NAME OF THE LOCATION:	M/s. Richa Global Exports Private Limited, Plot Nos. 309 to 317 (P), Bommasandra - Jigani Link Road Industrial Area, 4th Phase, Anekal Taluk, Bangalore Urban District	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Vani A., DEO RO: Anekal	DATE OF COMMENCEMENT OF TEST :22.08.2023
DATE OF COLLECTION:	21.08.2023	DATE OF COMPLETION OF TEST: 04.09.2023
DATE OF RECEIPT :	22.08.2023	SAMPLE REPORT NO:W-1197
CHARACTERISTICS :	Borewell Water Sample	SAMPLE NO:W-1197

Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
		AL	PL		
pH @ 25° C	-	6.5 to 8.5	6.5 to 8.5	7.1	IS 3025 (Part 11):2022
Turbidity	NTU	1	5	0.1	IS 3025 (Part 10):2012
Total Dissolved Solids	mg/L	500	2000	788	IS 3025 (Part 16):2017
Sulfate as SO ₄	mg/L	200	400	31.24	IS 3025 (Part 24):2022
Chloride as Cl	mg/L	250	1000	190	IS 3025 (Part 32):2019
Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43):2022
Nitrate as NO ₃	mg/L	45	45	8.76	APHA 23 rd Edition (4500 NO3-D):2017
Total Hardness as CaCO ₃	mg/L	200	600	320	IS 3025 (Part 21):2019
Calcium as Ca	mg/L	75	200	67.2	IS 3025 (Part-40):2019
Magnesium as Mg	mg/L	30	100	36.8	IS 3025 (Part 46):2019
Total Alkalinity as CaCO ₃	mg/L	200	600	460	IS 3025 (Part 23):2019
Fluoride as F	mg/L	1	1.5	0.43	IS 3025 (Part 60):2019
Ammonia (as Total Ammonia- N)	mg/L	0.5	0.5	0.0185	IS 3025 (Part 34):2019
Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23 rd Edition (4500 S2-F):2017

NAME OF THE LOCATION:	M/s. Richa Global Exports Private Limited, Plot Nos. 309 to 317 (P), Bommasandra - Jigani Link Road Industrial Area, 4th Phase, Anekal Taluk, Bangalore Urban District	
SAMPLE COLLECTED BY :	Smt.Vani A., DEO RO: Anekal	DATE OF COMMENCEMENT TEST :22.08.2023
DATE OF COLLECTION:	21.08.2023	DATE OF COMPLETION OF TEST: 04.09.2023
DATE OF RECEIPT :	22.08.2023	SAMPLE REPORT NO:W-11
PARTICULARS :	Borewell Water Sample	SAMPLE NO:W-1197

SI No	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23 rd Edition (3125B): 2017
17	Lead as Pb	mg/L	5.0	15	BDL	
18	Zinc as Zn	mg/L	0.02	0.02	0.12	
19	Nickel as Ni	mg/L	0.1	0.3	BDL	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.003	0.003	BDL	
22	Cadmium as Cd	mg/L	0.01	0.01	BDL	
23	Total Chromium as	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025 (Part-27)
25	E.coli	MPN/100ml	Shall not be detectable in any 100 ml sample		Absent	APHA 23 rd Edition (9221G): 2017
INFERENCE			Non Confirms to AL standard with respect to Total Dissolved Solids IS 10500:2012(Reaffirmed 2018)			

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)

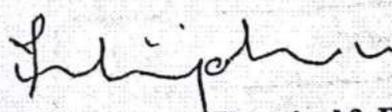
3. The report shall not be reproduced without the written approval of the laboratory.

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

5. BDL: Below Detection Level in mg/L

Phenolic Compound as C₆H₅OH:0.1; Sulphide as H₂S: 0.05; Boron as B: 01

Copper as Cu: 0.003; Lead as Pb:0.006; Zinc as Zn:0.003; Iron as Fe:0.017; Cadmium as Cd:0.003 Total Chromium :0.004; Cyanide as CN : 0.03.


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



TC-5487

**KARNATAKA STATE POLLUTION CONTROLBOARD
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

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ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ.ನಿರ್ವಹಣಾಧಿಕಾರಿ,
7ನೇ 'ಡಿ' ಮುಖ್ಯರಸ್ತೆ, ಶಿವನಗರ,
ಶಿವನಗರ ಬೆಂಗಳೂರು-560079

K.S.P.C.B., "NisargaBhavan",
7th D Cross, Thimmalah Road
Shivanagar, Bangalore-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date:13.10.2023

NAME OF THE LOCATION:	M/s.Otis Elevator Co.(I) Ltd., No 92, KIADB Indl Area, Anekal Taluk, Bengalur - 06 (Instead of M/s.KTTM)	Page 1 of 2
SAMPLE COLLECTED BY :	Smt.Vani A., DEO RO: Anekal	DATE OF COMMENCEMENT OF TEST :22.08.2023
DATE OF COLLECTION:	21.08.2023	DATE OF COMPLETION OF TEST: 04.09.2023
DATE OF RECIEPT :	22.08.2023	SAMPLE REPORT NO:W-1195
PARTICULARS :	Borewell Water Sample	SAMPLE NO:W-1195

Sl No	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1.	pH @ 25° C	-	6.5 to 8.5	6.5 to 8.5	7.1	IS 3025 (Part 11):2022
2.	Turbidity	NTU	1	5	0.2	IS 3025 (Part 10):2012
3.	Total Dissolved Solids	mg/L	500	2000	1192	IS 3025 (Part 16):2017
4.	Sulphate as SO ₄	mg/L	200	400	24.37	IS 3025 (Part 24):2022
5.	Chloride as Cl	mg/L	250	1000	194	IS 3025 (Part 32):2019
6.	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43):2022
7.	Nitrate as NO ₃	mg/L	45	45	28.1	APHA 23 rd Edition (4500 NO3-D):2017
8.	Total Hardness as CaCO ₃	mg/L	200	600	324	IS 3025 (Part 21):2019
9.	Calcium as Ca	mg/L	75	200	128	IS 3025 (Part-40):2019
10.	Magnesium as Mg	mg/L	30	100	36.9	IS 3025 (Part 46):2019
11.	Total Alkanity as CaCO ₃	mg/L	200	600	440	IS 3025 (Part 23):2019
12.	Fluoride as F	mg/L	1	1.5	0.39	IS 3025 (Part 60):2019
	Ammonia (as Total Ammonia- N)	mg/L	0.5	0.5	0.0186	IS 3025 (Part 34):2019
	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23 rd Edition (4500 S2-F):2017
	Iron as Fe	mg/L	0.5	2.4	BDL	APHA 23 rd Edition

NAME OF THE LOCATION:	M/s.Otis Elevator Co.(I) Ltd., No 92, KIADB Indl Area, Anekal Taluk, Bengalur - 06 (Instead of M/s.KTTM)	Page 2 of 2
SAMPLE COLLECTED BY :	Smt.Vani A., DEO RO: Anekal	DATE OF COMMENCEMENT OF TEST :22.08.2023
DATE OF COLLECTION:	21.08.2023	DATE OF COMPLETION OF TEST: 04.09.2023
DATE OF RECIPT :	22.08.2023	SAMPLE REPORT NO:W-1195
PARTICULARS :	Borewell Water Sample	SAMPLE NO:W-1195

Sl No	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Meth
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23 rd Edition (3125B): 2017
17	Lead as Pb	mg/L	5.0	15	BDL	
18	Zinc as Zn	mg/L	0.02	0.02	BDL	
19	Nickel as Ni	mg/L	0.1	0.3	0.012	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.003	0.003	BDL	
22	Cadmium as Cd	mg/L	0.01	0.01	BDL	
23	Total Chromium as	mg/L	0.05	0.05	BDL	IS 3025 (Part-27):202
24	Cyanide as CN	mg/L	0.05	0.05	BDL	
25	E.coli	MPN/1 00ml	Shall not be detectable in any 100 ml sample		Absent	APHA 23 rd Edit (9221G): 2017
INFERENCE		Non Confirms to AL standard with respect to Total Dissolved Solid Total Alkanity as CaCO ₃ , Manganese as Mg as of IS 10500:2012(Reaffirmed 2018)				

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)

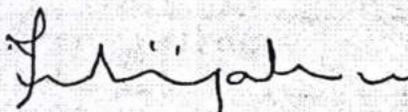
3. The report shall not be reproduced without the written approval of the laboratory.

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

5. BDL: Below Detection Level in mg/L

Phenolic Compound as C₆H₅OH:0.1; Sulphide as H₂S: 0.05; Boron as B: 01

Copper as Cu: 0.003; Lead as Pb:0.006; Zinc as Zn:0.003; Iron as Fe:0.017;Cadmium as
Cd:0.003 Total Chromium :0.004; Cyanide as CN : 0.03.


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



TC-5487



**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-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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Website: kspcb.kar.nataka.gov
K.S.P.C.B., "Nisarga Bhawan"
7th D Cross, Thimmatah Road,
Shivanagar, Bengaluru - 560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 17.11.2023

NAME OF THE LOCATION :	Festo Controls Private Limited, Plot No. 225 & 226 227, IIIrd Phase, Bommasandra Industrial Area, Hosur Road, Anekal Taluk, Bengaluru Urban Dist-560099	Page 1 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 03.11.2023
DATE OF COLLECTION :	03.11.2023	DATE OF COMPLETION OF TEST: 08.11.2023
DATE OF RECEIPT :	03.11.2023	SAMPLE REPORT NO: W- 2605
PARTICULARS	Borewell sample	SAMPLE NO: W- 2605

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.5	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.8	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1354	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	49	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	460	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	32.75	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	552	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	112	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	66	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	224	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.12	IS 3025 (Part 60) : 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.14	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Festo Controls Private Limited, Plot No. 225 & 226 227, IIIrd Phase, Bommasandra Industrial Area, Hosur Road, Anekal Taluk, Bengaluru Urban Dist-560099	Page 2 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 03.11.2023
DATE OF COLLECTION :	03.11.2023	DATE OF COMPLETION OF TEST: 08.11.2023
DATE OF RECEIPT :	03.11.2023	SAMPLE REPORT NO: W- 2605
PARTICULARS	Borewell sample	SAMPLE NO: W- 2605

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	BDL	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.1	0.3	0.332	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	MPN/ 100 ml	Shall not be detectable in any 100 mL sample		Absent	IS 15185: 2016
INFERENCE		Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Calcium as Ca, Magnesium as Mg, Total Hardness as CaCO ₃ , Total Alkalinity as CaCO ₃ , Manganese as Mn, of IS 10500:2012 (Reaffirmed 2018) Conforms to PL standard with respect to of IS 10500:2012 (Reaffirmed 2018)				

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)

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

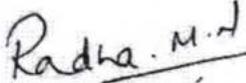
4. Samples will be stored for a period of 10 days from the date of dispatch of report

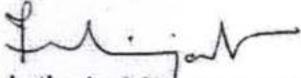
5. BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Copper as Cu: 0.003; Lead as Pb: 0.006; Zinc as Zn: 0.003; Nickel as Ni: 0.002;

Iron as Fe: 0.017; Cadmium as Cd : 0.003; Total Chromium: 0.004; Cyanide as CN: 0.03


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


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

---End of Report---



**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:5487
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Website: kspcb.karnataka.gov.in
K.S.P.C.B. "Nisarga Bhavana"
7th D Cross, Thammiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 17.11.2023

NAME OF THE LOCATION :	MTR Foods Limited, Plot No. 83, Sy. No. 270, 1st Phase Bommasandra Industrial Area, Anekal Taluk, Bengaluru Urban Dist-560099	Page 1 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 03.11.2023
DATE OF COLLECTION :	03.11.2023	DATE OF COMPLETION OF TEST: 08.11.2023
DATE OF RECEIPT :	03.11.2023	SAMPLE REPORT NO: W- 2604
PARTICULARS	Borewell sample	SAMPLE NO: W- 2604

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.6	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.4	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1396	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	118	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	332	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	33.6	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	828	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	166	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	100	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	420	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.10	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.13	IS 3025 (Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	MTR Foods Limited, Plot No. 83, Sy. No. 270, 1st Phase Bommasandra Industrial Area, Anekal Taluk, Bengaluru Urban Dist-560099	Page 2 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 03.11.2023
DATE OF COLLECTION :	03.11.2023	DATE OF COMPLETION OF TEST: 08.11.2023
DATE OF RECEIPT :	03.11.2023	SAMPLE REPORT NO: W- 2604
PARTICULARS	Borewell sample	SAMPLE NO: W- 2604

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	BDL	
19	Nickel as Ni	mg/L	0.02	0.02	BDL	
20	Iron as Fe	mg/L	1.0	1.0	BDL	
21	Manganese as Mn	mg/L	0.1	0.3	0.005	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	IS 3025(Part 27): 2021
25	E.coli	MPN/100 ml	Shall not be detectable in any 100 mL sample		Absent	IS 15185: 2016
INFERENCE		<p>Non Conforms to AL standard with respect to Total Dissolved Solids, Chloride as Cl, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO₃ of IS 10500:2012 (Reaffirmed 2018)</p> <p>Non Conforms to AL & PL standard with respect to Total Hardness as CaCO₃ of IS 10500:2012 (Reaffirmed 2018)</p>				

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

- AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)
- 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 dispatch of report
- BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Copper as Cu: 0.003; Lead as Pb: 0.006; Zinc as Zn: 0.003; Nickel as Ni: 0.002;

Iron as Fe: 0.017; Cadmium as Cd : 0.003; Total Chromium: 0.004; Cyanide as CN: 0.03

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 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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K.S.P.C.B., Nisarga Bhavan
7th D Cross, Thammah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 17.11.2023

NAME OF THE LOCATION :	Essae Digitronics Private Limited, Plot No. 34 & 35, Bommasandra Industrial Area, Anekal Taluk, Bengaluru Urban District	Page 1 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 04.11.2023
DATE OF COLLECTION :	03.11.2023	DATE OF COMPLETION OF TEST: 08.11.2023
DATE OF RECEIPT :	03.11.2023	SAMPLE REPORT NO: W- 2608
PARTICULARS	Borewell sample	SAMPLE NO: W- 2608

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
1	pH	-	6.5 to 8.5	6.5 to 8.5	6.7	IS 3025 (Part 11): 2022
2	Turbidity	NTU	1	5	0.3	IS 3025 (Part 10): 2012
3	Total Dissolved Solids	mg/L	500	2000	1070	IS 3025 (Part 16): 2017
4	Sulphate as SO ₄	mg/L	200	400	48	IS 3025 (Part 24): 2022
5	Chloride as Cl	mg/L	250	1000	224	IS 3025 (Part 32): 2019
6	Phenolic Compound as C ₆ H ₅ OH	mg/L	0.001	0.002	BDL	IS 3025 (Part 43): 2022
7	Nitrate as NO ₃	mg/L	45	45	27	APHA 23rd Edition (4500 NO3-D): 2017
8	Total Hardness as CaCO ₃	mg/L	200	600	496	IS 3025 (Part 21): 2019
9	Calcium as Ca	mg/L	75	200	101	IS 3025 (Part-40): 2019
10	Magnesium as Mg	mg/L	30	100	59	IS 3025 (Part 46): 2019
11	Total Alkalinity as CaCO ₃	mg/L	200	600	340	IS 3025 (Part 23): 2019
12	Fluoride as F	mg/L	1	1.5	0.16	IS 3025 (Part 60): 2019
13	Ammonia (as Total Ammonia-N)	mg/L	0.5	0.5	0.26	IS 3025(Part 34): 2019
14	Sulphide as H ₂ S	mg/L	0.05	0.05	BDL	APHA 23rd edition (4500 S2- F): 2017
15	Boron as B	mg/L	0.5	2.4	BDL	APHA 23rd edition (4500-B B): 2017

P.T.O

NAME OF THE LOCATION :	Essae Digitronics Private Limited, Plot No. 34 & 35, Bommasandra Industrial Area, Anekal Taluk, Bengaluru Urban District	Page 2 of 2
SAMPLE COLLECTED BY :	Sri. Dr. H.R. Puttaraju EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST: 04.11.2023
DATE OF COLLECTION :	03.11.2023	DATE OF COMPLETION OF TEST: 08.11.2023
DATE OF RECEIPT :	03.11.2023	SAMPLE REPORT NO: W- 2608
PARTICULARS	Borewell sample	SAMPLE NO: W- 2608

Sl. No.	Parameters	Unit	Standard IS 10500:2012 (Reaffirmed 2018)		Result	Test Method
			AL	PL		
16	Copper as Cu	mg/L	0.05	1.5	BDL	APHA 23rd edition (3125B): 2017
17	Lead as Pb	mg/L	0.01	0.01	BDL	
18	Zinc as Zn	mg/L	5	15	0.033	
19	Nickel as Ni	mg/L	0.02	0.02	0.003	
20	Iron as Fe	mg/L	1.0	1.0	0.036	
21	Manganese as Mn	mg/L	0.1	0.3	0.136	
22	Cadmium as Cd	mg/L	0.003	0.003	BDL	
23	Total Chromium	mg/L	0.05	0.05	BDL	
24	Cyanide as CN	mg/L	0.05	0.05	BDL	
25	E.coli	MPN/ 100 ml	Shall not be detectable in any 100 mL sample		Present (75)	IS 15185: 2016
INFERENCE		<p>Non Conforms to AL standard with respect to Total Dissolved Solids, Total Hardness as CaCO₃, Calcium as Ca, Magnesium as Mg, Total Alkalinity as CaCO₃, of IS 10500:2012 (Reaffirmed 2018)</p> <p>Non Conforms to AL & PL standard with respect to E.coli of IS 10500:2012 (Reaffirmed 2018)</p>				

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

2. AL: Acceptable Limits, PL: Permissible Limits (in the absence of alternate source)
3. The report shall not be reproduced without the written approval of the laboratory.
4. Samples will be stored for a period of 10 days from the date of dispatch of report
5. BDL: Below Detection Level in mg/L.

Phenolic Compound as C₆H₅OH: 0.1; Sulphide as H₂S: 0.05; Boron as B :0.1

Copper as Cu: 0.003; Lead as Pb: 0.006; Cadmium as Cd: 0.003; Total Chromium: 0.004;

Cyanide as CN: 0.03

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---

Well sample results in CEPI Area - Bommasandra Industrial Area, RO-Sarjapu

Parameters	Units	03-11-2023		
		MTR Foods Ltd, BIA	M/s Festo Controls Pvt Ltd, III Phase, BIA	M/s Essae Digitronics Pvt Ltd, II Phase, BIA
pH@25C		6.6	6.5	6.7
Turbidity	NTU	0.4	0.8	0.3
Total Dissolved Solids	mg/L	1396	1354	1070
Sulphate	mg/L	118	49	48
Chloride	mg/L	332	460	224
Phenolic Compound	mg/L	BDL	BDL	BDL
Nitrate	mg/L	33.6	32.75	27
Total Hardness	mg/L	828	552	496
Calcium	mg/L	166	112	101
Magnesium	mg/L	100	66	59
Total Alkalinity	mg/L	420	224	340
Fluoride	mg/L	0.1	0.12	0.16
Ammonia	mg/L	0.13	0.14	0.26
Sulphide	mg/L	BDL	BDL	BDL

Boron as B	mg/L	BDL	BDL	BDL
Copper	mg/L	BDL	BDL	BDL
Zinc	mg/L	BDL	BDL	0.033
Nickel	mg/L	0.006	0.332	0.003
Manganese	mg/L	0.005	0.092	0.136
Iron	mg/L	BDL	BDL	0.036
Cadmium	mg/L	BDL	BDL	BDL
Lead	mg/L	BDL	BDL	BDL
Total Chromium	mg/L	BDL	BDL	BDL
Cyanide	mg/L	BDL	BDL	BDL
E-Coli	MPN/100 ml	Absent	Absent	Present

ANNEXURE - R4
CHANDAPURA LAKE WATER ANALYSIS REPORT

Parameters	Units								Outlet	Inlet			Tank-1	Tank - 2	Outlet	Inlet
		10.10.2022	09.11.2022	13.12.2022	20.01.2023	28-06-2023	19.07.2023	01-08-2023	15.09.2023	09-10-2023	16-11-2023					
Temperature	C	25	25	25	25	20	20									
pH@25C		7.6	7.7	7	7	7.4	7	7.3	7	6.8	7.4	7.5	7.2	7.1		
Conductivity @25°C	us/cm	1585	1500	1164	1331	2620	2390	2430	2530	1813	1917	1909	1992	1926		
Dissolved oxygen	mg/L	4.4	1.4	3.1	1.2	BDL	BDL	BDL	BDL	1.9	1.4	1.8	2.3	0.9		
BOD	mg/L	8	12	11	13	58	313	81	84	29	39	51	35	87		
COD	mg/L	92	118	198	129	204	313	288	292	196	200	240	232	374		
Nitrates as N	mg/L	BDL	5	3.8	21	14	7.3	8	8	5	8	8	7	7		
Ammonicals Nitrogen NH4-N	mg/L	4.41	30.8	24	2.2		4.6	16.2	18	4	5.2	6.2	---	---		
Ammonia	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---		
Turbidity	mg/L	2.8	6.8	20.3	20.6	27.6	8.2	36.5	33.3	20.3	10.6	11.3	16.8	22.3		
Total Hardness as CaCO3	mg/L	484	408	316	300	770	648	560	604	448	340	328	13.6	25.7		
Calcium as CaCO3	mg/L	252	212	164	156	510	328	288	308	228	176	168	320	340		
Magnesium as CaCO3	mg/L	232	196	152	144	360	320	272	296	220	164	160	168	180		
Chloride as Cl	mg/L	252	232	180	144	390	408	452	444	332	364	352	152	160		
Sodium as Na	mg/L	170	145	114	141	232	199	235	184	183	134	113	396	392		
Potassium as K	mg/L	16	19	15	32	30	21	33	36	17	28	28	153	158		
Sulphate as SO4	mg/L	62	23	18	35	22	30	23	35	38	40	45	31	32		
P-Alkalinity as CaCO3	mg/L	NIL	NIL	NIL	NIL	NIL	BDL	NIL	NIL	BDL	BDL	BDL	38	48		
T-Alkalinity as CaCO3	mg/L	328	424	328	116	760	620	528	512	400	432		BDL	BDL		
TDS	mg/L	1080	1024	794	960	1752	1630	1630	1698	400	1332	1298	444	396		
Total Phosphate as P	mg/L	2.59	0.6	0.48	BDL	3	1.24	1	1	0.2	0.9	1.13	1338	1296		
Fluoride as F	mg/L	0.51	0.42	0.41	0.32	0.75	0.884	0.91	0.6	0.49	0.42	0.42	2	2		
Boron as B	mg/L	BDL	BDL	0.37	0.4											
Bicarbonate(HCO3)	mg/L	328	424	328	116	760	620	528	512	400	432	416	BDL	BDL		
Carbonate(CO3)	mg/L	NIL	NIL	NIL	NIL	NIL	BDL	NIL	NIL	BDL	BDL	BDL	444	396		
Sodium Absorption Ratio	mg/L	---	---	---	---	---	---	---	---	---	---	---	444	396		
Free Ammonia	mg/L	---	---	---	---	---	---	---	---	---	---	---	444	396		
Total Suspended Solids	mg/L	---	---	---	---	---	---	---	---	---	---	---	BDL	BDL		
Total Phosphate	mg/L	---	---	---	---	---	---	---	---	---	---	---	20	32		
Total Kjeldahl Nitrogen	mg/L	---	---	---	---	---	---	---	---	---	---	---	6	5.2		
Total Coliform	MPN/100ml	24000	2400000	92000	160000	---	2400000	2400000	4E+07	35000	160000	54000	54000	160000		
Total Coliform	MPN/100ml	2700	270000	43000	3300	---	220000	3400000	5E+06	3100	4800	4900	4100	7900		

Cadmium	mg/L	BDL													
Copper	mg/L	0.041													
Lead	mg/L	BDL													
Total Chromium	mg/L	BDL													
Nickel	mg/L	0.059													
Zinc	mg/L	0.064													
Iron	mg/L	1.141													
Manganese	mg/L	0.381													
Fecal Streptococi	mg/L														
INFERENCE		Class "D"	Class "E"												

CLASS "A" Drinking Water source without conventional treatment but after disinfection
 CLASS "B" Outdoor bathing (Organized)
 CLASS "C" Drinking Water source without conventional treatment and disinfection
 CLASS "D" Propogation of wild life, fishries
 CLASS "E" Irrigation, Industrial cooling, controlled waste disposal



**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

ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ನಗರೀಕರಣ
ಒ ನೆ 'ಅ' ಮಹಲ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಿಾಹ ರೋಡ್,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-560079
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore - 560079

ANALYSIS REPORT

Date : 27-10-2022

1	Station code	4532				Page 1 of 2	
2	Date & time of Sample taken	Date	10-10-2022	Time	04.05 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Chandapura Lake				SAMPLE COLLECTED BY :Sri.C R Manjunath, EO RO: Sarjapura	
4	Visible Effluent Discharge in Proximity	None	Moderate ✓	High	Other	Completed by	Assistant Scientific Officer
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 ✓	Date of commencement of test	11-10-2022
8	Colour	Clear ✓	Turbid	Brown	Clear	Date of completion of test	18-10-2022
9	Odour	None	Fishy	H ₂ S	Other ✓	Sample Report No.	W-2274
10	Particulars of sample collected	Lake Water Sample				Sample No.	W-2274

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	7.6	IS 3025 (Part 11)
3	Conductivity@25° C	µs/cm	-	-	-	-	2250	1585	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	24000	APHA 23 rd edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	2700	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	4.4	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 °C)	mg/L	2	3	3	-	-	8.0	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	92	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	4.41	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.28	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	2.8	IS 3025 (Part 10)
13	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	484	IS 3025 (Part 21)
14	Calcium as CaCO ₃	mg/L	-	-	-	-	-	252	IS 3025 (Part 40)

1	Station code	4532			Page 2 of 2	
2	Date & time of Sample taken	Date	10-10-2022	Time	04.05 PM	Type of Water Body Lake
3	Name of Monitoring Station	Chandapura Lake			SAMPLE COLLECTED BY :Sri.C R Manjunath, EO RO: Sarjapura	
4	Date of commencement of test	11-10-2022			W-2274	
5	Date of completion of test	18-10-2022			W-2274	
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 ₃	mg/L	-	-	-	-	-	232	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	252	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	170	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	16	IS 3025 (Part 46)
19	Sulphate as SO ₄	mg/L	-	-	-	-	-	62	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	328	
22	Bicarbonate (HCO ₃)	mg/L	-	-	-	-	-	328	
23	Carbonate (CO ₃)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	1080	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	2.59	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.51	IS 3025 (Part 60)
27	Copper as Cu	mg/L	-	-	-	-	-	0.041	APHA 23rd edition - (3125B)
28	Zinc as Zn	mg/L	-	-	-	-	-	0.064	
29	Nickel as Ni	mg/L	-	-	-	-	-	0.059	
30	Manganese as Mn	mg/L	-	-	-	-	-	0.381	
31	Total Chromium as Cr	mg/L	-	-	-	-	-	BDL	
32	Iron as Fe	mg/L	-	-	-	-	-	1.141	
33	Cadmium as Cd	mg/L	-	-	-	-	-	BDL	
34	Lead as Pb	mg/L	-	-	-	-	-	BDL	
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; Total Chromium as Cr:0.001; Cadmium as Cd:0.001; Lead as Pb: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-5487

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

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 ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ನಿರೀಕ್ಷಾಭವನ,
 ೭ ನೇ 'ಡಿ' ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಿಾಹ ರೋಡ್,
 ಶಿವನಗರ, ಚನ್ನರಾಯಪಟ್ಟಣ-೫೬೦೦೭೯
 K.S.P.C.B., "Nisarga Bhavan"
 7th D Cross, Thimmaiah Road,
 Shivanagar, Bangalore - 560079
ANALYSIS REPORT

Date : 16-12-2022

1	Station code	4532				Page 1 of 2	
2	Date & time of Sample taken	Date	09-11-2022	Time	01.40 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Chandapura Lake				SAMPLE COLLECTED BY :Sri.C.R. Manjunatha, EO RO: Sarjapura	
4	Visible Effluent Discharge in Proximity	None	Moderate ✓	High	Other	Completed by	Scientific Assist
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 ✓	Date of commencement of test	09-11-2022
8	Colour	Clear ✓	Turbid	Green	Brown	Date of completion of test	21-11-2022
9	Odour	None	Fishy	H ₂ S	Other ✓	Sample Report No.	W-2699
10	Particulars of sample collected	Lake Water Sample				Sample No.	W-2699

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	7.7	IS 3025 (Part 11)
3	Conductivity@25° C	µs/cm	-	-	-	-	2250	1500	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	2400000	APHA 23 rd edition(9221 A, B, 9-68 to 9-75)
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	270000	APHA 23 rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	1.4	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	-	-	-	-	-	118	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23 rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	5.0	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	30.8	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	6.8	IS 3025 (Part 10)
13	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	408	IS 3025 (Part 21)
14	Calcium as CaCO ₃	mg/L	-	-	-	-	-	212	IS 3025 (Part 40)

1	Station code	4532				Page 2 of 2	
2	Date & time of Sample taken	Date	09-11-2022	Time	01.40 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Chandapura Lake				SAMPLE COLLECTED BY :Sri.C.R. Manjunatha, EO RO: Sarjapura	
4	Date of commencement of test	09-11-2022				W-2699	
5	Date of completion of test	21-11-2022				W-2699	
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 ₃	mg/L	-	-	-	-	-	196	IS 3025 (Part 32)
16	Chloride as Cl	mg/L	-	-	-	-	-	232	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	145	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	19	IS 3025 (Part 45)
19	Sulphate as SO ₄	mg/L	-	-	-	-	-	23	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	424	
22	Bicarbonate (HCO ₃)	mg/L	-	-	-	-	-	424	
23	Carbonate (CO ₃)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	1024	IS 3025 (Part 32)
25	Total Phosphate as P	mg/L	-	-	-	-	-	0.6	IS 3025 (Part 32)
26	Fluoride as F	mg/L	-	-	-	-	-	0.42	IS 3025 (Part 60)
INFERENCE		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)

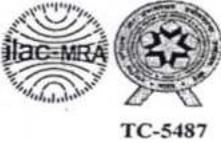
Assistant Scientific Officer

Farhath Jabeen

Authorized Signatory (Chemical)
(Farhath Jabeen)

Deputy Scientific Officer

---End of Report---



**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

ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಬೆಂಗಳೂರು
ಕೆ.ಎಸ್.ಪಿ.ಸಿ.ಬಿ., "ನಿಸರ್ಗ ಭವನ"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore - 560079

ANALYSIS REPORT

Date : 23/01/2023

1	Station code	4532				Page 1 of 2	
2	Date & time of Sample taken	Date	13.12.2022	Time	2:00PM	Type of Water Body	Lake
3	Name of Monitoring Station	Chandapura Lake				SAMPLE COLLECTED BY: Sri.C R Manjunath, EO RO: Sarjapura	
4	Visible Effluent Discharge in Proximity	None	Moderate ✓	High	Other	Completed by	Scientific 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 ✓	Date of commencement of test	14.12.2022
8	Colour	Clear ✓	Turbid	Green	Brown	Date of completion of test	21.12.2022
9	Odour	None	Fishy	H ₂ S	Other ✓	Sample Report No.	W-3074
10	Particulars of sample collected	Lake Water Sample				Sample No.	W-3074

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	2005 IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	92000	APHA 23 rd edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	4000	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	3.1	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 °C)	mg/L	2	3	3	-	-	11	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	109	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	6.2	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	1.9	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	8.0	IS 3025 (Part 10)
13	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	544	IS 3025 (Part 21)

P.T.O

1	Station code	4532				Page 2 of 2	
2	Date & time of Sample taken	Date	13.12.2022	Time	2:00PM	Type of Water Body	Lake
3	Name of Monitoring Station	Chandapura Lake				SAMPLE COLLECTED BY: SRI. C R Manjunath, EO RO: Sarjapura	
4	Date of commencement of test	14.12.2022				W-3074	
5	Date of completion of test	21.12.2022				W-3074	
6	Particulars of sample collected	Lake water sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
14	Calcium as CaCO ₃	mg/L	-	-	-	-	-	280	IS 3025 (Part 40)
15	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	264	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	312	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	193	IS 3025 (Part 5)
18	Potassium as K	mg/L	-	-	-	-	-	25	IS 3025 (Part 4)
19	Sulphate as SO ₄	mg/L	-	-	-	-	-	31	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	564	
22	Bicarbonate (HCO ₃)	mg/L	-	-	-	-	-	564	
23	Carbonate (CO ₃)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	1366	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	0.82	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.38	IS 3025 (Part 60)
INFERENCE		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
CENTRAL ENVIRONMENTAL LABORATORY**

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

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date : 31-07-2023

1	Station code	4532				Page 1 of 2	
2	Date & time of Sample taken	Date	28-06-2023	Time	01.00 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Chandapura Lake				SAMPLE COLLECTED BY : Sri. G S Manjunatha, DEO RO: Sarjapura	
4	Temperature	20° C					
5	Visible Effluent Discharge in Proximity	None	Moderate✓	High	Other	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	30-06-2023
9	Colour	Clear ✓	Turbid	Green	Light Black	Date of completion of test	07-07-2023
10	Odour	None	Fishy	H2S	Other ✓	Sample Report No.	W-903
11	Particulars of sample collected	Lake Water Sample				Sample No.	W-903

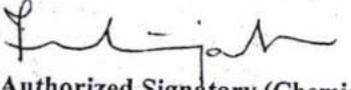
Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.4	IS 3025 (Part 11): 2022
2	Conductivity	µS/cm	-	-	-	-	2250	2620	IS 3025 (Part 14): 2019
3	Oxygen (Dissolved)	mg/L	6	5	4	4	-	BDL	IS 3025 (Part 38): 2019
4	Biochemical Oxygen Demand @ 27° C for 3 days	mg/L	2	3	3	-	-	58	IS 3025 (Part 44): 2019
5	Chemical Oxygen Demand	mg/L	-	-	-	-	-	204	IS 3025 (Part 58): 2017
6	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B) : 2017
7	Nitrate Nitrogen as N	mg/L	-	-	-	-	-	14	IS 3025 (Part 34): 2019
8	Ammonia as N	mg/L	-	-	-	-	-	21	IS 3025 (Part 34): 2019
9	Turbidity	NTU	-	-	-	-	-	27.6	IS 3025 (Part 10): 2017
10	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	970	IS 3025 (Part 21): 2019
11	Calcium as CaCO ₃	mg/L	-	-	-	-	-	510	IS 3025 (Part 40): 2019
12	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	460	IS 3025 (Part 46): 2019

P.T.O

1	Station code	4532				Page 2 of 2	
2	Date & time of Sample taken	Date	28-06-2023	Time	01.00 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Chandapura Lake				SAMPLE COLLECTED BY : Sri. G S Manjunatha, DEO RO: Sarjapura	
4	Date of commencement of test	30-06-2023				W-903	
5	Date of completion of test	07-07-2023				W-903	
6	Particulars of sample collected	Lake Water Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
13	Chloride as Cl	mg/L	-	-	-	-	-	390	IS 3025 (Part 32): 2019
14	Sodium as Na	mg/L	-	-	-	-	-	232	IS 3025 (Part 45): 2019
15	Potassium as K	mg/L	-	-	-	-	-	30	IS 3025 (Part 45): 2019
16	Sulphate as SO ₄	mg/L	-	-	-	-	-	22	IS 3025 (Part 24): 2022
17	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025(Part 23) : 2019
18	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	760	
19	Bicarbonate (HCO ₃)	mg/L	-	-	-	-	-	760	
20	Carbonate (CO ₃)	mg/L	-	-	-	-	-	Nil	
21	Total Dissolved Solids	mg/L	-	-	-	-	-	1752	IS 3025 (Part 16): 2017
22	Total Phosphate as P	mg/L	-	-	-	-	-	3.0	IS 3025 (Part 31): 2022
23	Fluoride as F	mg/L	-	-	-	-	-	0.75	IS 3025 (Part 60): 2019
INFERENCE		Class "E"- to prescribed standards with respect to Oxygen (Dissolved), Conductivity 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. Inference stated is based on the parameters tested only.
 5. BDL: Below Detection Level in mg/L.
Boron as B:0.1;Oxygen (Dissolved):1.0.


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

—End of Report—



**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-5487
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ಕರ್ನಾಟಕ ಸರ್ಕಾರ, "ನಿರ್ಗಮ ಭವನ",
7 ಸಿ 'ಡಿ' ಅಡ್ಡರಸ್ತೆ, ಚಂದಪುರ, ರಸ್ತೆ,
ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date : 16-08-2023

Page 1 of 2

1	Station code	4532				Date : 16-08-2023	
2	Date & time of Sample taken	Date	19-07-2023	Time	03.40PM	Type of Water Body	Lake
3	Name of Monitoring Station	Chandapura Lake				SAMPLE COLLECTED BY : Dr. H R Puttaraju, EO RO: Sarjapura	
4	Temperature	20° C					
5	Visible Effluent Discharge in Proximity	None	Moderate √	High	Other	Completed by	Assistant Scientific Officer
6	Weather	Cloudy	Clear√	Windy	Raining	Verified by:	Deputy Scientific Officer
7	Depth of water body (meter)	< 50cm	50-100cm√	>100 cm	Flood	Agency:	Karnataka
8	Human Activities	Cattle Wading	Melon Farming	Fishing	Other√	Date of commencement of test	20-07-2023
9	Colour	Clear√	Turbid	Green	Light Black	Date of completion of test	25-07-2023
10	Odour	None	Fishy	H2S	Other√	Sample Report No.	W-1091
11	Particulars of sample collected	Lake Water Sample				Sample No.	W-1091

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	2390	IS 3025 (Part 14): 2019
3	Total Coliform	MPN /100ml	50	500	5000	-	-	2400000	APHA 23rd edition (9221 B): 2017
4	fecal Coliform	MPN /100ml	-	-	-	-	-	220000	APHA 23rd edition (9221 E): 2017
5	Oxygen (Dissolved)	mg/L	6	5	4	4	-	BDL	IS 3025 (Part 38): 2019
6	Biochemical Oxygen Demand @ 27° C for 3 days	mg/L	2	3	3	-	-	25	IS 3025 (Part 44): 2019
7	Chemical Oxygen Demand	mg/L	-	-	-	-	-	313	IS 3025 (Part 58): 2017
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B): 2017
9	Nitrate Nitrogen as N	mg/L	-	-	-	-	-	7.3	IS 3025 (Part 34): 2019
10	Ammonia as N	mg/L	-	-	-	-	-	4.6	IS 3025 (Part 34): 2019
11	Turbidity	NTU	-	-	-	-	-	8.2	IS 3025 (Part 10): 2017
12	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	648	IS 3025 (Part 21): 2019

1	Station code	4532			Page 2 of 2	
2	Date & time of Sample taken	Date	19-07-2023	Time	03.40PM	Type of Water Body Lake
3	Name of Monitoring Station	Chandapura Lake			SAMPLE COLLECTED BY : Dr. H R Puttaraju, EO RO: Sarjapura	
4	Date of commencement of test	20-07-2023			W-1091	
5	Date of completion of test	25-07-2023			W-1091	
6	Particulars of sample collected	Lake Water Sample				

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
13	Calcium as CaCO ₃	mg/L	-	-	-	-	-	328	IS 3025 (Part 40): 2019
14	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	320	IS 3025 (Part 46): 2019
15	Chloride as Cl	mg/L	-	-	-	-	-	408	IS 3025 (Part 32): 2019
16	Sodium as Na	mg/L	-	-	-	-	-	199	IS 3025 (Part 45): 2019
17	Potassium as K	mg/L	-	-	-	-	-	21	IS 3025 (Part 45): 2019
18	Sulphate as SO ₄	mg/L	-	-	-	-	-	30	IS 3025 (Part 24): 2022
19	P- Alkalinity	mg/L	-	-	-	-	-	BDL	IS 3025(Part 23) : 2019
20	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	620	
21	Bicarbonate (HCO ₃)	mg/L	-	-	-	-	-	620	
22	Carbonate (CO ₃)	mg/L	-	-	-	-	-	BDL	
23	Total Dissolved Solids	mg/L	-	-	-	-	-	1630	IS 3025 (Part 16): 2017
24	Total Phosphate as P	mg/L	-	-	-	-	-	1.24	IS 3025 (Part 31): 2022
25	Fluoride as F	mg/L	-	-	-	-	-	0.844	IS 3025 (Part 60): 2019
INFERENCE		Class "E"- to prescribed standards with respect to Oxygen (Dissolved), Conductivity and Total Coliform, 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;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

—End of Report—



TC-5487



KARNATAKA STATE POLLUTION CONTROL BOARD
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ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., "ನಿಸರ್ಗ ಭವನ",
7 ನೇ 'ಡಿ' ಅಡ್ಡರಸ್ತೆ, ಹಿಮ್ಮಾಯ್ಕೆ ರಸ್ತೆ,
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K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

95

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date : 04-08-2023

NAME OF THE LAKE :	Chandapura Lake, Outlet Cholarakatte, Attibele Hobli, Anekal Taluk , Bengaluru Urban District. .	Page 1 of 2
SAMPLE COLLECTED BY :	Sri. G S Manjunatha, DEO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST :01-08-2023
DATE OF COLLECTION :	31-07-2023	DATE OF COMPLETION OF TEST :04-08-2023
DATE OF RECEIPT :	01-08-2023	SAMPLE REPORT NO. : W-1203
PARTICULARS	Lake Water Sample	SAMPLE NO. : W-1203

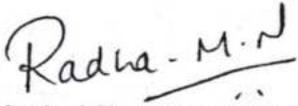
Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.3	IS 3025 (Part 11): 2022
2	Conductivity	µS/cm	-	-	-	-	2250	2430	IS 3025 (Part 14): 2019
3	Total Coliform	MPN /100ml	50	500	5000	-	-	24000000	APHA 23rd edition (9221 B): 2017
4	Fecal Coliform	MPN /100ml	-	-	-	-	-	3400000	APHA 23rd edition (9221 E): 2017
5	Oxygen (Dissolved)	mg/L	6	5	4	4	-	BDL	IS 3025 (Part 38): 2019
7	Biochemical Oxygen Demand @ 27° C for 3 days	mg/L	2	3	3	-	-	81	IS 3025 (Part 44): 2019
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	288	IS 3025 (Part 58): 2017
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B) : 2017
10	Nitrate Nitrogen as N	mg/L	-	-	-	-	-	8.0	IS 3025 (Part 34): 2019
11	Ammonia as N	mg/L	-	-	-	-	-	16.20	IS 3025 (Part 34): 2019
12	Turbidity	NTU	-	-	-	-	-	36.5	IS 3025 (Part 10): 2017
13	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	560	IS 3025 (Part 21): 2019
14	Calcium as CaCO ₃	mg/L	-	-	-	-	-	288	IS 3025 (Part 40): 2019

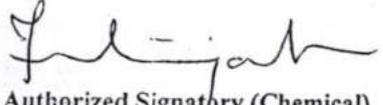
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15	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	272	IS 3025 (Part 46): 2019
16	Chloride as Cl	mg/L	-	-	-	-	-	452	IS 3025 (Part 32): 2019
17	Sodium as Na	mg/L	-	-	-	-	-	235	IS 3025 (Part 45): 2019
18	Potassium as K	mg/L	-	-	-	-	-	33	IS 3025 (Part 45): 2019
19	Sulphate as SO ₄	mg/L	-	-	-	-	-	23	IS 3025 (Part 24): 2022
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025(Part 23) : 2019
21	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	528	
22	Bicarbonate (HCO ₃)	mg/L	-	-	-	-	-	528	
23	Carbonate (CO ₃)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	1630	IS 3025 (Part 16): 2017
25	Total Phosphate as P	mg/L	-	-	-	-	-	1.0	IS 3025 (Part 31): 2022
26	Fluoride as F	mg/L	-	-	-	-	-	0.91	IS 3025 (Part 60): 2019

INFERENCE	Class "E"- to prescribed standards with respect to Oxygen (Dissolved), Conductivity and Total Coliform , 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;Oxygen (Dissolved):1.0.


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


 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 17025:2017 accredited Testing Laboratory by NABL vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date : 31-10-2023

Page 1 of 2

1	Station code	4532				Date : 31-10-2023	
2	Date & time of Sample taken	Date	15-09-2023	Time	3.05 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Chandapura Lake				SAMPLE COLLECTED BY :	
4	Temperature	24°C				Dr. HR Puttaraju EO	
5	Visible Effluent Discharge in Proximity	None	Moderate ✓	High	Other	Completed by	Project Assistant
6	Weather	Cloudy	Clear	Windy	Light Rain ✓	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	15-09-2023
9	Colour	Clear	Turbid	Brown ✓	Clear	Date of completion of test	25-09-2023
10	Odour	None	Fishy ✓	H ₂ S	Other	Sample Report No.	W-1790
11	Particulars of sample collected	Lake Water Sample				Sample No.	W-1790

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	6.8	IS 3025 (Part 11): 2022
Conductivity	µS/cm	-	-	-	-	2250	1813	IS 3025 (Part 14): 2019
Tot Coliform	MPN/100ml	50	500	5000	-	-	35000	APHA 23rd edition (9221 B): 2017
Fecal Coliform	MPN/100ml	-	-	-	-	-	3100	APHA 23rd edition (9221 E): 2017
Oxygen (Dissolved)	mg/L	6	5	4	4	-	1.9	IS 3025 (Part 38): 2019
Biochemical Oxygen Demand @ 27° C for 3 days	mg/L	2	3	3	-	-	29	IS 3025 (Part 44): 2019
Chemical Oxygen Demand	mg/L	-	-	-	-	-	196	IS 3025 (Part 58): 2017
Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B) : 2017
Nitrate Nitrogen as N	mg/L	-	-	-	-	-	5.0	APHA 23rd edition (4500-NO3-D): 2017
Ammonia as N	mg/L	-	-	-	-	-	4.0	IS 3025 (Part 34): 2019
Turbidity	NTU	-	-	-	-	-	20.3	IS 3025 (Part 10): 2017
Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	448	IS 3025 (Part 21): 2019
Calcium as CaCO ₃	mg/L	-	-	-	-	-	228	IS 3025 (Part 40): 2019

P.T.O

1	Station code	4532				Page 2 of 2	
2	Date & time of Sample taken	Date	15-09-2023	Time	3.05 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Chandapura Lake				SAMPLE COLLECTED BY : Dr. HR Puttaraju EO RO: Sarjapura	
4	Date of commencement of test	15-09-2023				W-1790	
5	Date of completion of test	25-09-2023				W-1790	
6	Particulars of sample collected	Lake water sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
14	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	220	IS 3025 (Part 46): 2019
15	Chloride as Cl	mg/L	-	-	-	-	-	332	IS 3025 (Part 32): 2019
16	Sodium as Na	mg/L	-	-	-	-	-	183	IS 3025 (Part 45): 2019
17	Potassium as K	mg/L	-	-	-	-	-	17	IS 3025 (Part 45): 2019
18	Sulphate as SO ₄	mg/L	-	-	-	-	-	38	IS 3025 (Part 24): 2022
19	P- Alkalinity	mg/L	-	-	-	-	-	BDL	IS 3025(Part 23) :2019
20	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	400	
21	Bicarbonate (HCO ₃)	mg/L	-	-	-	-	-	400	
22	Carbonate (CO ₃)	mg/L	-	-	-	-	-	BDL	
23	Total Dissolved Solids	mg/L	-	-	-	-	-	1232	IS 3025 (Part 16): 2017
24	Total Phosphate as P	mg/L	-	-	-	-	-	0.2	IS 3025 (Part 31): 2022
25	Fluoride as F	mg/L	-	-	-	-	-	0.49	IS 3025 (Part 60): 2019
INFERENCE		Class " E " - to prescribed standards with respect to Total Coliform ,Oxygen (Dissolved), 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; P- Alkalinity: 2.0; Carbonate (CO₃):2.0.


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

---End of Report---



TC-5487



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

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7 ಥೇ 'ಡಿ' ಅಡ್ಡರಸ್ತೆ, ತಿಮ್ಮಿಾಹ ರೋಡ್,
ಶಿವಾನಗರ, ಬೆಂಗಳೂರು-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

NAME OF THE LAKE :	Chandapura Lake, Tank-2, Attibele Hobli, Anekal Taluk, Bengaluru Urban District.	Date : 06-11-2023
SAMPLE COLLECTED BY :	Dr. H R Puttaraju, EO RO: Sarjapura	Page 1 of 2
DATE OF COLLECTION :	09-10-2023	DATE OF COMMENCEMENT OF TEST :09-10-2023
DATE OF RECEIPT :	09-10-2023	DATE OF COMPLETION OF TEST :13-10-2023
PARTICULARS	Lake Water Sample	SAMPLE REPORT NO. : W-2266
		SAMPLE NO. : W-2266

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	7.5	IS 3025 (Part 11): 2022
2	Conductivity	µS/cm	-	-	-	-	2250	1909	IS 3025 (Part 14): 2019
3	Total Coliform	MPN /100ml	50	500	5000	-	-	54000	APHA 23rd edition (9221 B): 2017
4	Fecal Coliform	MPN /100ml	-	-	-	-	-	4900	APHA 23rd edition (9221 E): 2017
5	Oxygen (Dissolved)	mg/L	6	5	4	4	-	1.8	IS 3025 (Part 38): 2019
6	Biochemical Oxygen Demand @ 27° C for 3 days	mg/L	2	3	3	-	-	51	IS 3025 (Part 44): 2019
7	Chemical Oxygen Demand	mg/L	-	-	-	-	-	240	IS 3025 (Part 58): 2017
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B) : 2017
9	Nitrate Nitrogen as N	mg/L	-	-	-	-	-	8.0	IS 3025 (Part 34): 2019
10	Ammonia as N	mg/L	-	-	-	-	-	6.2	IS 3025 (Part 34): 2019
11	Turbidity	NTU	-	-	-	-	-	11.3	IS 3025 (Part 10): 2017
12	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	328	IS 3025 (Part 21): 2019
13	Calcium as CaCO ₃	mg/L	-	-	-	-	-	168	IS 3025 (Part 40): 2019
14	Calcium as Ca	mg/L	-	-	-	-	-	67	IS 3025(Part 40): 2019

P.T.O

NAME OF THE LAKE :		Outlet of Chandapura Lake Attible Hobli, Anekal Taluk, Bengaluru Urban District						Page 2 of 2	
SAMPLE COLLECTED BY :		Sri. Dr. H R Puttaraju EO RO: Sarjapura				DATE OF COMMENCEMENT OF TEST : 17.11.2023			
DATE OF COLLECTION :		16.11.2023				DATE OF COMPLETION OF TEST : 21.11.2023			
DATE OF RECEIPT :		17.11.2023				SAMPLE REPORT NO. : W- 2749			
PARTICULARS		Lake Water Sample				SAMPLE NO. : W-2749			
22	Sulphate as SO ₄	mg/L	-	-	-	-	-	38	IS 3025 (Part 24): 2022
23	P- Alkalinity	mg/L	-	-	-	-	-	BDL	IS 3025(Part 23) :2019
24	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	444	
25	Bicarbonate (HCO ₃)	mg/L	-	-	-	-	-	444	
26	Carbonate (CO ₃)	mg/L	-	-	-	-	-	BDL	
27	Sodium Absorption Ratio (SAR)	-	-	-	-	-	26	4.0	IS:11624: 2019
28	Free Ammonia as N	mg/L	-	-	-	1.2	-	BDL	APHA 23rd edition (4500 NH3-D): 2017
29	Total Dissolved Solids	mg/L	-	-	-	-	-	1338	IS 3025 (Part 16): 2017
30	Total Suspended Solids	mg/L	-	-	-	-	-	20	IS 3025 (Part 17): 2022
31	Total Phosphate as P	mg/L	-	-	-	-	-	2.0	IS 3025 (Part 31): 2022
32	Ortho Phosphate as Po ₄	mg/L	-	-	-	-	-	6.0	IS 3025 (Part 31): 2022
33	Fluoride as F	mg/L	-	-	-	-	-	0.37	IS 3025 (Part 60): 2019
INFERENCE		Class "E" - to prescribed standards with respect to Oxygen (Dissolved), Biochemical Oxygen Demand @ 27° C for 3 days, Total coliforms 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.

P- Alkalinity: 2.0; Carbonate (CO₃): 2.0; Free Ammonia as N:1.0; 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

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

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 17.11.2023

NAME OF THE LOCATION :	Drain located opp. to Vinayaka wines, Hosur Road, Kammasandra Road, Kammasandra, Anekal Taluk, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 26.10.2023
DATE OF COLLECTION :	25.10.2023	DATE OF COMPLETION OF TEST : 04.11.2023
DATE OF RECEIPT :	26.10.2023	SAMPLE REPORT NO: WW-1796
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1796

Sl No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	Light black colour	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	7.6	IS 3025 (Part 11): 2012
4	Total Suspended Solids	mg/L	100	88	IS 3025 (Part 17): 2012
5	Oil and Grease	mg/L	10	BDL	APHA 23 rd edition (5520B): 2017
6	Ammonical Nitrogen as N	mg/L	50	13	IS 3025(Part 34): 2019
7	Total Kjeldhal Nitrogen	mg/L	100	17	IS 3025 (Part 34): 2019
8	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D):
9	Biochemical Oxygen Demand @ 27°C for 3 days	mg/L	30	44	IS 3025 (Part 44): 2019
10	Chemical Oxygen Demand	mg/L	250	241	IS 3025 (Part 58): 2017
11	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
12	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
13	Fluoride as F	mg/L	2.0	0.57	IS 3025 (Part 60): 2019
14	Dissolved (Ortho) Phosphate as P	mg/L	5.0	4.6	IS 3025 (Part 31): 2019
15	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
16	Nitrate Nitrogen as NO ₃	mg/L	10	20	IS 3025 (Part 34): 2019
17	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019

NAME OF THE LOCATION :	Drain located opp. to Vinayaka wines, Hosur Road, Kammasandra Road, Kammasandra, Anekal Taluk, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 26.10.2023
DATE OF COLLECTION :	25.10.2023	DATE OF COMPLETION OF TEST : 04.11.2023
DATE OF RECEIPT :	26.10.2023	SAMPLE REPORT NO: WW-1796
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1796

Sl No	Parameters	Unit	Standard	Result	Test Method
18	Copper as Cu	mg/L	3.0	0.179	IS 3025 (Part 42): 2019
19	Lead as Pb	mg/L	0.1	BDL	IS 3025 (Part 47): 2019
20	Zinc as Zn	mg/L	5.0	0.198	IS 3025 (Part 49): 2019
21	Nickel as Ni	mg/L	3.0	BDL	IS 3025 (Part 54): 2019
22	Iron as Fe	mg/L	3.0	1.419	IS 3025 (Part 53): 2019
23	Manganese as Mn	mg/L	2.0	0.225	APHA 23 rd Edition (3111B): 2017
24	Cadmium as Cd	mg/L	2.0	BDL	IS 3025 (Part 41): 2019
25	Total Chromium	mg/L	2.0	BDL	IS 3025 (Part 52): 2019
26	Mercury as Hg	mg/L	0.01	BDL	APHA 23 rd Edition (3125B): 2017
27	Arsenic as As	mg/L	0.2	BDL	
28	Selenium as Se	mg/L	0.05	BDL	
29	Vanadium as V	mg/L	0.2	BDL	
INFERENCE		Non Conforms to prescribed standards with respect to Biochemical Oxygen Demand @ 27°C for 3 days and Nitrate-Nitrogen as NO ₃			

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 15 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L

Oil and Grease:1.0;Free Ammonia as NH₃:1.0;Hexavalent Chromium as Cr+6:0.05;Cyanide as CN:0.03; Dissolved (Ortho) Phosphate as P:0.05;Sulphide as S:2.0;Phenolic Compounds as C₆H₅OH:0.1; Lead as Pb:0.2;Nickel as Ni:0.1;Cadmium as Cd:0.03;Total Chromium:0.2;Mercury as Hg:0.0015; Arsenic as As:0.003;Selenium as Se:0.018;Vanadium as V:0.005;


Authorized Signatory (Chemical)
(Dr. B.M. Sreedhara Nayaka)
Scientific Officer



TC-5487



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CENTRAL ENVIRONMENTAL LABORATORY**

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7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 17.11.2023

NAME OF THE LOCATION :	Storm water drain located adjacent to the Kithaganahalli Lake, Anekal Taluk, Bengaluru Urban District.	Page 1 of 1
SAMPLE COLLECTED BY :	Dr. H. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 26.10.2023
DATE OF COLLECTION :	25.10.2023	DATE OF COMPLETION OF TEST : 04.11.2023
DATE OF RECEIPT :	26.10.2023	SAMPLE REPORT NO: WW-1795
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1795

Sl No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	Block Colour	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	6.6	IS 3025 (Part 11): 2012
4	Total Suspended Solids	mg/L	100	94	IS 3025 (Part 17): 2012
5	Oil and Grease	mg/L	10	BDL	APHA 23 rd edition (5520B): 2017
6	Ammonical Nitrogen as N	mg/L	50	15	IS 3025(Part 34): 2019
7	Total Kjeldhal Nitrogen	mg/L	100	18.5	IS 3025 (Part 34): 2019
8	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH ₃ -D):
9	Biochemical Oxygen Demand @ 27°C for 3 days	mg/L	30	45	IS 3025 (Part 44): 2019
10	Chemical Oxygen Demand	mg/L	250	349	IS 3025 (Part 58): 2017
11	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
12	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
13	Fluoride as F	mg/L	2.0	0.42	IS 3025 (Part 60): 2019
14	Dissolved (Ortho) Phosphate as P	mg/L	5.0	4.2	IS 3025 (Part 31): 2019
15	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
16	Nitrate Nitrogen as NO ₃	mg/L	10	21.4	IS 3025 (Part 34): 2019
17	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019

NAME OF THE LOCATION :	Storm water drain located adjacent to the Kithaganahalli Lake, Anekal Taluk, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 26.10.2023
DATE OF COLLECTION :	25.10.2023	DATE OF COMPLETION OF TEST : 04.11.2023
DATE OF RECEIPT :	26.10.2023	SAMPLE REPORT NO: WW-1795
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1795

Sl No	Parameters	Unit	Standard	Result	Test Method
18	Copper as Cu	mg/L	3.0	3.415	IS 3025 (Part 42): 2019
19	Lead as Pb	mg/L	0.1	BDL	IS 3025 (Part 47): 2019
20	Zinc as Zn	mg/L	5.0	2.842	IS 3025 (Part 49): 2019
21	Nickel as Ni	mg/L	3.0	1.239	IS 3025 (Part 54): 2019
22	Iron as Fe	mg/L	3.0	11.265	IS 3025 (Part 53): 2019
23	Manganese as Mn	mg/L	2.0	2.562	APHA 23 rd Edition (3111B): 2017
24	Cadmium as Cd	mg/L	2.0	BDL	IS 3025 (Part 41): 2019
25	Total Chromium	mg/L	2.0	BDL	IS 3025 (Part 52): 2019
26	Mercury as Hg	mg/L	0.01	BDL	APHA 23 rd Edition (3125B): 2017
27	Arsenic as As	mg/L	0.2	BDL	
28	Selenium as Se	mg/L	0.05	0.032	
29	Vanadium as V	mg/L	0.2	0.01	
INFERENCE		Non Conforms to prescribed standards with respect to Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand, Nitrate Nitrogen as NO ₃ , Copper as Cu, Iron as Fe and Manganese as Mn			

- 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 15 days from the date of issue of report.
 4. BDL: Below Detection Level in mg/L

Oil and Grease:1.0;Free Ammonia as NH₃:1.0;Hexavalent Chromium as Cr+6:0.05;Cyanide as CN:0.03;
 Dissolved (Ortho) Phosphate as P:0.05;Sulphide as S:2.0;Phenolic Compounds as C₆H₅OH:0.1;
 Lead as Pb:0.2;Cadmium as Cd:0.03;Total Chromium:0.2;Mercury as Hg:0.0015;Arsenic as As:0.003;

(Signature)
 Authorized Signatory (Chemical)
 (Dr. B.M. Sreedhara Nayaka)
 Scientific Officer



TC-5487



**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-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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ಕ.ಸ.ಪ.ಪ.ನಿ.ಮಂ., "ನಿಸರ್ಗ ಭವನ",
7 ನೇ 'ಡಿ' ಅಡ್ಡರಸ್ತೆ, ಶಿವಮೊಯ್ತೆ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 24.11.2023

NAME OF THE INDUSTRY :	Storm water drain located adjacent to the Kithaganahalli lake, Near Bommasandra Indl Area, Anekal Taluk, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 17.11.2023
DATE OF COLLECTION :	16.11.2023	DATE OF COMPLETION OF TEST : 23.11.2023
DATE OF RECEIPT :	17.11.2023	SAMPLE REPORT NO: WW-1931
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1931

Sl No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	Grey Colour	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	6.2	IS 3025 (Part 11): 2022
4	Total Suspended Solids	mg/L	100	194	IS 3025 (Part 17): 2012
5	Ammonical Nitrogen as N	mg/L	50	28	IS 3025(Part 34): 2019
5	Total Kjeldhal Nitrogen	mg/L	100	36	IS 3025 (Part 34): 2019
6	Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D): 2017
7	Biochemical Oxygen Demand @ 27°C for 3 days	mg/L	30	203	IS 3025 (Part 44): 2019
8	Chemical Oxygen Demand	mg/L	250	692	IS 3025 (Part 58): 2017
9	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
10	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
11	Fluoride as F	mg/L	2.0	0.8	IS 3025 (Part 60): 2019
12	Dissolved (Ortho) Phosphate as P	mg/L	5.0	0.1	IS 3025 (Part 31): 2019
13	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
14	Nitrate Nitrogen as NO ₃	mg/L	10	89	IS 3025 (Part 34): 2019
15	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019
16	Copper as Cu	mg/L	3.0	4.06	APHA 23 rd Edition (3125B): 2017
17	Lead as Pb	mg/L	0.1	0.04	
18	Zinc as Zn	mg/L	5.0	2.10	

NAME OF THE INDUSTRY :	Storm water drain located adjacent to the Kithaganahalli lake, Near Bommasandra Indl Area, Anekal Taluk, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 17.11.2023
DATE OF COLLECTION :	16.11.2023	DATE OF COMPLETION OF TEST 23.11.2023
DATE OF RECEIPT :	17.11.2023	SAMPLE REPORT NO: WW-1931
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1931

SI No	Parameters	Unit	Standard	Result	Test Method
20	Nickel as Ni	mg/L	3.0	5.37	APHA 23rd Edition (3125B): 2017
21	Iron as Fe	mg/L	3.0	10.87	
22	Manganese as Mn	mg/L	2.0	1.47	
23	Cadmium as Cd	mg/L	2.0	BDL	
24	Total Chromium	mg/L	2.0	0.51	
25	Mercury as Hg	mg/L	0.001	BDL	
26	Arsenic as As	mg/L	0.2	BDL	
27	Selenium as Se	mg/L	0.05	BDL	
28	Vanadium as V	mg/L	0.2	BDL	APHA 23 rd edition (9221 E): 2017
29	Fecal coliform	MPN/100ml	-	240	
INFERENCE		Non Conforms to prescribed standards with respect to Total Suspended Solids, Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand, Nitrate Nitrogen as NO ₃ , Copper as Cu, Nickel as Ni and Iron as Fe			

- 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 15 days from the date of issue of report.
4. BDL: Below Detection Level in mg/L

Free Ammonia as NH₃:1.0;Hexavalent Chromium as Cr⁺⁶:0.05;Cyanide as CN:0.03;
Sulphide as S:2.0;Phenolic Compounds as C₆H₅OH:0.1;Cadmium as Cd:0.003;Mercury as Hg:0.0015;
Arsenic as As:0.003;Selenium as Se:0.018;Vanadium as V:0.005;

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

Dr. B.M. Sreedhara Nayaka
Authorized Signatory (Chemical)
(Dr. B.M. Sreedhara Nayaka)
Scientific Officer



TC-5487



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

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 24.11.2023

NAME OF THE INDUSTRY :	Water drain/Rajakaluve passing adjacent to proposed Brigade Residential apartment project hosur road, Chandapura, Anekal tq, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 17.11.2023
DATE OF COLLECTION :	16.11.2023	DATE OF COMPLETION OF TEST : 23.11.2023
DATE OF RECEIPT :	17.11.2023	SAMPLE REPORT NO: WW-1932
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1932

Sl No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	Grey Colour	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	7.4	IS 3025 (Part 11): 2022
4	Total Suspended Solids	mg/L	100	170	IS 3025 (Part 17): 2012
5	Ammonical Nitrogen as N	mg/L	50	19	IS 3025(Part 34): 2019
6	Total Kjeldhal Nitrogen	mg/L	100	24	IS 3025 (Part 34): 2019
7	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D): 2017
8	Biochemical Oxygen Demand @ 27°C for 3 days	mg/L	30	28	IS 3025 (Part 44): 2019
9	Chemical Oxygen Demand	mg/L	250	164	IS 3025 (Part 58): 2017
10	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
11	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
12	Fluoride as F	mg/L	2.0	0.4	IS 3025 (Part 60): 2019
13	Dissolved (Ortho) Phosphate as P	mg/L	5.0	2.0	IS 3025 (Part 31): 2019
14	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
15	Nitrate Nitrogen as NO ₃	mg/L	10	67	IS 3025 (Part 34): 2019
16	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019
17	Copper as Cu	mg/L	3.0	BDL	APHA 23 rd Edition (3125B): 2017
18	Lead as Pb	mg/L	0.1	BDL	
19	Zinc as Zn	mg/L	5.0	BDL	

NAME OF THE INDUSTRY :	Storm water drain located near Old Hebbagodi Police station, Hosur Road, Hebbagodi Anekal tq, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 17.11.2023
DATE OF COLLECTION :	16.11.2023	DATE OF COMPLETION OF TEST : 23.11.2023
DATE OF RECEIPT :	17.11.2023	SAMPLE REPORT NO: WW-1934
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1934

Sl No	Parameters	Unit	Standard	Result	Test Method
20	Nickel as Ni	mg/L	3.0	0.02	APHA 23rd Edition (3125B): 2017
21	Iron as Fe	mg/L	3.0	0.68	
22	Manganese as Mn	mg/L	2.0	0.19	
23	Cadmium as Cd	mg/L	2.0	BDL	
24	Total Chromium	mg/L	2.0	0.01	
25	Mercury as Hg	mg/L	0.001	BDL	
26	Arsenic as As	mg/L	0.2	BDL	
27	Selenium as Se	mg/L	0.05	BDL	
28	Vanadium as V	mg/L	0.2	BDL	APHA 23 rd edition (9221 E): 2017
29	Fecal coliform	MPN/100ml	-	4600000	
INFERENCE		Non Conforms to prescribed standards with respect to Total Suspended Solids, Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand and Nitrate Nitrogen as NO ₃			

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 15 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L

Free Ammonia as NH₃:1.0;Hexavalent Chromium as Cr⁺⁶:0.05;Cyanide as CN:0.03;

Sulphide as S:2.0;Phenolic Compounds as C₆H₅OH:0.1;Cadmium as Cd:0.003;Mercury as Hg:0.0015;

Arsenic as As:0.003;Selenium as Se:0.018;Vanadium as V:0.005;;Lead as Pb:0.006;

Radha M.N

Authorized Signatory (Biological)

(Radha M.N)

Assistant Scientific Officer

Dr. B.M. Sreedhara Nayaka

Authorized Signatory (Chemical)

(Dr. B.M. Sreedhara Nayaka)

Scientific Officer

---End of Report---



TC-5487



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K.S.P.C.B., "Nisarga Bhavana"
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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 24.11.2023

NAME OF THE INDUSTRY :	Storm water drain located Opp. to Gopalan Gardenia Apartment adjacent Temple, Hosur road, Veerasandra, Anekal tq, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 17.11.2023
DATE OF COLLECTION :	16.11.2023	DATE OF COMPLETION OF TEST : 23.11.2023
DATE OF RECEIPT :	17.11.2023	SAMPLE REPORT NO: WW-1933
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1933

Sl No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	Grey Colour	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	7.1	IS 3025 (Part 11): 2022
4	Total Suspended Solids	mg/L	100	186	IS 3025 (Part 17): 2012
5	Ammonical Nitrogen as N	mg/L	50	49	IS 3025(Part 34): 2019
6	Total Kjeldhal Nitrogen	mg/L	100	63	IS 3025 (Part 34): 2019
7	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D): 2017
8	Biochemical Oxygen Demand @ 27°C for 3 days	mg/L	30	150	IS 3025 (Part 44): 2019
9	Chemical Oxygen Demand	mg/L	250	556	IS 3025 (Part 58): 2017
10	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
11	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
12	Fluoride as F	mg/L	2.0	0.3	IS 3025 (Part 60): 2019
13	Dissolved (Ortho) Phosphate as P	mg/L	5.0	3.0	IS 3025 (Part 31): 2019
14	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
15	Nitrate Nitrogen as NO ₃	mg/L	10	72	IS 3025 (Part 34): 2019
16	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019
17	Copper as Cu	mg/L	3.0	0.01	APHA 23 rd Edition (3125B): 2017
18	Lead as Pb	mg/L	0.1	BDL	
19	Zinc as Zn	mg/L	5.0	0.02	

NAME OF THE INDUSTRY :	Storm water drain located Opp. to Gopalan Gardenia Apartment adjacent Temple, Hosur road, Veerasandra, Anekal tq, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 17.11.2023
DATE OF COLLECTION :	16.11.2023	DATE OF COMPLETION OF TEST : 23.11.2023
DATE OF RECEIPT :	17.11.2023	SAMPLE REPORT NO: WW-1933
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1933

SI No	Parameters	Unit	Standard	Result	Test Method
20	Nickel as Ni	mg/L	3.0	0.01	APHA 23rd Edition (3125B): 2017
21	Iron as Fe	mg/L	3.0	0.31	
22	Manganese as Mn	mg/L	2.0	0.20	
23	Cadmium as Cd	mg/L	2.0	BDL	
24	Total Chromium	mg/L	2.0	0.01	
25	Mercury as Hg	mg/L	0.001	BDL	
26	Arsenic as As	mg/L	0.2	BDL	
27	Selenium as Se	mg/L	0.05	BDL	
28	Vanadium as V	mg/L	0.2	BDL	APHA 23 rd edition (9221 E): 2017
29	Fecal coliform	MPN/100ml	-	70000000	

INFERENCE

Non Conforms to prescribed standards with respect to Total Suspended Solids, Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand and Nitrate Nitrogen as NO₃

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 15 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L

Free Ammonia as NH₃:1.0;Hexavalent Chromium as Cr⁺⁶:0.05;Cyanide as CN:0.03;

Sulphide as S:2.0;Phenolic Compounds as C₆H₅OH:0.1;Cadmium as Cd:0.003;Mercury as Hg:0.0015;

Arsenic as As:0.003;Selenium as Se:0.018;Vanadium as V:0.005;;Lead as Pb:0.006;

Radha M.N

Authorized Signatory (Biological)

(Radha M.N)

Assistant Scientific Officer

Dr. B.M. Sreedhara Nayaka

Authorized Signatory (Chemical)

(Dr. B.M. Sreedhara Nayaka)

Scientific Officer

---End of Report---



TC-5487



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7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 24.11.2023

NAME OF THE INDUSTRY :	Storm water drain located near Old Hebbagodi Police station, Hosur Road, Hebbagodi Anekal tq, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 17.11.2023
DATE OF COLLECTION :	16.11.2023	DATE OF COMPLETION OF TEST : 23.11.2023
DATE OF RECEIPT :	17.11.2023	SAMPLE REPORT NO: WW-1934
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1934

Sl No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	Grey Colour	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	7.1	IS 3025 (Part 11): 2022
4	Total Suspended Solids	mg/L	100	180	IS 3025 (Part 17): 2012
5	Ammonical Nitrogen as N	mg/L	50	49	IS 3025(Part 34): 2019
6	Total Kjeldhal Nitrogen	mg/L	100	64	IS 3025 (Part 34): 2019
7	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D): 2017
8	Biochemical Oxygen Demand @ 27°C for 3 days	mg/L	30	150	IS 3025 (Part 44): 2019
9	Chemical Oxygen Demand	mg/L	250	528	IS 3025 (Part 58): 2017
10	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
11	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
12	Fluoride as F	mg/L	2.0	0.3	IS 3025 (Part 60): 2019
13	Dissolved (Ortho) Phosphate as P	mg/L	5.0	3.0	IS 3025 (Part 31): 2019
14	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
15	Nitrate Nitrogen as NO ₃	mg/L	10	75	IS 3025 (Part 34): 2019
16	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019
17	Copper as Cu	mg/L	3.0	0.05	APHA 23 rd Edition (3125B): 2017
18	Lead as Pb	mg/L	0.1	BDL	
19	Zinc as Zn	mg/L	5.0	0.05	

NAME OF THE INDUSTRY :	Storm water drain located near Old Hebbagodi Police station, Hosur Road, Hebbagodi Anekal tq, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H.R Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 17.11.2023
DATE OF COLLECTION :	16.11.2023	DATE OF COMPLETION OF TEST : 23.11.2023
DATE OF RECEIPT :	17.11.2023	SAMPLE REPORT NO: WW-1934
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-1934

SI No	Parameters	Unit	Standard	Result	Test Method
20	Nickel as Ni	mg/L	3.0	0.02	APHA 23rd Edition (3125B): 2017
21	Iron as Fe	mg/L	3.0	0.68	
22	Manganese as Mn	mg/L	2.0	0.19	
23	Cadmium as Cd	mg/L	2.0	BDL	
24	Total Chromium	mg/L	2.0	0.01	
25	Mercury as Hg	mg/L	0.001	BDL	
26	Arsenic as As	mg/L	0.2	BDL	
27	Selenium as Se	mg/L	0.05	BDL	
28	Vanadium as V	mg/L	0.2	BDL	APHA 23 rd edition (9221 E): 2017
29	Fecal coliform	MPN/100ml	-	4600000	
INFERENCE		Non Conforms to prescribed standards with respect to Total Suspended Solids, Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand and Nitrate Nitrogen as NO ₃			

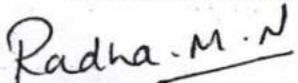
Note: 1. The above results pertain only to the sample tested.

- The report shall not be reproduced without the written approval of the laboratory.
- Samples will be stored for a period of 15 days from the date of issue of report.
- BDL: Below Detection Level in mg/L

Free Ammonia as NH₃:1.0;Hexavalent Chromium as Cr⁺⁶:0.05;Cyanide as CN:0.03;

Sulphide as S:2.0;Phenolic Compounds as C₆H₅OH:0.1;Cadmium as Cd:0.003;Mercury as Hg:0.0015;

Arsenic as As:0.003;Selenium as Se:0.018;Vanadium as V:0.005;;Lead as Pb:0.006;


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


Authorized Signatory (Chemical)
(Dr. B.M. Sreedhara Nayaka)
Scientific Officer

—End of Report—



TC-5487



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

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 02.01.2024

NAME OF THE LOCATION :	Storm water drain located adjacent to Heelalige lake, Heelalige, Anekal Taluk, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 22.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2110
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2110

Sl No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	Grey Colour	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	7.4	IS 3025 (Part 11): 2022
4	Total Suspended Solids	mg/L	100	92	IS 3025 (Part 17): 2012
5	Ammonical Nitrogen as N	mg/L	50	45.92	IS 3025(Part 34): 2019
6	Total Kjeldhal Nitrogen	mg/L	100	61	IS 3025 (Part 34): 2019
7	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D): 2017
8	Biochemical Oxygen Demand @ C for 3 days	mg/L	30	81	IS 3025 (Part 44): 2019
9	Chemical Oxygen Demand	mg/L	250	304	IS 3025 (Part 58): 2017
10	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
11	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
12	Fluoride as F	mg/L	2.0	0.75	IS 3025 (Part 60): 2019
13	Dissolved (Ortho) Phosphate as P	mg/L	5.0	1.5	IS 3025 (Part 31): 2019
14	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
15	Nitrate Nitrogen as NO ₃	mg/L	10	38	IS 3025 (Part 34): 2019
16	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019

P.T.O

NAME OF THE LOCATION :	Storm water drain located adjacent to Heelalige lake, Heelalige, Anekal Taluk, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 22.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2110
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2110

Sl No	Parameters	Unit	Standard	Result	Test Method
17	Bio-Assay	% of survival	90% survival of fish after 96 hours in 100% effluent	0% survival of fishes in 2 hours of effluent	IS 6582: 2019
18	Fecal coliform	MPN/100ml	-	460000	APHA 23 rd edition (9221 E): 2017
19	Copper as Cu	mg/L	3.0	BDL	IS 3025 (Part 42): 2019
20	Lead as Pb	mg/L	0.1	BDL	IS 3025 (Part 47): 2019
21	Zinc as Zn	mg/L	5.0	0.457	IS 3025 (Part 49): 2019
22	Nickel as Ni	mg/L	3.0	BDL	IS 3025 (Part 54): 2019
23	Iron as Fe	mg/L	3.0	1.256	IS 3025 (Part 53): 2019
24	Manganese as Mn	mg/L	2.0	0.379	APHA 23 rd Edition (3111B): 2017
25	Cadmium as Cd	mg/L	2.0	BDL	IS 3025 (Part 41): 2019
26	Total Chromium	mg/L	2.0	BDL	IS 3025 (Part 52): 2019
27	Arsenic as As	mg/L	0.2	BDL	APHA 23 rd Edition (3125B): 2017
28	Selenium as Se	mg/L	0.05	BDL	
29	Vanadium as V	mg/L	0.2	BDL	
INFERENCE		Non Conforms to prescribed standards with respect to Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand, Nitrate Nitrogen as NO ₃ and Bio-Assay			

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 15 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L

Free Ammonia as NH₃:1.0;Hexavalent Chromium as Cr+6:0.05;Cyanide as CN:0.03;Nickel as Ni:0.1;

Phenolic Compounds as C₆H₅OH:0.1;Lead as Pb:0.2;Cadmium as Cd:0.03;Total Chromium:0.2;

Arsenic as As:0.003; Selenium as Se:0.018;Vanadium as V:0.005;Copper as Cu:0.05;

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

Dr. B.M. Sreedhara Nayaka
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Scientific Officer



TC-5487



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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 02.01.2024

NAME OF THE LOCATION :	Storm water drain near Vinayaka wines, Kammasandra, Anekal Taluk, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 22.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2111
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2111

Sl No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	Grey Colour	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	7.3	IS 3025 (Part 11): 2022
4	Total Suspended Solids	mg/L	100	130	IS 3025 (Part 17): 2012
5	Ammonical Nitrogen as N	mg/L	50	47.6	IS 3025(Part 34): 2019
6	Total Kjeldhal Nitrogen	mg/L	100	63	IS 3025 (Part 34): 2019
7	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D): 2017
8	Biochemical Oxygen Demand @ 7 for 3 days	mg/L	30	105	IS 3025 (Part 44): 2019
9	Chemical Oxygen Demand	mg/L	250	384	IS 3025 (Part 58): 2017
10	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
1	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
2	Fluoride as F	mg/L	2.0	3.6	IS 3025 (Part 60): 2019
3	Dissolved (Ortho) Phosphate as P	mg/L	5.0	1.2	IS 3025 (Part 31): 2019
4	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
5	Nitrate Nitrogen as NO ₃	mg/L	10	31	IS 3025 (Part 34): 2019
6	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019

P.T.O

ME OF THE LOCATION :	Storm water drain near Vinayaka wines, Kammasandra, Anekal Taluk, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
TE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 22.12.2023
TE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2111
RTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2111

Parameters	Unit	Standard	Result	Test Method
Bio-Assay	% of survival	90% survival of fish after 96 hours in 100% effluent	0% survival of fishes in 2 hours of effluent	IS 6582: 2019
Fecal coliform	MPN/100ml	-	7900000	APHA 23 rd edition (9221 E): 2017
Copper as Cu	mg/L	3.0	BDL	IS 3025 (Part 42): 2019
Lead as Pb	mg/L	0.1	BDL	IS 3025 (Part 47): 2019
Zinc as Zn	mg/L	5.0	0.68	IS 3025 (Part 49): 2019
Nickel as Ni	mg/L	3.0	0.116	IS 3025 (Part 54): 2019
Iron as Fe	mg/L	3.0	2.398	IS 3025 (Part 53): 2019
Manganese as Mn	mg/L	2.0	0.341	APHA 23 rd Edition (3111B): 2017
Cadmium as Cd	mg/L	2.0	BDL	IS 3025 (Part 41): 2019
Total Chromium	mg/L	2.0	BDL	IS 3025 (Part 52): 2019
Arsenic as As	mg/L	0.2	BDL	APHA 23 rd Edition (3125B): 2017
Selenium as Se	mg/L	0.05	BDL	
Vanadium as V	mg/L	0.2	BDL	
INFERENCE	Non Conforms to prescribed standards with respect to Total Suspended Solids, Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand, Fluoride as F, Nitrate Nitrogen as NO ₃ and Bio-Assay			

Note: 1. 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 15 days from the date of issue of report.
- BDL: Below Detection Level in mg/L

Free Ammonia as NH₃:1.0;Hexavalent Chromium as Cr+6:0.05;Cyanide as CN:0.03;
Phenolic Compounds as C₆H₅OH:0.1;Lead as Pb:0.2;Cadmium as Cd:0.03;Total Chromium:0.2;
Arsenic as As:0.003; Selenium as Se:0.018;Vanadium as V:0.005;Copper as Cu:0.05;

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(Radha M.N)
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CENTRAL ENVIRONMENTAL LABORATORY**

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Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 02.01.2024

NAME OF THE LOCATION :	Storm water drain located opp. to Gopalan Gardenia Apartment adjacent temple, Hosur road, Veerasandra, Anekal tq, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 22.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2112
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2112

Sl No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	Grey Colour	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	7.0	IS 3025 (Part 11): 2022
4	Total Suspended Solids	mg/L	100	256	IS 3025 (Part 17): 2012
5	Ammonical Nitrogen as N	mg/L	50	32.5	IS 3025(Part 34): 2019
6	Total Kjeldhal Nitrogen	mg/L	100	44	IS 3025 (Part 34): 2019
7	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D): 2017
8	Biochemical Oxygen Demand @ for 3 days	mg/L	30	174	IS 3025 (Part 44): 2019
9	Chemical Oxygen Demand	mg/L	250	640	IS 3025 (Part 58): 2017
10	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
11	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
12	Fluoride as F	mg/L	2.0	1.2	IS 3025 (Part 60): 2019
13	Dissolved (Ortho) Phosphate as P	mg/L	5.0	0.98	IS 3025 (Part 31): 2019
14	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
5	Nitrate Nitrogen as NO ₃	mg/L	10	42	IS 3025 (Part 34): 2019
6	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019

NAME OF THE LOCATION :	Storm water drain located opp. to Gopalan Gardenia Apartment adjacent temple, Hosur road, Veerasandra, Anekal tq, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 22.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2112
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2112

Sl No	Parameters	Unit	Standard	Result	Test Method
17	Bio-Assay	% of survival	90% survival of fish after 96 hours in 100% effluent	0% survival of fishes in 2 hours of effluent	IS 6582: 2019
18	Fecal coliform	MPN/100ml	-	3300000000	APHA 23 rd edition (9221 E): 2017
19	Copper as Cu	mg/L	3.0	BDL	IS 3025 (Part 42): 2019
20	Lead as Pb	mg/L	0.1	BDL	IS 3025 (Part 47): 2019
21	Zinc as Zn	mg/L	5.0	BDL	IS 3025 (Part 49): 2019
22	Nickel as Ni	mg/L	3.0	BDL	IS 3025 (Part 54): 2019
23	Iron as Fe	mg/L	3.0	BDL	IS 3025 (Part 53): 2019
24	Manganese as Mn	mg/L	2.0	0.068	APHA 23 rd Edition (3111B): 2017
25	Cadmium as Cd	mg/L	2.0	BDL	IS 3025 (Part 41): 2019
26	Total Chromium	mg/L	2.0	BDL	IS 3025 (Part 52): 2019
27	Arsenic as As	mg/L	0.2	BDL	APHA 23 rd Edition (3125B): 2017
28	Selenium as Se	mg/L	0.05	BDL	
29	Vanadium as V	mg/L	0.2	BDL	
INFERENCE		Non Conforms to prescribed standards with respect to Total Suspended Solids, Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand, Nitrate Nitrogen as NO ₃ and Bio-Assay			

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 15 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L

Free Ammonia as NH₃:1.0; Hexavalent Chromium as Cr+6:0.05; Cyanide as CN:0.03; Nickel as Ni:0.1;

Phenolic Compounds as C₆H₅OH:0.1; Lead as Pb:0.2; Cadmium as Cd:0.03; Total Chromium:0.2; Iron as Fe:0.2;

Arsenic as As:0.003; Selenium as Se:0.018; Vanadium as V:0.005; Copper as Cu:0.05; Zinc as Zn:0.04;

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7th D Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 03.01.2024

NAME OF THE LOCATION :	Storm water drain located adjacent to M/s. Precision Granite and Marbles Pvt. Ltd., Plot No. 140, 2nd Phase, BIA, Anekal Taluk, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 30.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2106
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2106

SI No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	1	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	7.1	IS 3025 (Part 11): 2022
4	Total Suspended Solids	mg/L	100	52	IS 3025 (Part 17): 2012
5	Ammonical Nitrogen as N	mg/L	50	56	IS 3025(Part 34): 2019
6	Total Kjeldhal Nitrogen	mg/L	100	75	IS 3025 (Part 34): 2019
7	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D): 2017
8	Chemical Oxygen Demand @ 27°C for 3 days	mg/L	30	1560	IS 3025 (Part 44): 2019
9	Chemical Oxygen Demand	mg/L	250	3480	IS 3025 (Part 58): 2017
10	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
11	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
12	Fluoride as F	mg/L	2.0	4.7	IS 3025 (Part 60): 2019
13	Dissolved (Ortho) Phosphate as P	mg/L	5.0	2.0	IS 3025 (Part 31): 2019
14	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
15	Nitrate Nitrogen as NO ₃	mg/L	10	91	IS 3025 (Part 34): 2019
16	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019

P.T.O

NAME OF THE LOCATION :	Storm water drain located adjacent to M/s. Precision Granite and Marbles Pvt. Ltd., Plot No. 140, 2nd Phase, BIA, Anekal Taluk, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 30.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2106
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2106

Sl No	Parameters	Unit	Standard	Result	Test Method
17	Bio-Assay	% of survival	90% survival of fish after 96 hours in 100% effluent	0% survival of fishes in 2 hours of effluent	IS 6582: 2019
18	Fecal coliform	MPN/100ml	-	330000000	APHA 23 rd edition (9221 E): 2017
19	Copper as Cu	mg/L	3.0	9.72	IS 3025 (Part 42): 2019
20	Lead as Pb	mg/L	0.1	BDL	IS 3025 (Part 47): 2019
21	Zinc as Zn	mg/L	5.0	2.77	IS 3025 (Part 49): 2019
22	Nickel as Ni	mg/L	3.0	4.51	IS 3025 (Part 54): 2019
23	Iron as Fe	mg/L	3.0	5.28	IS 3025 (Part 53): 2019
24	Manganese as Mn	mg/L	2.0	0.95	APHA 23 rd Edition (3111B): 2017
25	Cadmium as Cd	mg/L	2.0	BDL	IS 3025 (Part 41): 2019
26	Total Chromium	mg/L	2.0	0.48	IS 3025 (Part 52): 2019
27	Arsenic as As	mg/L	0.2	BDL	APHA 23 rd Edition (3125B): 2017
28	Selenium as Se	mg/L	0.05	BDL	
29	Vanadium as V	mg/L	0.2	0.008	
INFERENCE		Non Conforms to prescribed standards with respect to Ammonical Nitrogen as N, Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand, Fluoride as F, Nitrate Nitrogen as NO ₃ , Bio-Assay, Copper as Cu, Nickel as Ni and Iron as Fe			

- 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 15 days from the date of issue of report.
 4. BDL: Below Detection Level in mg/L

Free Ammonia as NH₃:1.0;Hexavalent Chromium as Cr+6:0.05;Cyanide as CN:0.03;Selenium as Se:0.018;
 Phenolic Compounds as C₆H₅OH:0.1;Lead as Pb:0.2;Cadmium as Cd:0.03;Arsenic as As:0.003;

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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪರಿಸರ ಸಂರಕ್ಷಣೆ ಮತ್ತು ಕಲುಷಿತತೆ ನಿಯಂತ್ರಣ ಇಲಾಖೆ
7 ನೇ 'ಡಿ' ಅಡ್ಡರಸ್ತೆ, ಶಿವಮೊಗ್ಗ ರಸ್ತೆ,
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ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 03.01.2024

NAME OF THE LOCATION :	Storm water drain located adjacent to M/s. Bharat Silks, Plot No. 154, 2nd Phase, BIA, Anekal Taluk, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 30.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2107
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2107

SI No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	1	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	8.3	IS 3025 (Part 11): 2022
4	Total Suspended Solids	mg/L	100	54	IS 3025 (Part 17): 2012
5	Ammonical Nitrogen as N	mg/L	50	85	IS 3025(Part 34): 2019
6	Total Kjeldhal Nitrogen	mg/L	100	110	IS 3025 (Part 34): 2019
7	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D): 2017
8	Chemical Oxygen Demand @ 27°C for 3 days	mg/L	30	1680	IS 3025 (Part 44): 2019
9	Chemical Oxygen Demand	mg/L	250	4960	IS 3025 (Part 58): 2017
10	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
11	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
12	Fluoride as F	mg/L	2.0	5.0	IS 3025 (Part 60): 2019
13	Dissolved (Ortho) Phosphate as P	mg/L	5.0	2.0	IS 3025 (Part 31): 2019
14	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
15	Nitrate Nitrogen as NO ₃	mg/L	10	116	IS 3025 (Part 34): 2019
16	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019

P.T.O

NAME OF THE LOCATION :	Storm water drain located adjacent to M/s. Bharat Silks, Plot No. 154, 2nd Phase, BIA, Anekal Taluk, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 30.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2107
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2107

Sl No	Parameters	Unit	Standard	Result	Test Method
17	Bio-Assay	% of survival	90% survival of fish after 96 hours in 100% effluent	0% survival of fishes in 2 hours of effluent	IS 6582: 2019
18	Fecal coliform	MPN/100ml	-	79000	APHA 23 rd edition (9221 E): 2017
19	Copper as Cu	mg/L	3.0	0.231	IS 3025 (Part 42): 2019
20	Lead as Pb	mg/L	0.1	BDL	IS 3025 (Part 47): 2019
21	Zinc as Zn	mg/L	5.0	2.62	IS 3025 (Part 49): 2019
22	Nickel as Ni	mg/L	3.0	2.08	IS 3025 (Part 54): 2019
23	Iron as Fe	mg/L	3.0	1.22	IS 3025 (Part 53): 2019
24	Manganese as Mn	mg/L	2.0	0.55	APHA 23 rd Edition (3111B): 2017
25	Cadmium as Cd	mg/L	2.0	BDL	IS 3025 (Part 41): 2019
26	Total Chromium	mg/L	2.0	0.41	IS 3025 (Part 52): 2019
27	Arsenic as As	mg/L	0.2	BDL	APHA 23 rd Edition (3125B): 2017
28	Selenium as Se	mg/L	0.05	BDL	
29	Vanadium as V	mg/L	0.2	0.006	
INFERENCE		Non Conforms to prescribed standards with respect to Ammonical Nitrogen as N, Total Kjeldhal Nitrogen, Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand, Fluoride as F, Nitrate Nitrogen as NO ₃ , and Bio-Assay			

- 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 15 days from the date of issue of report.
 4. BDL: Below Detection Level in mg/L

Free Ammonia as NH₃:1.0; Hexavalent Chromium as Cr+6:0.05; Cyanide as CN:0.03; Selenium as Se:0.018;
 Phenolic Compounds as C₆H₅OH:0.1; Lead as Pb:0.2; Cadmium as Cd:0.03; Arsenic as As:0.003;

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

Dr. B.M. Sreedhara Nayaka
 Authorized Signatory (Chemical)
 (Dr. B.M. Sreedhara Nayaka)
 Scientific Officer



TC-5487



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-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

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Email: centralab@kspcb.gov.in
Website: kspcb.karnataka.gov.in
ಕ.ರಾ.ಪಾಲ.ನಿ.ಬಂ., "ನಿಸರ್ಗ ಭವನ",
7 ನೇ 'ಅ' ಅಡ್ಡರಸ್ತೆ, ತಿಮ್ಮನಾಹಳ್ಳಿ ರಸ್ತೆ,
ಕವನಗಿರ. ಬೆಂಗಳೂರು-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 03.01.2024

NAME OF THE LOCATION :	Storm water drain located adjacent to M/s. Provident Wood Layout, Kachanayakanahalli, Anekal Taluk, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 30.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2108
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2108

Sl No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	1	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	7.2	IS 3025 (Part 11): 2022
4	Total Suspended Solids	mg/L	100	24	IS 3025 (Part 17): 2012
5	Ammonical Nitrogen as N	mg/L	50	25	IS 3025(Part 34): 2019
6	Total Kjeldhal Nitrogen	mg/L	100	33	IS 3025 (Part 34): 2019
7	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D): 2017
8	Biological Oxygen Demand @ 5 for 3 days	mg/L	30	156	IS 3025 (Part 44): 2019
9	Chemical Oxygen Demand	mg/L	250	512	IS 3025 (Part 58): 2017
10	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
11	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
12	Fluoride as F	mg/L	2.0	0.3	IS 3025 (Part 60): 2019
13	Dissolved (Ortho) Phosphate as P	mg/L	5.0	3.0	IS 3025 (Part 31): 2019
14	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
15	Nitrate Nitrogen as NO ₃	mg/L	10	60	IS 3025 (Part 34): 2019
16	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019

P.T.O

NAME OF THE LOCATION :	Storm water drain located adjacent to M/s. Provident Wood Layout, Kachanayakanahalli, Anekal Taluk, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 30.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2108
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2108

Sl No	Parameters	Unit	Standard	Result	Test Method
17	Bio-Assay	% of survival	90% survival of fish after 96 hours in 100% effluent	0% survival of fishes in 2 hours of effluent	IS 6582: 2019
18	Fecal coliform	MPN/100ml	-	6300	APHA 23 rd edition (9221 E): 2017
19	Copper as Cu	mg/L	3.0	BDL	IS 3025 (Part 42): 2019
20	Lead as Pb	mg/L	0.1	BDL	IS 3025 (Part 47): 2019
21	Zinc as Zn	mg/L	5.0	BDL	IS 3025 (Part 49): 2019
22	Nickel as Ni	mg/L	3.0	BDL	IS 3025 (Part 54): 2019
23	Iron as Fe	mg/L	3.0	BDL	IS 3025 (Part 53): 2019
24	Manganese as Mn	mg/L	2.0	BDL	APHA 23 rd Edition (3111B): 2017
25	Cadmium as Cd	mg/L	2.0	BDL	IS 3025 (Part 41): 2019
26	Total Chromium	mg/L	2.0	BDL	IS 3025 (Part 52): 2019
27	Arsenic as As	mg/L	0.2	BDL	APHA 23 rd Edition (3125B): 2017
28	Selenium as Se	mg/L	0.05	BDL	
29	Vanadium as V	mg/L	0.2	BDL	
INFERENCE		Non Conforms to prescribed standards with respect to Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand, Nitrate Nitrogen as NO ₃ , and Bio-Assay			

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 15 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L

Free Ammonia as NH₃:1.0;Hexavalent Chromium as Cr+6:0.05;Cyanide as CN:0.03;Nickel as Ni:0.1;

Phenolic Compounds as C₆H₅OH:0.1;Lead as Pb:0.2;Cadmium as Cd:0.03;Total Chromium:0.2;Iron as Fe:0.2;

Arsenic as As:0.003; Selenium as Se:0.018;Vanadium as V:0.005;Copper as Cu:0.05;Zinc as Zn:0.04;

Manganese as Mn:0.04;

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

Dr. B.M. Sreedhara Nayaka
Authorized Signatory (Chemical)
(Dr. B.M. Sreedhara Nayaka)
Scientific Officer



TC-5487



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

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ಕರ್ನಾಟಕ ಸರ್ಕಾರ, "ನಿಸರ್ಗ ಭವನ",
7 ನೇ 'D' ಅಡ್ಡರಸ್ತೆ, ತಿಮ್ಮನಾಹ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-560079
K.S.P.C.B., "Nisarga Bhavana"
7th D Cross, Thimmiah Road,
Shivanagar, Bengaluru-560079

ANALYSIS REPORT (ACCREDITED PARAMETERS)

Date: 03.01.2024

NAME OF THE LOCATION :	Storm water drain located adjacent to Highway-7, Near Keerthana Apartment, Chandapura, Anekal Taluk, Bengaluru Urban District.	Page 1 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 30.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2109
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2109

Sl No	Parameters	Unit	Standard	Result	Test Method
1	Colour	Hazen unit/CU	-	1	IS 3025(Part 4): 2021
2	Odour	-	-	Disagreeable	IS 3025(Part 5): 2018
3	pH	-	5.5 to 9.0	7.5	IS 3025 (Part 11): 2022
4	Total Suspended Solids	mg/L	100	26	IS 3025 (Part 17): 2012
5	Ammonical Nitrogen as N	mg/L	50	35	IS 3025(Part 34): 2019
6	Total Kjeldhal Nitrogen	mg/L	100	47	IS 3025 (Part 34): 2019
7	Free Ammonia as NH ₃	mg/L	5.0	BDL	APHA 23 rd edition (4500 NH3-D): 2017
8	Chemical Oxygen Demand @ 20°C for 3 days	mg/L	30	75	IS 3025 (Part 44): 2019
9	Chemical Oxygen Demand	mg/L	250	248	IS 3025 (Part 58): 2017
10	Hexavalent Chromium as Cr ⁺⁶	mg/L	0.1	BDL	APHA 23 rd edition (3500-Cr -B): 2017
11	Cyanide as CN	mg/L	0.2	BDL	IS 3025(Part 27): 2021
12	Fluoride as F	mg/L	2.0	0.5	IS 3025 (Part 60): 2019
13	Dissolved (Ortho) Phosphate as P	mg/L	5.0	2.0	IS 3025 (Part 31): 2019
14	Sulphide as S	mg/L	2.0	BDL	APHA 23 rd edition (4500-S2- F): 2017
15	Nitrate Nitrogen as NO ₃	mg/L	10	45	IS 3025 (Part 34): 2019
16	Phenolic Compounds as C ₆ H ₅ OH	mg/L	1.0	BDL	IS 3025 (Part 43): 2019

P.T.O

NAME OF THE LOCATION :	Storm water drain located adjacent to Highway-7, Near Keerthana Apartment, Chandapura, Anekal Taluk, Bengaluru Urban District.	Page 2 of 2
SAMPLE COLLECTED BY :	Dr. H. R. Puttaraju, EO RO: Sarjapura	DATE OF COMMENCEMENT OF TEST : 06.12.2023
DATE OF COLLECTION :	05.12.2023	DATE OF COMPLETION OF TEST : 30.12.2023
DATE OF RECEIPT :	06.12.2023	SAMPLE REPORT NO: WW-2109
PARTICULARS:	Water collected from the storm water drain	SAMPLE NO : WW-2109

Sl No	Parameters	Unit	Standard	Result	Test Method
17	Bio-Assay	% of survival	90% survival of fish after 96 hours in 100% effluent	0% survival of fishes in 2 hours of effluent	IS 6582: 2019
18	Fecal coliform	MPN/100ml	-	120000000	APHA 23 rd edition (9221 E): 2017
19	Copper as Cu	mg/L	3.0	BDL	IS 3025 (Part 42): 2019
20	Lead as Pb	mg/L	0.1	BDL	IS 3025 (Part 47): 2019
21	Zinc as Zn	mg/L	5.0	BDL	IS 3025 (Part 49): 2019
22	Nickel as Ni	mg/L	3.0	BDL	IS 3025 (Part 54): 2019
23	Iron as Fe	mg/L	3.0	BDL	IS 3025 (Part 53): 2019
24	Manganese as Mn	mg/L	2.0	0.092	APHA 23 rd Edition (3111B): 2017
25	Cadmium as Cd	mg/L	2.0	BDL	IS 3025 (Part 41): 2019
26	Total Chromium	mg/L	2.0	BDL	IS 3025 (Part 52): 2019
27	Arsenic as As	mg/L	0.2	BDL	APHA 23 rd Edition (3125B): 2017
28	Selenium as Se	mg/L	0.05	BDL	
29	Vanadium as V	mg/L	0.2	BDL	
INFERENCE		Non Conforms to prescribed standards with respect to Biochemical Oxygen Demand @ 27°C for 3 days, Chemical Oxygen Demand, Nitrate Nitrogen as NO ₃ and Bio-Assay			

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 15 days from the date of issue of report.

4. BDL: Below Detection Level in mg/L

Free Ammonia as NH₃:1.0;Hexavalent Chromium as Cr+6:0.05;Cyanide as CN:0.03;Nickel as Ni:0.1; Iron as Fe:0.2;

Phenolic Compounds as C₆H₅OH:0.1;Lead as Pb:0.2;Cadmium as Cd:0.03;Total Chromium:0.2;Zinc as Zn:0.04;

Arsenic as As:0.003; Selenium as Se:0.018;Vanadium as V:0.005;Copper as Cu:0.05;

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

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080-25581383, 25589112
 080-25589113, 25589114

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

// BY REGD. POST WITH ACK. DUE//

NO. PCB/58/INFRA/22/2023-24/ 3913

DATE: 16 OCT 2023

REVISED WORK ORDER BY DE-SCOPING THE WORK

✓ To,

M/s. AECOM INDIA PVT LTD
 Prestige Delta, 4th Floor,
 No.74, St. Mark's Road,
 Bengaluru- 560 001

Sir,

Sub: Issue of revised Work Order by de-scoping the work to carryout environmental audit of 62 No. of industries instead of 144 Large red category industries located in the catchment area of Chandapura lake and within the of the catchment area of Chandapura lake reg.,

Ref: 1. This Office Notification No. 7726, Dated: 16.02.2023.
 2. Proceedings of Tender Committee held on dated: 13.03.2023.
 3. Work Order No. PCB/58/INFRA/2022-23/8622 Dated 28-03-2023
 4. Details submitted by the Regional Officers of RO-Anekal and RO-Sarjapura
 5. Meeting notice No. PCB/58/INFRA/22/2023-24/1775 Dated 05-07-2023
 6. AECOM India Pvt. Ltd., letter No. AECOM/ENV-BLR/2023/02 dated 13-07-2023

In continuation to the Work Order issued by the Board cited under ref (3), wherein the Board has awarded the work for your company to carryout environmental audit of 144 Large Red Category industries located within the catchment area of Chandapura Lake. Further, the Regional Office-Sarjapura and Regional Office-Anekal have submitted list of Large Red category industries located within the catchment area of Chandapura Lake and as per the list there are only 60 Large Red and 02 Medium Red category industries existing within the catchment area of Chandapura Lake. Therefore, only 62 industries require environmental auditing. In view of this, a meeting was convened on 10-07-2023 chaired by the Member Secretary wherein, issues pertaining to de-scoping of the work in respect of reducing the number of industries from 144 to 62 nos. and reducing the project cost from Rs.56,39,220/- to Rs.24,27,998/- based on the pro-rata were discussed in detail in the presence of representatives of M/s AECOM India Pvt. Ltd., and the company representatives took 3 days of time for submission of their consent to the issues pertaining to de-scoping of project work and accordingly the company submitted letter dated 13-07-2023 wherein agreed for the de-scoping and proportionate change in the project cost based on pro-rata basis to carryout environmental auditing for reduced number of industries and requested for issue of revised work order.

In the light of the above all, you can carry out Environmental Audit only for 62 Red category industries (60 Large Red and 02 Medium Red) enclosed as Annexure to this Revised Work Order.

Tender amount for 144 Industries = Rs.56,39,220/-

As per pro-rata, the tender amount per industry =Rs.56,39,220.00/144
= Rs.39,161.25

Hence for 62 Red industries= Rs.39,161.25 x 62 = **Rs.24,27,998.00**

In view of the above, we are pleased to inform you to carryout environmental audit of 62 Red category industries (60 Large Red and 02 Medium Red) located within the catchment area of Chandapura lake as per the list given in Annexure-1 enclosed herewith and the total cost of work has been reduced to Rs.24,27,998/- from Rs.56,39,220/- on pro-rata basis.

Further, the other terms and conditions mentioned in the previous Work order cited under ref (3) pertaining to scope of work remains same as unchanged

The time stipulated for the above work is 6 months from the date of receipt of this work order. Further you are informed to deposit FSD of Rs.1,21,400/- (Rupees One Lak Twenty One Thousand and Four Hundred only) against previously informed Rs.2,82,000/- (Rupees Two Lakhs Eighty Two Thousand only) and enter into an agreement on stamp paper of Rs.200/- for having agreed to the terms and conditions laid down in the tender

**For and on behalf of the
Karnataka State Pollution Control Board**

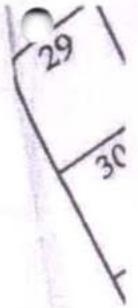
MEMBER SECRETARY

20/7
17/7

List of industries for Environmental Auditing (only LP)

Sl no.	Name And Address of the Industry	category
1	Apotex Pharmachem India Private Limited, Plot No. 1-A, Bommasandra Industrial Area, 4th Phase, Anekal Taluk, Bangalore Urban District- 560 099	L/R(17 Cat)
2	Apotex Research Private Limited, Plot No. 2, 4th Phase, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District	L/R
3	Oerlikon Balzers Coating India Limited (Formerly Known as M/s. Balzers India Limited), Plot No. 109, Bommasandra Industrial Area, 4th Phase, Anekal Taluk, Bengaluru Urban District- 560 099	L/R
4	Biocon Limited, Plot No. 2, 3, 4 & 5, Bommasandra - Jigani Link Road Industrial Area, 4th Phase, Anekal Taluk, Bangalore Urban District- 560 099	L/R(17 Cat)
5	Cipla Limited, Plot No. 285, 286, 287, KIADB, 4th Phase, Bommasandra - Jigani Link Road Industrial Area, Anekal Taluk, Bangalore Urban District- 560 099	L/R(17 Cat)
6	Stellance Pharmascience Ltd., (Formerly Karnataka Chemzyn Limited.), Plot No:456/1 A&B, Jigani Industrial Area, Anekal, Bangalore Urban District	L/R(17 Cat)
7	Micro Labs Limited, Unit - III, API Division, Plot No. 43 to 45, Bommasandra - Jigani Link Road Industrial Area, 4th Phase, Anekal Taluk, Bangalore Urban District- 560 099	L/R(17 Cat)
8	Microtrol Sterilisation Services Private Limited, Unit-II, Plot No. 14, Bommasandra - Jigani Link Road Industrial Area, 4th Phase, Anekal Taluk, Bangalore Urban District- 560 099	L/R
9	Siera Silk Mills Private Limited, Plot No. 51, Bommasandra - Jigani Link Road Industrial Area, 4th Phase, Anekal Taluk, Bangalore Urban District- 560 099	L/R
10	Sigma Aldrich Chemicals Private Limited, Plot No. 12, 4th Phase, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District- 560 099	L/R
11	Syngene International Private Limited, Plot No. 2, 3 & 4, Parts of 11, 12, 16, 17, 18, 19, 20, 21, 25, 26 & 28, Bommasandra - Jigani Link Road Industrial Area, 4th Phase, Anekal Taluk, Bangalore Urban District- 560 099	L/R
12	Taegutec India Private Limited, Plot No. 119 & 120, 4th Phase, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District- 560 099.	L/R
13	Mylan Laboratories Limited (Formerly Agila Specialities Pvt Ltd., (Formerly known as Strides Arcolab Limited), Plot No. 284-B, Bommasandra - Jigani Link Road Industrial Area, 4th Phase, Anekal Taluk, Bangalore Urban District- 560 099	L/R
14	Resil Chemicals Private Limited, Plot No. 53-57, IV Phase, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District- 560 099	L/R

15	Biocon Research Limited, Plot No. 2, Survey Nos. 61, 62, 65(P), 66(P), 67(P), 68(P), 70(P), 71(P), 72, 73(P) & 74(P), Bommasandra - Jigani Link Road Industrial Area, 4th Phase, Anekal Taluk, Bangalore Urban District - 560 099	L/R
16	Disha Retail Fixtures Private Limited, Plot No. 299 to 301 & 302, Bommasandra - Jigani Link Road, Anekal Taluk, Bengaluru Urban District - 560 099	L/R
17	Kewaunee Scientific Corporation India Private Limited, Plot No. 186, Bommasandra - Jigani Link Road Industrial Area, Anekal Taluk, Bangalore Urban District - 560 099	L/R
18	Laurus Bio Private Limited., (Formerly known as Richcore Life Science Pvt Ltd,) Plot No. 204 & 237, KIADB Indl Area, Bommasandra Jigani Link Road, Anekal Taluk, Bangalore- 560 099	L/R
19	Hikal Ltd., Unit - 2, No.28, Jigani Industrial Area, Anekal Taluk, Bangalore Urban District - 562106,	L/R(17 Cat)
20	Aron Universal Private Limited, Survey No: 25/1, Jigani Industrial Area, 2nd Phase, Anekal Taluk, Bengaluru Urban District - 560105	L/R
21	Nexteer Automotive India Pvt Ltd, (Delphi Automotive System Private Limited,); Plot NO:98-A, Phase-2, KIADB Industrial Area, Jigani, Anekal Taluk, Bangalore Urban District - 562 106	L/R
22	CDY Max India Farma Pvt Ltd, Unit - II (Formerly known as Acebright India Pharma Pvt Ltd.), Plot NO:116/117, Jigani Industrial Area, Anekal Taluk, Bangalore Urban District - 562 106	L/R(17 Cat)
23	Toyota Industries Engine (I) Pvt Limited (Formerly known as Kirloskar Toyota Textile Machinery Private Limited), (TIEI) Plot NO: 9, Jigani Industrial Area, Anekal Taluk, Bangalore Urban District - 562 106	L/R
24	Kumar Organic Products Private Limited, ; Plot NO:62, Road NO:3 & 5, Jigani Industrial Area, Anekal Taluk, Bangalore Urban District - 560105	L/R(17 Cat)
25	Micropack Limited,; Plot NO:16, Sy No. 122, 134 & 135, Jigani Industrial Area, Anekal Taluk, Bangalore Urban District - 562 106	L/R
26	Balmer Lawrie - Van Leer Limited (formerly known as Proseal Closures Limited) Plot NO:51, 52 & 74, Road No.3, Jigani Industrial Area, Anekal Taluk, Bangalore Urban District - 562 106	L/R
27	Hikal Ltd., Unit - 1, Plot no 82/A,83-P,83- P1 & 72 KIADB Jigani Industrial area, Anekal Taluk, Bangalore Urban District -562.106	L/R(17 Cat)
28	Kumar Organic Products Limited ; Plot No.60/65, Road No.3, Jigani Industrial Area, Anekal, Bangalore Urban - 562106,	L/R(17 Cat)



29	Solidus Hi-Tech Products, ; Plot No.33, Jigani Indl Area,Phase-1 Anekal Taluk, Bengaluru Urban District - 560 099	L/R
30	Veer-O-Metals Pvt ltd, ; Plot No 87-A, Jigani 1st Phase, Indl Area, Jigani Hobli, Anekal TQ, Bangalore	L/R
31	I Deal Design & Display India Pvt Limited, Plot No. 7, 2nd Phase, Jigani Industrial Area, Jigani, Anekal Taluk, Bengaluru Urban District - 560 099	L/R
32	Stellis Biopharma Limited (Formerly Inbiopro Solutions Private Limited), (A division of Strides Arcolab Limited), Plot No. 293, Bommasandra Jigani Link Road, Jigani Industrial Area, Anekal Taluk, Bangalore	L/R
33	Huhtamaki PPL Limited, (Formerly Positive Pakaging Industries Ltd) Plot No. 152, 153 & 33, Bommasandra Jigani Link Road, Industrial Area, Anekal Taluk, Bangalore - 562 106	L/R
34	Vidya Herbs Private Limited, R & D unit, No. 14-A, 1st Phase, Jignai Industrial Are, Anekal Taluk, Bengaluru Urban District - 560 105	L/R
35	Krueger International Furniture Systems Private Limited., Plot No. 55, Bommasandra - Jigani Link Road, Industrial Area, Anekal Taluk, Bengaluru	L/R
36	Aragen Life Sciences Private Limited (Formerly known as GVK Bio- Science Pvt Ltd.), Plot No. 284-A, Bommasandra Jigani Link Road, Bommasandra Industrial Area, 4th Phase, Anekal Taluk, Bangalore Dist	L/R
37	Kirloskar Toyota Textile Machinery Pvt Ltd , (formerly known as Toyota Industries India Private Limited,) Plot No. 10,11,12,13 , 2nd Phase, Jigani Industrial Area, Bangalore	L/R
38	Mylan Laboratories Limited, Plot No. 48, Bommasandra Jigani Link Road, Anekal Taluk, Bengaluru Urban District - 560 103	L/R
39	Biocon Biologics India Limited, (Biocon Park), Plot No. 2,3,4 & 5, Bommasandra Industrial Area, Bommasandra - Jigani Link Road, 4th Phase, Anekal Taluk, Bengaluru Urban District	L/R
40	Trellborg Industrial Productss India Private Limited, No. 163, Bommasandra Jigani Link Road, Jigani Hobli, Anekal Taluk, Bengaluru Urban District	L/R
41	Macks Surface Treatments Private Limited, No. 102, 4th Phase, Bommasandra Industrial Area, Anekal Taluk, Bengaluru Urban District - 560 099	L/R
42	Rajyalakshmi Coated Wires Private Limited, Plot No. 210, Bommasansra Industrial Area, 4th Phase, Anekal Taluk, Bangalore Urban District	LR
43	M/s. Otis Elevator Co. (I) Ltd., Plot No.92, KIADB Indl. Estate, Phase II, Jigani Indl. Area, Anekal Taluk, Jigani Hobli, Bangalore Urban District-562 106	LR
44	A.N.S. Paper Mills Pvt. Ltd., ; No.30, 1st Phase, 1st Main, Jigani Industrial Area, Anekal Taluk, Bangalore Urban - 562106,	LR
45	Saify industries (plant-3),(formerly Automax) ; Plot No.75, Jigani Indl Area, Jigani, Anekal Taluk, Bengaluru Urban District - 560 099	LR

Environmental Officer
RO Anekal

Revised Red category Industry list
RO, Sarjapura- List of Industries for Environmental Auditing

Sl. No.	Name and address of the industry generating trade effluent	Category	Status of CFO under Water Act and Air Act	Trade Effluent		Nature of effluent - Organic(High BOD etc...) / Inorganic (High TDS, Heavy metal based etc.,)	Mode of Treatment	Domestic Effluent		Disposal Mode Domestic	Working Status
				Consented Quantity of Trade effluent generation in KLD	Actual quantity of Trade effluent generated in KLD			Consented Quantity of Sewage effluent Consumption in KLD	Actual quantity of Sewage effluent generated in KLD		
1	Bal Pharma Limited, Unit-II, Plot No. 61-B, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District- 560 099	LR- 17 Category	30.06.2026	0.8	0.8	Inorganic	ETP (5 KLD)	0.5	0.4	ST & SP	Working
2	Anthem Biosciences Private Limited, Plot No. 49, Bommasandra Industrial Area, II Phase, Anekal Taluk, Bangalore Urban District- 560 099	LR- 17 Category	30.06.2026	19	17	Inorganic	ZLD	22	17.6	Combined ETP	working
3	Biocor Ltd , No. 46/1,2,3,43/6A, 47/4, 2, Hebbagodi Village, 20th KM, Hosur Road, Hebbagodi, Anekal Taluk, Bengaluru 560099	LR- 17 Category	30.06.2026	442	409	Inorganic	Combined ETP	115	95	STP- 150 KLD	Working
4	M/s Steis Biopharma Private Limited Unit- 3,Plot No. 68/A of Bommasandra Industrial Area, Anekal Taluk, Bengaluru Urban District 560 099	LR- 17 Category	30.06.2026	386	150	Inorganic	ETP- 250 KLD and MEE (25 KLD)	22	17.6	STP (Cap 25 KLD).	Working
5	Natural Remedies Private Limited, Plot No:5 A& B, Veerasandra Anekal Taluk, Bengaluru Urban District 560100	LR	30.06.2026	0.8	0.5	Inorganic	ETP- 5 KLD	0.8	0.4	ST & SP	Working
6	M/s. Mahindra CIE Automotive Ltd. (Previously Bill Forge Private Limited,) No- 9C, Bommasandra Industrial Area, Hosur Road, Anekal Taluk, Bengaluru Urban District -560 099.	LR	30.06.2026	15	30	Inorganic	CETP- Govinda solvent & ETP 50 kld	15	24	STP - 30 KLD	Working
7	DIC India Limited, Plot No. 66-A, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District 560099	LR	30.06.2026	4.38	2.7	Inorganic	ETP- 25 KLD (CETP of M/s Bangalore Eco Park)	17.5	2.2	ST & SP	Working
8	Avasarala Technologies Limited, (Formerly Known as M/s. Elbeam Devices Limited), Strategic Products Division, Plot No. 61-A, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District	MR	30.06.2026	1.41	0.01	Inorganic	CETP- Eco Green solutain	1.75	1.4	ST & SP	Working
9	Militech Machinery Private Limited, Plot No. 51/A, KIADB Industrial Area, I Phase, Bommasandra, Anekal Taluk, Bangalore Urban District- 560 099	LR	30.06.2026	10	28	Inorganic	ETP 5 KLD followed by RO (Reject disposed to CETP)	22.5	10	ST & SP	Working

10	M/s IFB Industries Ltd(Previously M/s Ramsons-Garment Finishing Equipment Pvt Ltd), Plot No. 3B & C, Bommasandra Industrial Area, Attibele Hobli, Anekal Taluk, Hosur Road, Bangalore-560 099	LR	30.06.2026	0.03	4	Inorganic	ETP -16 KLD	3.2	0.03	ST & SP	Working
11	Stumpp Schuele & Somappa Auto Suspension System Private Limited, Plot No. 4, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District- 560 099	LR	30.06.2026	2	2	Inorganic	ETP- 5 KLD	38	30	ST & SP	Working
12	Supangita Engineers Private Limited, Unit - I, Plot No. 7-C, Bommasandra Industrial Area, II Phase, Anekal Taluk, Bangalore Urban District- 560 099	MR	30.06.2027	2	2	Inorganic	ETP 5 KLD followed by RO (Reject disposed to CETP)	3.88	2	ST & SP	Working
13	Elinis Switch Boards Pvt.Ltd, [Previously known as Venus Controls & Switchgear Private Limited] Plot No. 65/A1, III Cross, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District - 560099	LR	30.06.2026	16	16	Inorganic	ETP -16 KLD	12	9.6	STP of capacity 12 KLD	Working
14	Metal Impacts Pvt Ltd, Unit-VI, Sy No.109, 2nd Phase, Bommasandra Industrial Area, Bangalore	LR	30.06.2026	4.25	3.75	Inorganic	ETP- 10 KLD	1.25	1	ST & SP	Working
15	Valspar (India) Coatings Corporation Pvt.Ltd, Plot No. 66-B & 67, Bommasandra Industrial Area, Hosur Road, Anekal Taluk, Bangalore Urban District	LR	30.06.2026	30	4.1	Inorganic	Combined ETP 11 KLD	8.4	6.4	Combined ETP 11 KLD	Working
16	Stumpp Schuele & Somappa Springs Private Limited, Plot No. 4, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District- 560 099	LR	30.06.2026	3.5	3.5	Inorganic	ETP- 5 KLD	14	12	ST & SP	Working
17	Ausa Medical Devices Pvt Ltd (Formerly known as Cannula Plus India Pvt Ltd) Pl.No. 15B, Bommasandra Industrial Area, Attibele Hobli, Anekal Taluk, Bengaluru	LR	30.06.2025	5.5	4	Inorganic	ETP -9 KLD	22	18	STP- 50 kld	Working

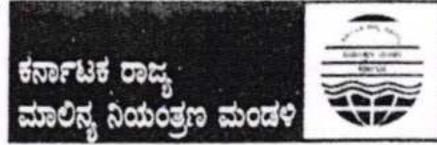

 Environmental Officer,
 RO- Sarjapura (Bengaluru)

Karnataka State Pollution Control Board

Regional Office : Sarjapura

"Nisarga Bhavan" 3rd Floor, Thimmaiah Road,
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Telephone : 080-23230153
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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ : ಸರ್ಜಾಪುರ
"ನಿರ್ಗ ಭವನ" 3ನೇ ಮಹಡಿ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
7ನೇ 'ಡಿ' ಮುಖ್ಯರಸ್ತೆ, ಶಿವನಗರ,
ಬೆಂಗಳೂರು-560 010. ದೂರ : 080-23230153
ಇ-ಮೇಲ್ : sarjapura@kspcb.gov.in



towards a cleaner Karnataka

ಸಂಖ್ಯೆ ಕರಾಸೂಸಿಮ/ವ್ಯಾ.ಕ.ಸರ್ಜಾಪುರ/2023-24/
ಇವಲೆಂ.

//By RPAD//

ದಿನಾಂಕ:

19 JAN 2024

The Commissioner City Municipal Council - Hebbagodi Hebbagodi, Attibele Hobli, Anekal Taluk, Bengaluru Urban District- 560099	The Chief Officer Town Municipal Council - Chandapura, Chandapura, Attibele Hobli, Anekal Taluk, Bengaluru Urban District- 560099
The Chief Officer Town Municipal Council - Bommasandra, Bommasandra, Attibele Hobli, Anekal Taluk, Bengaluru Urban District- 560099	

ಮಾನ್ಯರೇ,

ಬಿಡುಗಡೆ: ತಮ್ಮ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಮಳೆ ನೀರು ಕಾಲುವೆಗಳಲ್ಲಿ (Storm water drain) ಹಲಯುವ ಸೂಕ್ಷ್ಮಜೀವಿಗಳು (E-Coli) ಇರುವುದರ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖ: 1. ಈ ಕಛೇರಿವತಿಯಿಂದ ಮಳೆ ನೀರು ಕಾಲುವೆಗಳಲ್ಲಿ (Storm water drain) ಸೂಕ್ಷ್ಮಜೀವಿಗಳ ಸಂರಕ್ಷಣೆ

2. ನೀರು ಕಾಲುವೆಗಳಲ್ಲಿ (Storm water drain) ಸೂಕ್ಷ್ಮಜೀವಿಗಳ ಬಿಡುಗಡೆ ವರದಿಗಳು

ಮೇಲ್ಕಂಡ ಬಿಡುಗಡೆ ಹಾಗೂ ಉಲ್ಲೇಖಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಈ ಮೂಲಕ ತಿಳಿಸುವುದೇನೆಂದರೆ, ತಮ್ಮ ಕಾರ್ಯ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಈ ಕೆಳಕಂಡ ಮಳೆ ನೀರು ಕಾಲುವೆ (Storm water drain)ಗಳಲ್ಲಿ ಹಲಯುವ ಸೂಕ್ಷ್ಮಜೀವಿಗಳನ್ನು ಕೆಳಲಿನ ಕೋಷ್ಟಕದಲ್ಲಿ ತಿಳಿಸಿರುವ ಸ್ಥಳ ಮತ್ತು ದಿನಾಂಕದಂದು ಈ ಕಛೇರಿವತಿಯಿಂದ ಸಂರಕ್ಷಿಸಿ, ಬಿಡುಗಡೆಗಾಗಿ ಮಂಡಳಿಯ ಕೇಂದ್ರ ಪ್ರಯೋಗಾಲಯಕ್ಕೆ ಸಲ್ಲಿಸಲಾಗುತ್ತದೆ.

ಕ್ರಮ ಸಂಖ್ಯೆ	ಸೂಕ್ಷ್ಮಜೀವಿಗಳನ್ನು ಸಂರಕ್ಷಿಸಿದ ಸ್ಥಳ	ದಿನಾಂಕ	ಸ್ಥಳೀಯ ಸಂಸ್ಥೆಯ ವ್ಯಾಪ್ತಿ
1	Drain near passing adjacent to proposed Brigade Residential apartment	18.05.2023 & 16.11.2023	ಚಂದಾಪುರ
2	Drain near located at Panduranga temple Heelalige	18.05.2023 & 05.12.2023	
3	Diversions canal near Cholarakatte	18.05.2023	
4	Drain near Kithaganahalli Lake	16.11.2023	ಬೊಮ್ಮಸಂದ್ರ
5	Drain Near Gopalan gardenia apartment, Veerasandra	18.11.2023 & 05.12.2023	ಹೆಬ್ಬಾಗಿಲಿ
6	Drain Near Hebbagodi Police station	18.11.2023	ಹೆಬ್ಬಾಗಿಲಿ
7	Drain near precision granite and marble	05.12.2023	ಬೊಮ್ಮಸಂದ್ರ
8	Drain near Bharath Silk	05.12.2023	ಬೊಮ್ಮಸಂದ್ರ
9	Drain near Provident wood layout (Kachanayakanahalli) entry point to Boamasandra jurisdiction	05.12.2023	
10	Drain Near Keerthana apartment	05.12.2023	ಚಂದಾಪುರ
11	Drain near Vinayaka Wines	05.12.2023	ಹೆಬ್ಬಾಗಿಲಿ

ಸದರಿ ಸೂಕ್ಷ್ಮಜೀವಿಗಳ ಬಿಡುಗಡೆ ವರದಿಗಳನ್ನು ಉಲ್ಲೇಖ(2)ರಲ್ಲಿ ಈ ಕಛೇರಿಯಲ್ಲಿ ಸ್ವೀಕೃತವಾಗಿದ್ದು, ಬಿಡುಗಡೆ ವರದಿಗಳನ್ನು ಪರಿಶೀಲಿಸಿದಾಗ, ಮಳೆ ನೀರು ಹಲಯುವ ಕಾಲುವೆಗಳಲ್ಲಿ ಸೂಕ್ಷ್ಮಜೀವಿ (E-Coli) ಇರುವುದು ಖಚಿತವಾಗಿರುತ್ತದೆ. ಬಿಡುಗಡೆ ವರದಿಗಳ ಪ್ರತಿಗಳನ್ನು ತಮ್ಮ ಮಾಹಿತಿಗಾಗಿ ಲಗತ್ತಿಸಲಾಗಿದೆ.

ಸೂಕ್ಷ್ಮಜೀವಿಗಳ ಬಿಡುಗಡೆ (E-Coli) ಇರುವುದು ತಮ್ಮ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಉತ್ಪತ್ತಿಯಾಗುವ ಗೃಹ ತ್ಯಾಜ್ಯ ನೀರು ಮಳೆ ನೀರು ಕಾಲುವೆಗಳನ್ನು ಸೇರುತ್ತಿರುವುದನ್ನು ಸೂಚಿಸುತ್ತದೆ. ಇಂತಹ ನೀರು ಚಂದಾಪುರ ಕಿರಿಯನ್ನು ಸೇರಿ ಕಿರಿಯ ಮಾಲಿನ್ಯಕ್ಕೆ ಕಾರಣವಾಗಿರುತ್ತದೆ. ಇದಲ್ಲದೇ ಅಂತರಜಲ ಸೇರಿ, ಕೊಳವೆ ಬಾವಿಗಳ ಸೂಕ್ಷ್ಮಜೀವಿಗಳ ಸಹ ಕಾರಣವಾಗಿರುವ ಸಂದರ್ಭವಿರುತ್ತದೆ.

ಮುಂದುವರಿದಂತೆ, ಮಳೆ ನೀರಿನ ಕಾಲುಬೆರಗು ಮಳೆ ನೀರು ಮಾತ್ರ ಹರಿಯಬೇಕಾಗಿದ್ದು, ಅದರ ಸದಲ ಕಾಲುಬೆರಗು ಗೃಹ ತ್ಯಾಜ್ಯ ಹರಿಯುತ್ತಿರುವುದರಿಂದ ನೀರಿನಲ್ಲಿ ಸೂಕ್ಷ್ಮಜೀವಿ (E-Coli) ಇರುವುದು ಕಂಡು ಬಂದಿರುತ್ತದೆ. ಇದಕ್ಕೆ ತಮ್ಮ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಉತ್ಪತ್ತಿಯಾಗುವ ಗೃಹ ತ್ಯಾಜ್ಯ ನೀರನ್ನು ಸಂಸ್ಥಾನ ಸೂತ್ರ ಒಳಕಂಡಿ ವ್ಯವಸ್ಥೆ ಮತ್ತು ಗೃಹ ತ್ಯಾಜ್ಯ ನೀರು ಸಂಸ್ಕರಣಾ ಘಟಕ ಇಲ್ಲದೇ ಇರುವುದು ಮುಖ್ಯ ಕಾರಣವಾಗುತ್ತದೆ. ಈ ವಿಚಾರವಾಗಿ ಮಂಡಳಿಯಿಂದ ಹಲವಾರು ಬಾರಿ ನೋಟಿಸ್ ನೀಡಿದ್ದು, ತಾವುಗಳು ತಮ್ಮ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಉತ್ಪತ್ತಿಯಾಗುವ ಗೃಹ ತ್ಯಾಜ್ಯ (ದೊಡ್ಡ ನೀರು) ನೀರನ್ನು ಸಂಸ್ಥಾನ ಸೂತ್ರ, ತ್ಯಾಜ್ಯ ನೀರು ಸಂಸ್ಕರಣಾ ಘಟಕವನ್ನು ನಿರ್ಮಿಸಿರುವುದಿಲ್ಲ ಮತ್ತು ತಾವುಗಳು ಈ ವಿಷಯ ಕುರಿತು ಕೈಗೊಂಡಿರುವ ಕ್ರಮದ ವಿವರವನ್ನು ಮಂಡಳಿಗೆ ಸಲ್ಲಿಸಿರುವುದಿಲ್ಲ.

ಸದಲ ವಿಷಯವು ಅತ್ಯಂತ ಗಂಭೀರ ವಿಷಯವಾಗಿದ್ದು, ಗೃಹ ತ್ಯಾಜ್ಯ ನೀರು ಮಳೆ ನೀರು ಕಾಲುಬೆರಗನ್ನು ನೀರುವುದನ್ನು ತಡೆಗಟ್ಟಲು ತಕ್ಷಣವೇ ಸೂತ್ರ ಕ್ರಮ ಕೈಗೊಳ್ಳಲು ತಿಳಿಸಲಾಗಿದೆ. ತದ್ವಿರುತ್ತ ತಮ್ಮ ಬಿರುದ್ದ ಜಲ ಕಾಯ್ದೆ, 1974ರ ಅಡಿಯಲ್ಲಿ ಕಾನೂನು ಕ್ರಮ ಕೈಗೊಳ್ಳಲು ಮಂಡಳಿಗೆ ತಿಳಿಸುವುದು ಮೂಲವಾಗುವುದು. ಈ ವಿಚಾರವಾಗಿ ತಾವು ಕೈಗೊಂಡ ಕ್ರಮದ ವಿವರವನ್ನು ಈ ಪತ್ರ ತಲುಪಿದ 7 ದಿನಗಳ ಒಳಗೆ ದಾಖಲೆಗಳೊಂದಿಗೆ ಈ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಲು ತಿಳಿಸಲಾಗಿದೆ.

ತಮ್ಮ ಬಿಲ್ಟಿಸಿ,

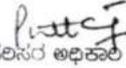
ಸಹಿ/-

ಪಲಿಸರ ಅಧಿಕಾರಿ

ವ್ರಾ.ಕ. ಸರ್ಜಾಪುರ, ಬೆಂಗಳೂರು.

ಪ್ರತಿಗಳನ್ನು:

1. ಮಾನ್ಯ ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು, ಬೆಂಗಳೂರು ನಗರ ಜಿಲ್ಲೆ, ಕಂದಾಯ ಭವನ, ಕೆಂಪೆಗೌಡ ರಸ್ತೆ, ಬೆಂಗಳೂರು -560009 ಇವರ ಮಾಹಿತಿಗಾಗಿ ಹಾಗೂ ಈ ವಿಷಯ ಕುರಿತು ಕ್ರಮ ಕೈಗೊಳ್ಳಲು ಸಂಬಂಧಪಟ್ಟ ಇಲಾಖೆಗೆ ಸೂತ್ರ ನಿರ್ದೇಶನ ನೀಡಬೇಕೆಂದು ಕೋರಲಾಗಿದೆ.
2. ಸದಸ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು (ಹಿರಿಯ ಪಲಿಸರ ಅಧಿಕಾರಿಗಳು, ಮೂಲಭೂತ ಸೌಕರ್ಯ ಮತ್ತು ಕೆರೆ ಅಭಿವೃದ್ಧಿ), ನಂ. 49, ಪರ್ಬ್ ಸ್ಟೀಟ್, ಪಲಿಸರ ಭವನ, ಬೆಂಗಳೂರು ಇವರ ಮಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಲಾಗಿದೆ ಹಾಗೂ ಸಂಬಂಧಪಟ್ಟ ಇಲಾಖೆಗೆ ಸೂತ್ರ ನಿರ್ದೇಶನ ನೀಡಬೇಕೆಂದು ಕೋರಲಾಗಿದೆ.
3. ಹಿರಿಯ ಪಲಿಸರ ಅಧಿಕಾರಿಗಳು, ಬೆಂಗಳೂರು-ದಕ್ಷಿಣ, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ, 3ನೇ ಮಹಡಿ, ನಿಸರ್ಗಭವನ, ಬೆಂಗಳೂರು - 560010 ಇವರ ಮಾಹಿತಿಗಾಗಿ ಹಾಗೂ ಈ ವಿಷಯ ಕುರಿತು ಕ್ರಮ ಕೈಗೊಳ್ಳಲು ಸಂಬಂಧಪಟ್ಟ ಇಲಾಖೆಗೆ ಸೂತ್ರ ನಿರ್ದೇಶನ ನೀಡಬೇಕೆಂದು ಕೋರಲಾಗಿದೆ.
4. ಯೋಜನಾ ನಿರ್ದೇಶಕರು, ನಗರಾಭಿವೃದ್ಧಿ ಕೋಶ, ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು ಕಛೇರಿ, ಬೆಂಗಳೂರು ನಗರ ಜಿಲ್ಲೆ, ಕಂದಾಯ ಭವನ, ಕೆಂಪೆಗೌಡ ರಸ್ತೆ, ಬೆಂಗಳೂರು -560009 ಇವರ ಮಾಹಿತಿಗಾಗಿ ಹಾಗೂ ಈ ವಿಷಯ ಕುರಿತು ಕ್ರಮ ಕೈಗೊಳ್ಳಲು ಸಂಬಂಧಪಟ್ಟ ಅಧಿಕಾರಿಗಳಿಗೆ ಸೂತ್ರ ನಿರ್ದೇಶನ ನೀಡಬೇಕೆಂದು ಕೋರಲಾಗಿದೆ.
5. ತಹಶೀಲ್ದಾರ್, ಅನೇಕಲ್ ತಾಲ್ಲೂಕ್, ಬಿನಾಯಕ ನಗರ, ಅನೇಕಲ್, ಬೆಂಗಳೂರು ನಗರ ಜಿಲ್ಲೆ - 562106 ಇವರ ಮಾಹಿತಿಗಾಗಿ ಹಾಗೂ ಈ ವಿಷಯ ಕುರಿತು ಕ್ರಮ ಕೈಗೊಳ್ಳಲು ಸಂಬಂಧಪಟ್ಟ ಇಲಾಖೆಗೆ ಸೂತ್ರ ನಿರ್ದೇಶನ ನೀಡಬೇಕೆಂದು ಕೋರಲಾಗಿದೆ.
6. ಕಛೇರಿ ಕಡತ.



ಪಲಿಸರ ಅಧಿಕಾರಿ

ವ್ರಾ.ಕ. ಸರ್ಜಾಪುರ (ಬೆಂಗಳೂರು)

Near Translated Copy

|| By RPAD||

No: KSPCB/R.O.Sarjapura/2023-24/1405

Dated: 19.01.2024

To;

1. City Municipal Council-Hebbagodi Hebbagodi, Attibele Hobli, Anekal Taluk, Bengaluru Urban District-560099
2. The Chief Officer Town Municipal Council - Bommasandra, Bommasandra, Attibele Hobli, Anekal Taluk, Bengaluru Urban District-560099
3. The Chief Officer Town Municipal Council - Chandapura, Chandapura, Attibele Hobli, Anekal Taluk, Bengaluru Urban District-560099

Respected Sir,

Subject: Regarding the presence of Micro-organisms (E-Coli) in storm water drains.

- Reference:**
1. The Collection of water samples in storm water drains by this office.
 2. Analysis report of water samples of Storm water drains.

In the above matter and reference, it is hereby informed that the following samples of flowing Water from Storm Water Drains which comes under the jurisdiction of this office was collected and submitted to the central laboratory of the board for analysis.

Sl. No.	Name of the Place of collected Water samples	Date	Concerned Office jurisdiction
1.	Drain near passing adjacent to proposed Brigade Residential apartment	18.05.2023 & 16.11.2023	Chandapura
2.	Drain near located at Panduranga temple Heelalige	18.05.2023 & 05.12.2023	
3.	Diversion canal near Cholarakatte	18.05.2023	
4.	Drain near Kithaganahalli Lake	16.11.2023	Bommasandra
5.	Drain Near Gopalan gardenia apartment, Veerasandra	16.11.2023 & 05.12.2023	Hebbagodi
6.	Drain Near Hebbagodi Police station	16.11.2023	Hebbagodi
7.	Drain near precision granite and marble	05.12.2023	Bommasandra
8.	Drain near Bharath Silk	05.12.2023	Bommasandra
9.	Drain near Provident wood layout (Kachanayakanahalli) entry point to Boammasandra jurisdiction	05.12.2023	-
10	Drain Near Keerthana apartment	05.12.2023	Chandapura
11	Drain near Vinayaka Wines	05.12.2023	Hebbagodi

The analysis reports of the said water samples have been received in this office (reference 2) and on examination of the analysis reports, the presence of microorganism (E-Coli) in the storm water drains is confirmed. Copies of analysis reports are enclosed.

The presence of E-Coli in the water samples indicate that the domestic waste water generated in the respective area is entering storm water drains. Such water joins the Chandapur lake and causes pollution of the lake. Apart from this, there is a possibility of contamination of groundwater and tube well water.

Further, only rain water should flow in the storm water drains, but due to the domestic waste being collected in the said drains, it has been found that there is the presence of microorganism (E-Coli) in the water. The main reason for this is the lack of proper drainage system and domestic waste water treatment plant to treat the domestic waste water generated in this area. In this regard, the board has given notice several times, to construct waste water treatment plant to treat the domestic waste water arising in their area. But they have not submitted the details of the action taken in this regard to the board.

This is a very serious issue and immediate action has been taken to prevent domestic waste water and rain water from entering the canals. If found guilty, the board will be recommended to take legal action against them under the Water Act, 1974. The details of the action taken in this matter have been asked to be submitted to this office along with the documents within 7 days of receipt of this letter.

Yours Faithfully,

Sd/-
Environmental Officer,
Regional Office, Sarjapura,
Bengaluru.

Government of Karnataka

Department of Treasuries

Form KTC - 31

DP009: Register of Receipts, Withdrawals and Balance

Treasury Name : BENGALURU (URBAN)

Year : 2023

Report Date : 26/12/2023

Month : December

NO	Deposit Account Number	Head of Account	Opening Balance(A)	Receipts (B)	Total (C) = A + B	Payments (C)	Closing Balance(C - D)
1	26572A200	8449-00-120-0-18-719	3000000000.00	2000000000	5000000000.00	0.00	5000000000.00

Total Number of Deposit Account Numbers : 1