

**BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN BENCH, CHENNAI**

ORIGINAL APPLICATION No. 116 of 2023
[Earlier, OA No. 740 of 2022 (PB), New Delhi]

IN THE MATTER OF:

Dr. Devesh Nigam

.... Applicant

Versus

Telangana State Pollution Control Board
& Others

.... Respondents

REPORT OF THE TELANGANA POLLUTION CONTROL BOARD (R1)

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Place: Hyderabad

Date: 02-09-2024.



COUNSEL FOR RESPONDENT No.1

1

**REPORT OF THE TELANGANA STATE POLLUTION CONTROL BOARD (TGPCB)
IN OA NO. 116 OF 2023 (EARLIER OA NO. 740 OF 2022) BASED ON A
COMPLAINT RECEIVED BY POST FROM DR. DEVESH NIGAM, REGISTRAR,
UNIVERSITY OF HYDERABAD**

It is to submit that, the Hon'ble National Green Tribunal (NGT), New Delhi has registered Original Application based on a complaint received by post from Dr. Devesh Nigam, Registrar, University of Hyderabad. The grievance in the application is regarding untreated sewage and medical waste being discharged into Central University campus by Sports Complex of Telangana & Telangana Institute of Medical Sciences (TIMS) and also from adjacent colonies.

The Hon'ble NGT, New Delhi passed an order dated 03.01.2023 in the O.A. No. 740 of 2022 constituting a Joint committee comprising of members from State PCB, GHMC & District Collector-RR District with the nodal agency as the District Collector, RR District for coordination & compliance and to submit report within two months.

Accordingly, the Joint Committee members inspected the University of Hyderabad (Central University) and its surroundings on 07.02.2023 and a report was submitted to the Hon'ble NGT, New Delhi.

Further, the above matter was transferred before the Hon'ble NGT, South Bench, Chennai and the same is re-numbered as O.A. No. 116 of 2023.

Further, TGPCB also submitted reports vide report dated:27.09.2023 & 11.03.2024.

Subsequently, the matter was heard by the Hon'ble NGT(SZ), Chennai on 14.03.2024, 07.05.2024 & 18.07.2024.

The Hon'ble NGT South Zone, Chennai, vide order dated:18.07.2024 ordered as follows:

"The 2nd Respondent / Greater Hyderabad Municipal Corporation (GHMC) has not been represented through their counsel and their report is awaited"

"The HMWSSB (Respondent No.4), in its report, has stated that for the diversion of the sewer main to reroute sewage away from Peacock Lake, the GHMC has entrusted the work to the contracting agency for an amount of Rs.296 Lakhs and the work is in progress"

"Unless the GHMC files their report, the time frame within which it can be completed cannot be ascertained. If the report is not filed by the GHMC before the date of next hearing, the same will be received only on payment of cost"

"Post the Matte on 03.09.2024"

In this regard the following is submitted:

1. The Board reviewed status of compliance by M/s Hyderabad Metropolitan Water Supply & Sewerage Board (HMWS&SB) during the Taskforce Committee Meeting held on 26.04.2024 and issued following directions to the Managing Director, HMWS&SB, Khairatabad, Hyderabad, vide order dated 07.05.2024 (**ANNEXURE-I**):
 - a) The HMWS&SB shall submit action plan along with timeline within a week from the date of this order, on construction of STP to treat the sewage coming from HUC main & Nallagandla main including drains from TNGOs colony & Gopanpally villages.
 - b) The HMWS&SB shall prevent joining of sewage into peacock lake and Nallagandla lake and ensure of sewage in STP, coming from HCU main & Nallagandla main which includes drains from TNGOs colony & Gopanpally villages.
2. The HMWS&SB has not submitted compliance status on the directions issued by the Board.
3. Further, the Board officials inspected the premises of University of the Hyderabad campus and its surroundings on 27.08.2024 and observed the following:
 - A. The Greater Hyderabad Municipal Corporation (GHMC) has started pipeline works for diversion of sewage joining Peacock Lake. Trench works for laying pipeline were carried along the Peacock Lake (about 300 mts) only and partial pipe line laying of about 50 mts was completed. During the inspection no progress on works were observed pertaining to laying pipeline.
 - B. It was also observed that, the HMWS&SB is also carrying pilot works for *in-situ* treatment of sewage flowing in the drain and joining Nallagandla Lake with "Advanced Oxidation Protocol" based on Ozonation.
 - C. Sewage flowing in the drains from outside colonies leading to Peacock Lake & Nallagandla Cheruvu is continuing and the status of flow of the drains leading to these lakes is placed as below:

a) Drains leading to Peacock lake & Nallagandla Cheruvu :

Sl. No.	Source of sewage in upstream	GPS Coordinates of the sewage entering into the premises	Un treated, Sewage leading to	Status of sewage flow observed
1	Drain -1, passing from TNGOs colony area into central university campus	17°26'38.87"N 78°20'5.01"E	Peacock Lake	Normal flow
2	Drain -2, passing from TNGOs colony area into central university campus	17°26'45.56"N 78°19'51.94"E	Peacock Lake	Normal flow

3

3	Drain -3, passing from TNGOs colony area into central university campus	17°26'48.99"N 78°19'43.40"E	Peacock Lake	Lean flow
4	Drain -4, passing from TNGOs colony area into central university campus	17°26'35.02"N 78°19'28.80"E	Peacock Lake	Normal flow
5	Nallah passing from premises of TIMS, Stadium & Residential colonies.	17°26'46.86"N 78°20'31.95"E	Peacock Lake	Normal flow

b) Drains leading to Nallagndla Lake:

Sl. No	Source of untreated sewage in upstream	GPS Coordinates of the sewage entering into the premises	Untreated Sewage leading to	Status of sewage flow observed
1	Drain passing from Gopanpally village area entering into University campus	17°27'7.02"N 78°18'41.51"E	Nallagandla Lake	Lean Flow
2	Drain passing from Gopanpally village area entering into University campus Beside Sapthagiri Enclave (back side of M/s. Aparna Sarovar, Nallagandla)	17°27'40.38"N 78°18'44.56"E	Nallagandla Lake	Normal flow

D. The Board officials collected samples from Peacock lake and Nallagandla Cheruvu on 27.08.2024. The analysis reports of Peacock lake and Nallagndla Cheruvu are as follows:

S. No	Parameter	Unit	Results	
			Peacock lake 24/08/604	Nallagandla Cheruvu 24/08/605
1.	pH	--	738	7.47
2.	Electrical Conductivity	µS/cm	854	789
3.	Dissolved Oxygen	mg/L	5.8	6.6
4.	Chemical Oxygen Demand	mg/L	40	24
5.	BOD 3 at 27°C	mg/L	10	7
6.	Total Suspended Solids	mg/L	12	08
7.	Total Dissolved Solids	mg/L	472	440
8.	Free Ammonia	mg/L	0.026	BDL
9.	SAR	-	2.0	2.5
10.	Total coliform	MPN/100ml	120	84
11.	Fecal coliform	MPN/100ml	9.3	6.1
CPCB water quality criteria class			D	D

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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 coliform	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

- E. As per CPCB water quality criteria classification, as per the analysis reports of the Peacock lake & Nalagandla lake, the water quality falls under category "D-Class", which means it can be used for Propagation of wild life and fisheries but cannot be used for drinking, outdoor bathing etc.

Submitted.

Place: Hyderabad.
Date: 31.08.2024


ENVIRONMENTAL ENGINEER

5



TELANGANA STATE POLLUTION CONTROL BOARD

Paryavarana Bhavan, A-III, Industrial Estate, Sanathnagar, Hyderabad-500 018
Phones : 040-23887500 Fax: 040 - 23887519

BY REGD. POST WITH ACK. DUE

Water (Prevention and Control of Pollution) Act, 1974 (as amended by Act 53 of 1988)

Order No. RR-I-LEGAL/TSPCB/TF/BO/UH-VI/2023- 311 **Date: 07.05.2024**

Sub : TSPCB - O.A. No. 116 of 2023 (Earlier O.A. No. 740 of 2022) filed by Dr. Devesh Nigam in Hon'ble NGT - Water (Prevention and Control of Pollution) Act, 1974 (as amended by Act 53 of 1988) - **Directions - Issued - Reg.**

Ref :

1. OA No. 740 of 2022 based on a complaint received by post from Dr. Devesh Nigam, Registrar, University of Hyderabad.
2. Hon'ble NGT, New Delhi Orders dated 03.01.2023 in the O.A. No. 740 of 2022.
3. Inspection of the University of Hyderabad (Central University) and its surroundings by the joint committee on 07.02.2023.
4. Hon'ble NGT, South Zone, Chennai Orders dated 22.08.2023 in the O.A. No. 116 of 2023 (Earlier 740 of 2022).
5. TSPCB letter dated 10.10.2023.
6. Hon'ble NGT, South Zone, Chennai, orders dated 13.02.2024 in O.A. No. 116 of 2023.
7. TSPCB show cause cum hearing notice dated 28.02.2024.
8. Inspection of the Board officials on 07.03.2024.
9. Hon'ble NGT, South Zone, Chennai, orders dated 14.03.2024 in O.A. No. 116 of 2023.
10. Hearing held on 26.04.2024.

1. WHEREAS, the Hon'ble National Green Tribunal (NGT), New Delhi, registered Original Application based on a complaint received by post from Dr. Devesh Nigam, Registrar, University of Hyderabad. The grievance in the application is regarding untreated sewage and medical waste being discharged into Central University campus by Sports Complex of Telangana & Telangana Institute of Medical Sciences (TIMS) and also from adjacent colonies.
2. WHEREAS, the District collector, Rangareddy nominated Sri. Prateek Jain, IAS, Additional Collector (Local Body) as representative of District Collector, R.R District. The Telangana Pollution Control Board (TSPCB) has nominated Sri D. Krupanand, Joint Chief Environmental Engineer (JCEE), Zonal Office, Hyderabad as representative of TSPCB, Sri. J. Shankaraih, Zonal Commissioner, GHMC, Serlingampally was nominated as representative of GHMC.
3. WHEREAS, as per the orders of the Hon'ble NGT, the joint committee members inspected the University of Hyderabad (Central University) and its surroundings on 07.02.2023 and submitted a report to the Hon'ble National Green Tribunal (NGT), New Delhi.
4. WHEREAS, the case was transferred before the Hon'ble NGT, South Bench, Chennai and the same is re-numbered as O.A. No. 116 of 2023.
5. WHEREAS, the Hon'ble NGT, South Zone, Chennai, vide order dated: 22.08.2023 ordered as follows:

"As the Joint Committee has recommended that the Telangana State Pollution Control Board (TSPCB) shall ensure the sewage generated from the gated communities and all high-rise buildings operate the STPs regularly and reuse the same without discharging the untreated sewage water into the University premises, the Telangana SPCB is directed to furnish the details regarding the consent (if any) obtained by these commercial and residential apartments if they had already installed STPs. If not, the Telangana SPCB is to find out how the sewage is being treated."

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In this regard, we call for a report from the HMWSSB (Respondent No.4) as to the status of the STPs provided not only in and around the application mentioned area viz., Gachibowli, but also the other places with reference to the report of the Joint Committee"

6. WHEREAS, The Board officials inspected the Lakes and surrounding areas on 11.09.2023 and submitted the following :

i. Nallah and drains passing and leading to Peacock lake and Nallagandla Cheruvu are as follows:

S. No.	Source of sewage in upstream	GPS Coordinates of the sewage entering into the premises	Un treated, Sewage leading to
1	Nallah passing from premises of TIMS, Stadium & Residential colonies	17°26'46.86"N 78°20'31.95"E	Peacock Lake
2	Drain -1, passing from TNGOs colony area into central university campus	17°26'38.87"N 78°20'5.01"E	Peacock Lake
3	Drain -2, passing from TNGOs colony area into central university campus	17°26'45.56"N 78°19'51.94"E	Peacock Lake
4	Drain -3, passing from TNGOs colony area into central university campus	17°26'48.99"N 78°19'43.40"E	Peacock Lake
5	Drain -4, passing from TNGOs colony area into central university campus	17°26'35.02"N 78°19'28.80"E	Peacock Lake
6	Drain passing from Gopanpally village area entering into University campus	17°27'7.02"N 78°18'41.51"E	Nallagandla Lake
7	Drain passing from Gopanpally village area entering into University campus (back side of M/s. AparnaSarovar, Nallagandla)	17°27'40.38"N 78°18'44.56"E	Nallagandla Lake

ii. The details of water samples collected from the water bodies of Peacock lake and Nalagandla lake are tabulated below:

• Peacock lake water analysis :

S. No	Parameter	Unit	Results	
			Sampling date	
			09.02.2023	11.09.2023
1.	pH	--	8.52	7.12
2.	Electrical Conductivity	µS/cm	1129	563
3.	Dissolved Oxygen	mg/L	5.7	4.0
4.	Chemical Oxygen Demand	mg/L	290	94
5.	BOD 3 at 27°C	mg/L	97	27
6.	Total Suspended Solids	mg/L	466	10
7.	Total Dissolved Solids	mg/L	756	346
8.	Free Ammonia	mg/L	0.34	BDL
9.	SAR	-	4.4	2.0
10.	Total coliform	MPN/100ml	430	540
11.	Fecal coliform	MPN/100ml	210	NA
CPCB water quality criteria class			D	D

• Nallagandla lake Water analysis :

S. No	Parameter	Unit	Results	
			Sampling date	
			Nov- 2022	11.09.2023
1.	pH	--	7.37	7.23
2.	Electrical Conductivity	µS/cm	628	609
3.	Dissolved Oxygen	mg/L	3.9	4.0
4.	Chemical Oxygen Demand	mg/L	--	63
5.	BOD 3 at 27°C	mg/L	3	18
6.	Total Suspended Solids	mg/L	--	07
7.	Total Dissolved Solids	mg/L	--	379
8.	Free Ammonia	mg/L	--	BDL
9.	SAR	-	--	2.3
10.	Total coliform	MPN/100ml	350	350
11.	Fecal coliform	MPN/100ml	--	NA
CPCB water quality criteria class			E	D

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 coliform	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 reports of the Peacock lake &Nalagandla lake, the water quality falls under category D-Class of CPCB classification.

7. WHEREAS, the status was reviewed in the Board's Task Force Committee meeting held on 22.09.2023. After detailed discussions, the Committee recommended to address a letter to the Managing Director, HMWS&SB requesting to prevent joining of sewage into Peacock lake and Nallagandla lake and ensure treatment of sewage in STP, coming from HCU main & Nallagandla main which includes drains coming from TNGOs colony & Gopanapally village. Accordingly, the Board addressed a letter to the Managing Director, HMWS&SB, Khairatabad, Hyderabad on 10.10.2023.
8. WHEREAS, the Hon'ble NGT, South Zone, Chennai, vide order dated: 13.02.2024 ordered as follows:

"Let the TSPCB file another detailed report in this regard, the action taken and the recommendations or suggestions given to the appropriate persons/institutions/authorities concerned. If the TSPCB had not taken any action and filed the report before the next date of hearing, the TSPCB will be liable for a penalty that may be imposed by this Tribunal."

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"Let the HMWSSB also furnish the interim measures to plug the outfall of sewage into the University Campus and take appropriate action against the wrongdoers. Let the report be filed on 14.03.2024"

9. WHEREAS, the Regional office, Rangareddy issued a show cause notice on 28.02.2024 to the HMWS & SB for not taking any preventive measures in order to stop the joining of sewage into Water bodies.
10. WHEREAS, the EE.RO. Rangareddy vide letter dated 06.03.2024 communicated the order of the Hon'ble NGT, South Zone, Chennai, dated 13.02.2024 in O.A. No. 116 of 2023 and also requested to furnish the action taken report / Action plan for prevention of joining of sewage in to water bodies and also furnish reply to the Board Office letter dated 10.10.2023 in compliance of the orders of the Hon'ble NGT, South Zone, Chennai.
11. WHEREAS, the Board officials inspected the University of the Hyderabad to verify the sewage flow from outside area in to periphery of the University of the Hyderabad on 07.03.2024. During inspection, sewage water flow was observed from existing drainage lines from the residential areas of TNGOs colony and Gopanpally village. The Board officials collected water samples from Peacock lake and Nallagandla lake. The analysis results are as follows:

24/03/168 - Water sample collected from Peacock Lake located within the premises of University of Hyderabad, Gachibowli (V), Serlingampally (M), Rangareddy District.

Parameters	Method No.	Unit	Results
			24/03/168
pH at 25° c	4500-H + B	-	8.29
Electrical conductivity at 25° c	2510-B	µS/cm	969
Chemical Oxygen Demand	5220-D	mg/L	38
BOD 3 at 27°C	IS 3025, 1993	mg/L	10
Total Suspended Solids	2540-D	mg/L	08
Total Dissolved Solids	2540-D	mg/L	592
Total Hardness as CaCO3	2340 C	mg/L	280
Calcium as Ca+2	3500-Ca B	mg/L	76
Magnesium as Mg+2	3500-Mg B	mg/L	22
Potassium as K	3500-K B	mg/L	03
Sodium as Na	3500-Na B	mg/L	116
Ammonical Nitrogen	4500-NH ₃ C, F	mg/L	<5
Dissolved oxygen	4500- O C	mg/L	6.2
Free Ammonia	Calculation Method	mg/L	BDL
% Sodium	%		47
SAR	-	-	3.0
Total coliform	9221 - B, C	MPN/100ml	110
Fecal coliform	9221 - B, C	MPN/100ml	13
CPCB water quality criteria class			D

24/03/169 - Water sample collected from Nallagandla Cheruvu, Nallagandla (V), Serlingampally (M), Rangareddy District.

Parameters	Method No.	Unit	Results
			24/03/169
pH at 25° c	4500-H + B	-	7.96
Electrical conductivity at 25° c	2510-B	µS/cm	690
Chemical Oxygen Demand	5220-D	mg/L	30
BOD 3 at 27°C	IS 3025, 1993	mg/L	08
Total Suspended Solids	2540-D	mg/L	06
Total Dissolved Solids	2540-D	mg/L	398
Total Hardness as CaCO3	2340 C	mg/L	170
Calcium as Ca+2	3500-Ca B	mg/L	40
Magnesium as Mg+2	3500-Mg B	mg/L	17

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Potassium as K	3500-K B	mg/L	04
Sodium as Na	3500-Na B	mg/L	96
Ammonial Nitrogen	4500-NH ₃ C, F	mg/L	<5
Dissolved oxygen	4500- O C	mg/L	6.8
Free Ammonia	Calculation Method	mg/L	BDL
% Sodium	%		54
SAR	-	-	3.2
Total coliform	9221 - B, C	MPN/100ml	79
Fecal coliform	9221 - B, C	MPN/100ml	6.1
CPCB water quality criteria class			D

As per the analysis reports of the Peacock lake & Nalagandla lake, the water quality falls under category D-Class of CPCB classification.

12. The Hon'ble NGT, South Zone, Chennai, vide order dated 14.03.2024 ordered as follows:

- "
- Today, the Telangana State Pollution Control Board has filed its report, which is yet to be uplodaded, wherein it is stated that a show cause notice has been issued to the Hyderabad Metropolitan Water Supply and Sewerage Board (HMWSSB) for not taking action to stop the sewage mixing into the water bodies.
 - Let the response by the HMWSSB and rejoinder (if any) by the applicant be filed before the date of next hearing.
 - Post the matter on 07.05.2024.
- "

13. WHEREAS, the status was reviewed in the Task Force Committee meeting held on 26.04.2024. The representative of HMWS & SB attended the meeting. After detailed discussions, the Committee recommended to issue certain directions to HMWS & SB.

14. After careful consideration of the material facts of the case, the Board hereby issue following directions to comply with :

- The HMWS & SB shall submit action plan along with timelines within a week from the date of this order, on construction of STP to treat the sewage coming from HCU main & Nallagandla main including drains from TNGOs colony & Gopanapally villages.
- The HMWS & SB shall prevent joining of sewage into Peacock lake and Nallagandla lake and ensure treatment of sewage in STP, coming from HCU main & Nallagandla main which includes drains from TNGOs colony & Gopanapally villages.

15. These orders are issued under Sec.33 (A) of Water (Prevention and Control of Pollution) Act, 1974 (as amended by Act 53 of 1988). Failing to comply with the above directions, action will be initiated by the Board under provisions of Water Act.

Sd/-
MEMBER SECRETARY

To
The Managing Director,
HMWS & SB,
Khairatabad,
Hyderabad - 500004.

Copy to :

- The JCEE, Legal cell for information and necessary action.
- The Environmental Engineer, Regional Office-Rangareddy for information and necessary action. The EE.RO. shall inspect the construction projects, located upstream of the Peacock and Nallagandla Lakes and submit a report for taking further necessary action.
- Concerned file.

//T.C.F.B.O//

P. Jawahar
Senior Environmental Engineer
(TF-HYD-UH-VI)

