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ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ: ಬೆಂಗಳೂರು – ಅನೇಕಲ್
2ನೇ ಮಹಡಿ, “ನಿಸರ್ಗ ಭವನ”,
7ನೇ ‘ಡಿ’ ಅಡ್ಡ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಸಾಣೆಗೊರವನಹಳ್ಳಿ, ಶಿವನಗರ,
ಬೆಂಗಳೂರು – 560 010
ದೂರವಾಣಿ: 080– 23229538

ಕರ್ನಾಟಕ ರಾಜ್ಯ
ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ



towards a cleaner Karnataka

No. KSPCB/RO-ANEKAL/BUJANGA.LAKE/2020-21/792

Date: 09 MAR 2021

To,

The Member Secretary,
Karnataka State Pollution Control Board,
Parisara Bhawan,
Bengaluru-1.

“Kind Attn: Law Officer, Legal Section”

Sir,

Sub: Submission of current status of Bujangadasanahalli Lake, Jigani Hobli, Anekal Tq-reg.

Ref: 1. Honorable NGT Principal Bench, New Delhi Order in Original application

No.447/2019 on 31.07.2019.

2. Interim Order issued by Honorable NGT, Principal Bench, New Delhi in Original application No.447/2019 on 30.10.2019.

3. This Office letter No.695 dated: 30.01.2021.

4. Inspection of Bujangadasanahalli Lake by AEO of this Office on 04.03.2021.

In continuation to the action taken report submitted by this Office vide above cited reference (03) pertaining to the degradation of Bujangadasanahalli Lake, Jigani Hobli, Anekal Taluk; AEO of this Office had inspected Bujangadasanahalli Lake on 04.03.2021 to ascertain the current status. Detailed inspection report is enclosed along with this letter for your kind information and further needful.

Yours faithfully

Environmental Officer

Enclosure: As above

[Handwritten signature]
09/03/2021

**INSPECTION REPORT OF BUJANGADASANA HALLI LAKE LOCATED AT
HULLAHALLI, JIGANI HOBOLI, ANEKAL TQ, BANGALORE URBA DISTRICT**

1	Name and address of the inspecting Officer	Dr. Naveen D, Assistant Environmental Officer, Anekal Regional Office, KSPCB.
2	Date of inspection	04.03.2021.
3	Reference	1. Honorable NGT, Principal Bench, New Delhi Order in OA No.447/2019, dated: 06.10.2020. 2. This Office letter No.695 dated: 30.01.2021.

Preamble:- Earlier, Sri.K Vijayakumar, Madhavi Farms, Resident of Sakalavara Village, Mantapa Panchayath, Jigani Hobli, Anekal Taluk, Bangalore Urban District has filed the allegation to the Honorable NGT, Principal Bench, New Delhi stating that there is pollution of Bujangadasanahalli Lake due to discharge of industrial and sewage effluent. Considering the allegation Honorable NGT, Principal Bench, New Delhi has ordered on 31.07.2019 as below:

“Let the State Pollution Control Board (SPCB) look into the matter, take appropriate action in accordance with law and furnish a factual and action taken report in the matter within one month by e-mail at judicial-ngt@gov.in.”

In view of the afore said facts, meeting was held at the Board Office on 17.08.2019 along with the Secretary and Chief Engineer, Department of Minor Irrigation and PDO, Mantapa Panchayath. After detailed discussion the Presiding Officer of the said meeting has directed as below:

- Encroachment of the lake, if any shall be clarified.
- The Secretary, Department of Minor Irrigation shall submit an action plan for rejuvenation of the lake within one month.
- The Regional Officer shall monitor the lake water quality and submit the report.

As per the aforesaid direction, this Office has started monitoring of the lake on monthly basis and collected first sample on 18.09.2019.

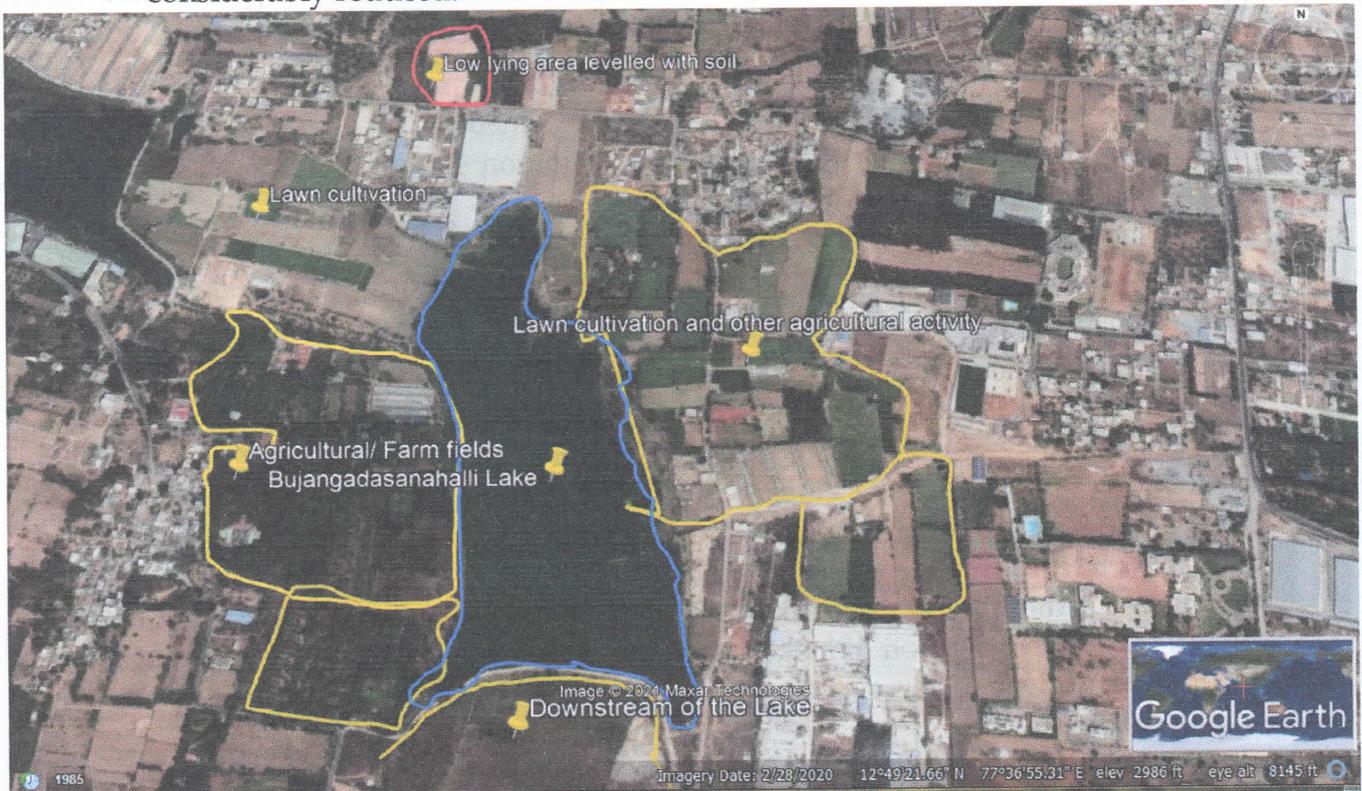
The abstract of the analysis reports till December-2020 are enclosed as **Ann-I**. Result of the analysis conforms to Class-D (Designated-Best-Use is Propagation of Wild life and Fisheries) of the Use based classification of surface waters in India by CPCB, New Delhi except for the month of December-2019 which conforms to Class C (Drinking water source with conventional treatment followed by disinfection) and the month of May-2020 which conforms to Class E (Irrigation, Industrial Cooling, Controlled Waste disposal). Further, the sample of the lake was not collected for the month of April-2020 due to the implementation of lockdown by the Government of India in view of COVID epidemic and the analysis reports of the lake water collected in January; February and March-2021 are awaited.

Further, Regional Office, Anekal had submitted the action taken report to Board Office pertaining to degradation of Bujangadasanahalli Lake vide above cited ref (2).



In continuation to the action taken by the Regional Office, Anekal; Bujangadasanahalli Lake was inspected on 04.03.2021 to ascertain the latest status and following are the observations made during the inspection:

- There is no intrusion of any industrial effluent to the Lake. Fishing activity was observed during the inspection at the northern part of the Lake.
- In the earlier inspections, it was noticed that sewage/sullage from the nearby villages was entering the Lake after stagnation in the low lying vacant area (Sy.No.147, Hullahalli village) just about 200m from Lake towards the northern end of Lake.
- Now, the entry of sewage has been completely stopped as the said low lying vacant area is leveled with soil by the owner of the land.
- Sewage is being diverted due to the leveling of low lying area i.e Sy.No.147, Hullahalli village. Hence, as of now there is no intrusion of any wastewater to the Lake. The drain connected to the Lake was completely dried up. Photographs taken during the inspection are enclosed.
- However, the Lake is surrounded by the agricultural fields both on eastern and western side of the Lakes. Hence, the Lake may receive the agricultural runoff (which may carries constituents of fertilizers and pesticides) from the surrounded agricultural lands from North Western; North Eastern and Eastern side of the Lake (as shown in Google earth image). Mainly the farmers are engaged in the cultivation of "grass lawn" in the said agricultural area.
- Further, as the summer is approaching the flow of sewage is being reduced as the over flow from the series of small tanks towards the northern side is considerably reduced.



Google Earth image showing Bujangadasanahalli Lake and surroundings.



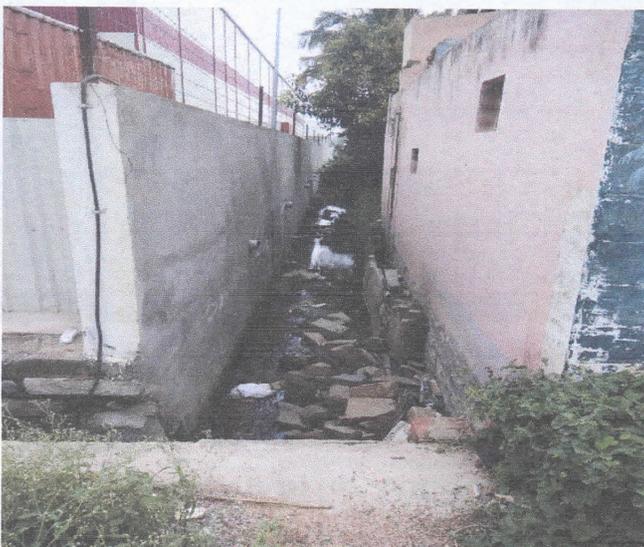
As on 24.09.2019



Leveled land as on 04.03.2021



View of leveled low lying area towards Bujangadasanahalli Lake



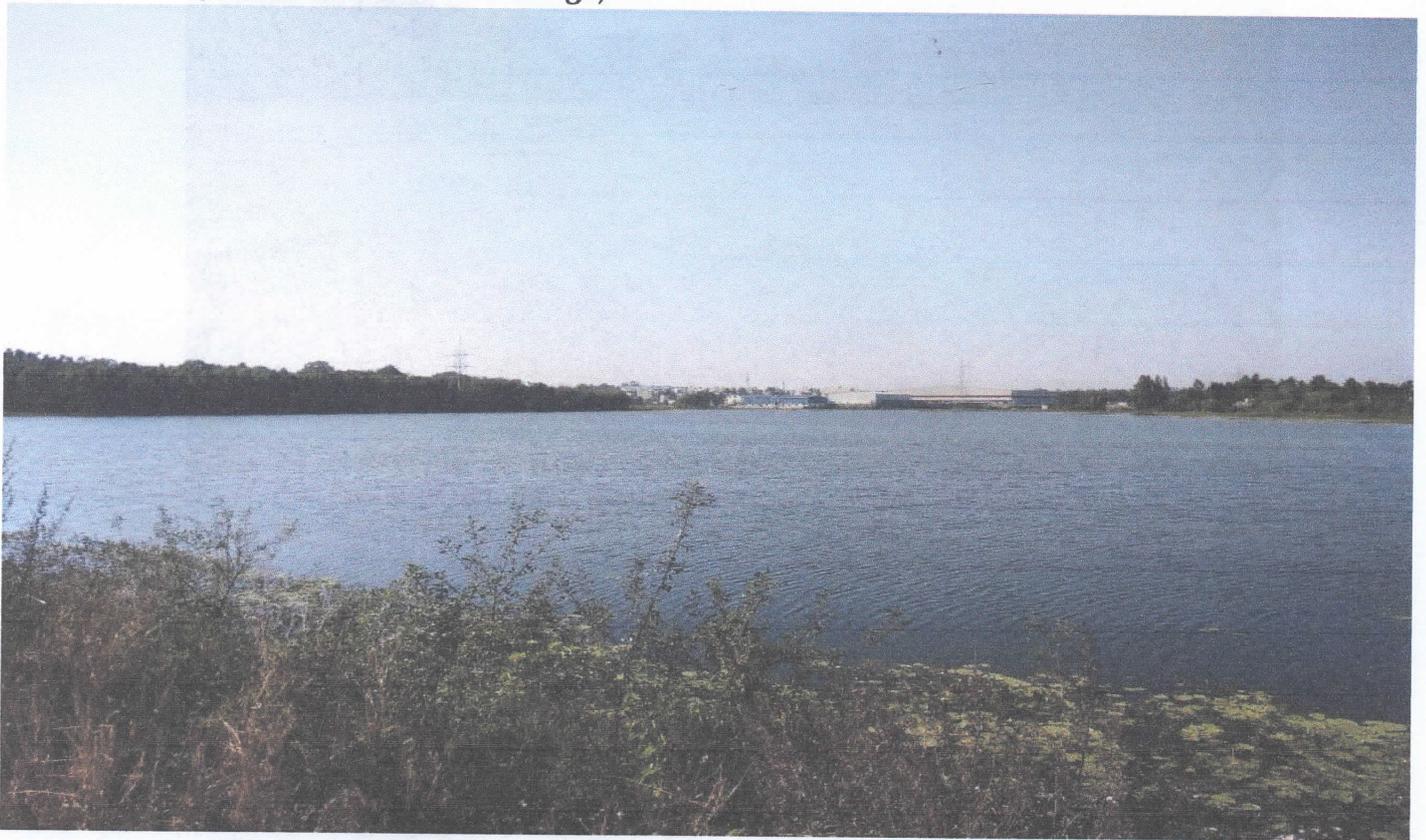
As on 24.09.2019 sewage intrusion to Lake



Completely dried drain and no flow of sewage as observed on 04.03.2021

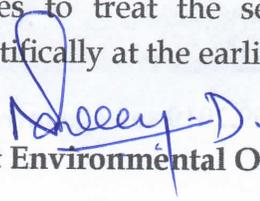


Sewage/sullage from nearby villages stagnated and diverted due to leveling of the land (Sy.No.147, Hullahalli village).



A view of Bujangadasanahalli Lake as on 04.03.2021.

In view of the above mentioned facts, it is evident that as of now there is no intrusion of wastewater from any point sources to Bujangadasanahalli Lake. However, Gram Panchayath, Mantapa has to execute the requisite measures to treat the sewage generated from the villages of Mantapa Gram Panchayath scientifically at the earliest.


Assistant Environmental Officer

Abstract of analysis report of Bhujangadasanahalli Lake water samples collected from Sep-2019 to Dec-2020.

Bhujangadasanahalli Lake

Sl. No.	Parameter Analyses	Unit	Water Quality Criteria					Dec-19 (Sample taken at different points)							
			A	B	C	D	E	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.		
1	pH @25° C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	Sep-19	W-1963	W-2317	W-2560	N:12.818793 E:77.612324	N:12.819203 E:77.615427	N:12.825239 E:77.612549	
2	Conductivity @25° C	µs/cm	-	-	-	-	2250	7.3	452	6.7	415	407	6.9	7.3	6.8
3	Dissoved Oxygen	mg/L	6	5	4	4	-	5	7.1	7.1	6.3	4.9	4.9	4.13	4.24
4	Biochemical Oxygen Demand (3 days @27° C)	mg/L	2	3	3	-	-	3	9	9	3	4	3	5.2	4.5
5	Total Coliform	MPN/100 ml	50	500	5000	-	-	9200	540000	3500	3500	1600000	54000	54000	35000
6	Free Ammonia as N	mg/L	-	-	-	12	-	0.003	0.004	BDL	BDL	0.0005	0.0004	0.0004	0.0005
7	Boron as B	mg/L	-	-	-	-	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
8	Sodium Absorption Ratio	-	-	-	-	-	26	2.3	2.14	1.67	1.67	2.22	2.22	2.22	2.26
9	Total Kjeldhal Nitrogen as N	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Total Phosphorous	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
INFERENCE								D	D	C	D	D	D	D	D

| Sample No. |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| W-2886 | W-3040 | W-3126 | | W-3381 | W-134 | W-252 | W-483 | W-1565 | W-1850 | W-2186 | W-2482 | |
| Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | |
| 6.8 | 8 | 7.08 | | 6.75 | 7.49 | 7.04 | 7.33 | 6.7 | 6.4 | 6.1 | 7.2 | |
| 412 | 910 | 741 | | 460 | 499 | 365 | 430 | 724 | 409 | 330 | 366 | |
| 7.5 | 5.9 | 5.4 | | 2.5 | 4.5 | 4.5 | 5.3 | 4.8 | 5.6 | 4 | 6.2 | |
| 4 | 12 | 3 | | 11 | 7 | 5 | 5 | 8 | 7 | 3.3 | 5 | |
| - | 16000 | 54000 | | 16000 | 5400 | 160000 | 16000 | 35000 | 9200 | 16000 | 54000 | |
| 0.0005 | 0.003 | 0.001 | | 0.0014 | 0.0006 | 0.002 | 0.002 | 0.0004 | 0.0009 | 0.0001 | - | |
| BDL | BDL | BDL | | BDL | |
| 2.85 | 5 | 1.93 | | 0.25 | 2.84 | 2.67 | 1.32 | 2.5 | 2.3 | 1.645 | - | |
| 0.441 | 0.08 | 0.3 | | 0.33 | 0.0442 | - | - | - | - | - | - | |
| BDL | 0.015 | 0.21 | | 0.11 | 0.1 | 0.013 | BDL | 0.12 | 0.07 | 0.039 | 1.039 | |
| - | D | D | | E | D | D | D | D | D | D | D | |
| | | | | | | | | | | | | |

Unable to collect the sample Due to Covid-19 Lock down