

**BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI
ORIGINAL APPLICATION No. 100 OF 2022 (SZ)**

IN THE MATTER OF:

Akula Satish,
Telangana State

....

Applicant(s)

Versus

State of Telangana,
Represented by its Principal Secretary,
Hyderabad and Ors

....

Respondent(s)

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Place: Hyderabad

Date: 13-01-2023.

**REPORT OF THE ENVIRONMENTAL ENGINEER, TELANGANA STATE
POLLUTION CONTROL BOARD (TSPCB), REGIONAL OFFICE, R.C.
PURAM (R- 4) IN OA NO.100 of 2022 FILED BY SRI. AKULA SATISH,
R/O NIZAMPET, BACHUPALLY (M), MEDCHAL MALKAJGIRI DISTRICT.**

It is to submit that, Sri. Akula Satish, S/o Lingaiah, Plot. No. 20, Flot No. 402, Hari Sree Avenues1, Nizampet, Bachupally (M), Medchal Malkajgiri District has filed O.A.No. 100 of 2022 in the Hon'ble National Green Tribunal (NGT), Southern Zone, Chennai regarding the encroachment and damage caused to Visukavani Cheruvu, Kazipally (V), Jinnaram (M), Sangareddy District & Dundigal Municipality area of Medchal Malkajgiri District.

The Board is 4th Respondent in the above case. The main prayer of the applicant is as follows:

- i. Direct the official Respondents or appoint an independent Joint Committee to conduct detailed assessment on adverse effects on Visukavani Cheruvu/Lake due to illegal constructions by the private respondents and restore the same to its original position.
- ii. Direct the Respondents No. 1 to 8 to fix the responsibility on the officials / in officials for the encroachment and damage caused to the water body.
- iii. Pass any other orders as the Hon'ble Tribunal may deem fit and proper in the facts and circumstances of the case.

The Board Officials inspected Visukavani Cheruvu/Lake and its surroundings on 30.12.2022 and also collected water samples from the Lake. The status report is submitted as follows:

1. Visukavani Cheruvu is a lake located in Kazipally (V), Jinnaram (M), Sangareddy District. (Latitude: N 17^o33'58", Longitude: E 78^o21'33").
2. As per the Revenue Department records (Kasra pahani 2012-13), the area of the lake is Acre 11.27 guntas.
3. The boundaries of the lake are as mentioned below:

North	Independent villas of M/s. JNS Infrastructures Pvt. Ltd, Kazipally (V), Jinnaram (M), Sangareddy District
South	Ayacut area followed by open plots.
East	Independent villas of M/s. JNS Infrastructures Pvt. Ltd, Mallampet (V), Dundigal Municipality area of Medchal Malkajgiri District

North-East	Gated community venture of M/s. Modi Builders & Realtors Pvt. Ltd. ("Edifice Apartments" of M/s. Edifice Homes India Pvt. Ltd)
West	Outer Ring Road to Kazipally village road.

Villas Project site boundary of M/s. JNS Infrastructures Pvt. Ltd, Kazipally (V), Jinnaram (M), Sangareddy District is located adjacent to the lake bed in the North direction (separated by 30 feet road).

Gated community Project site boundary of M/s. Modi Builders & Realtors Pvt. Ltd. Medchal Malkajgiri District ("Edifice Apartments" of M/s. Edifice Homes India Pvt. Ltd.) is located adjacent to lake bed in the North-East direction (separated by 30 feet road.)

Villas Project site boundary of M/s. JNS Infrastructures Pvt. Ltd, Mallampet (V), Dundigal Municipality area of Medchal Malkajgiri District is located adjacent to the lake bed in the East direction.

4. The construction project "Edifice Apartments" of M/s. Edifice Homes India Pvt. Ltd, Shambpur(V), Medchal Malkajgiri District is located on North-East side of the lake.

During inspection, the representative of M/s. Modi Builders & Realtors Pvt. Ltd. Medchal Malkajgiri District (R11) informed that they have obtained Environmental Clearance from SEIAA vide order dt. 26.04.2018 and Consent for Establishment (CFE) from TSPCB vide order dt. 28.01.2019 for construction project in the name of "Edifice Apartments" of M/s. Edifice Homes India Pvt. Ltd, Sy.No. 63/p, 68/p, 69/p, 70/p, Shambpur(V), Medchal Malkajgiri District. The proposed residential project consists of the following:

- Block A – 2C + G + 12 floors to accommodate 403 units;
- Block B - 2C + G + 12 floors to accommodate 338 units;
- Amenities Block – G + 4 floors.
- Total Plot area – 20,053 Sq.m
- Total built-up area – 1,22,803.4 Sq.m

The project is under construction and not yet occupied.

As per the CFE order dated 28.01.2019, the project shall provide Sewage Treatment Plant (STP) to treat the domestic waste water generated. The treated wastewater shall be used for flushing the Toilets and development of greenery. Excess treated wastewater shall be discharged into public sewer line.

5. The construction project of M/s. JNS Infrastructures Pvt. Ltd. is located on North and East side of the lake.

The representative of M/s. JNS Infrastructures Pvt. Ltd, (R12) informed that they are constructing 73 no. of independent villas in an extent of Ac 05.13 Gts in Sy. No. 183, 184, 185 of Kazipally (V), Jinnaram (M), Sangareddy District and 83 no. of independent villas in an extent of Ac 04.28 Guntas in Sy. No. 18, 19 & 20 of Mallampet (V), Bachupally (M), Medchal Malkajgiri District. He informed that the total built-up area of the project is less than 20,000 Sq.m.

6. During inspection, it was observed that there was no inflows into the Visukavani Cheruvu. On local enquiry, it is learnt that the overflow from Mallampet lake joins into Visukavani Cheruvu. The outlet from the Visukavani Cheruvu finally joins Sulthanpur lake.
7. No dumping of waste was observed in and around the Visukavani Cheruvu. However, there is possibility of discharge of sewage from the surrounding construction projects into the Visukavani Cheruvu.
8. The Board Officials collected water samples from the Visukavani Cheruvu on 30.12.2022. The analysis results of the samples are submitted as below:

Sample code		:	Sample details / collection point		
2022—12487		:	Water sample collected from East side of the VisukavaniCheruvu, Kazipally (V), Jinnaram (M), Sangareddy District.		
2022--12488		:	Water sample collected from West side (near Outlet) of the Visukavani Cheruvu, Kazipally (V), Jinnaram (M), Sangareddy District.		
S. No.	Parameter	Units	Method No*	Results	
				12487	12488
1	pH		4500-H ⁺ -B	7.26	7.54
2	E. Conductivity	µmhos/cm	2510-B	1632	1345
3	Total Suspended Solids (TSS)	mg/L	2540-D	28	26
4	Total Dissolved Solids (TDS)	mg/L	2540-C	996	812
5	Chemical Oxygen Demand (COD)	mg/L	5220-B	19	18
6	Biological Oxygen Demand (BOD)	mg/L	5220-B	2.8	2.6
7	Dissolved Oxygen (DO)	mg/L	4500-O C	5.8	6.0
8	Total Alkalinity as CaCO ₃	mg/L	2320-B	188	168
9	Total Hardness as CaCO ₃	mg/L	2340-C	384	336
10	Calcium as Ca ²⁺	mg/L	3500-Ca B	78	69
11	Magnesium as Mg ²⁺	mg/L	3500-Mg B	46	40
12	Chlorides as Cl ⁻	mg/L	4500-Cl ⁻ B	224	208

13	Sulphates as SO ₄ ²⁻	mg/L	4500-SO ₄ ²⁻	38	32
14	Nitrates as NO ₃ ⁻	mg/L	4500-B-NO ₃ ⁻	4	3
15	Sodium as Na ⁺	mg/L	3500-Na B	60	57
16	Potassium as K ⁺	mg/L	3500-K B	3	2
17	Percent Sodium (%Na)	%(meq/L)	-	25.04	26.61
18	Sodium Absorption Ratio (SAR)	Meq/L	-	1.33	1.35
19	Total Coli form (MPN/100ml)	MPN/100ml	9221-B&D	84	79
20	Cadmium	mg/L	3111 B&3500 -Cd	BDL	BDL
21	Lead	mg/L	3111 B&3500 -Pb	BDL	BDL
22	Total Chromium	mg/L	3111 B&3500 -Cr	BDL	BDL
23	Copper	mg/L	3111 B&3500 -Cu	BDL	BDL
24	Nickel	mg/L	3111 B&3500 -Ni	BDL	BDL
25	Zinc	mg/L	3111 B&3500-Zn	BDL	BDL
26	Iron	mg/L	3500-Fe B&3111-B	BDL	BDL

BDL: Below Detectable Limit

9. The Water Quality Criteria stipulated by Central Pollution Control Board (CPCB) is as follows:

CPCB Water Quality Criteria					
Parameters	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
Electrical conductivity	-	-	-	-	Max 2250
Dissolved oxygen	6 or >6	5 or >5	4 or >4	4 or >4	-
BOD ₃ at 27°C	2 or < 2	3 or < 3	3 or < 3	-	-
Free Ammonia	-	-	-	1.2 or <1.2	-
SAR	-	-	-	-	Max 26
Boron	-	-	-	-	Max 2
Total coli form	50 or < 50	500 or < 500	5000 or < 5000	-	-

CPCB Water Quality Criteria:

A-Drinking Water Source without conventional treatment but after disinfection.

B-Outdoor bathing (Organized).

C-Drinking water source after conventional treatment and disinfection.

D-Propagation of Wild life and Fisheries.

E-Irrigation, Industrial Cooling, Controlled Waste disposal.

Below E – Not meeting A, B, C, D & E criteria.

As per the analysis report of the water samples, the Visukavani Cheruvu water is falling under CPCB water quality criteria of **B (Outdoor bathing (Organized))**. Copy of the analysis report is enclosed as **Annexure – I**.

It is to submit that presently, there is no discharge of waste water into the Visukavani Cheruvu.

The construction projects located around the lake are presently under construction stage and have not yet provided sewage treatment plants to treat the sewage. There is no public sewer line existing in the surrounding area of the lake.

There is possibility of sewage joining the lake from the construction projects after commissioning (i.e. after occupancy), if adequate sewage treatment plants are not provided. These projects have to be monitored regularly to prevent any discharges into the lake.

In view of the above, the permissions for the construction projects in the surroundings of the lake may be restricted.

With regards to encroachment of lake, the competent authorities to verify encroachments are Revenue Department, HMDA and Irrigation Department.

Submitted.

Place: Hyderabad

Date: 12.01.2023

KMM
12-01-2023
ENVIRONMENTAL ENGINEER
ENVIRONMENTAL ENGINEER
T.S. Pollution Control Board
Regional Office, R.C. Puram
Sangareddy Dt. 502 032.

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ANNEXURE - I



TELANGANA STATE POLLUTION CONTROL BOARD
ZONAL LABORATORY: R.C.PURAM
25-35/11, Tulasi Reddy Complex, R.C.Puram, Sangareddy District.

ANALYSIS REPORT

Sample Nos. 2022 – 12487 & 12488

- 1) Sample Description : Surface water samples collected from Visukavani Cheruvu, Khazipally (V), Jinnaram (M), Sangareddy District. (In connection with NGT case O.A. No. 100-of 2022)
- 2) Sample Source :
2022 – 12487 : Water sample collected from East side of Visukavani Cheruvu, Khazipally (V), Jinnaram (M), Sangareddy District.
2022 – 12488 : Water sample collected from West side (near Outlet) of Visukavani Cheruvu, Khazipally (V), Jinnaram (M), Sangareddy District.
- 3) Sample Collected on : 30/12/2022
4) Sample Received on : 30/12/2022
5) Report issued on : 09/01/2023
6) Sample Collected by : AES, RO-R.C.Puram

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26	Iron	mg/L	3500-Fe B&3111-B	BDL	BDL

*Standard Methods for the examination of water & waste water APHA – 23rd edition.

Note:

- 1) Results are related to samples as received.
2) All Values are expressed in mg/L except pH.

BDL – Below Detectable Limit.

[Signature]
SENIOR ENVIRONMENTAL SCIENTIST

