

**BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI
ORIGINAL APPLICATION No. 182 OF 2020 (SZ)**

IN THE MATTER OF:

Dr.Nagam Janardhan Reddy,
Telangana & Ors

....

Applicant(s)

Versus

State of Telangana & Others

....

Respondent(s)

RUNNING INDEX

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Place: Hyderabad

Date: 19-07-2021.

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**REPORT OF THE ENVIRONMENTAL ENGINEER, TELANGANA STATE
POLLUTION CONTROL BOARD, REGIONAL OFFICE, HYDERABAD (R3) IN
ORIGINAL APPLICATION NO. 182 OF 2020 FILED BY DR.NAGAM
JANARDHAN REDDY & OTHERS.**

It is to submit that an Original Application No.182 of 2020 was filed by Dr.Nagam Janardhan Reddy and others before the Hon'ble National Green Tribunal, South Zone, Chennai alleging that indiscriminate illegal constructions are being done by the persons by encroaching into the water bodies and flood plains in Kesari Samudram Tank at Nagar Kurnool, Tummala Kunta at Nellikonda, Puntala kunta and Saddalasaab Kunta in Nagar Kurnool Municipality, Nagar Kurnool District.

The Respondent Board filed Counter Affidavit before the Hon'ble NGT in March 2021.

The Hon'ble NGT, Chennai vide order dated 09.06.2021 directed the Respondents to file further report in the matter.

It is to submit that the 3rd Respondent Board Officials have inspected the water bodies on 23.06.2021. During the inspection, the AEE of Nagar Kurnool Municipality was present. During the inspection, it was observed that two Lakes viz., Tummalakunta Lake and Puntalakunta Lake were in dry condition.

The Respondent Board Officials have collected the water samples of the following two lakes on 23.06.2021:-

- a) Lake water sample of Kesari Samudhram Minor irrigation Tank
- b) Lake water sample of Saddalasaab Kunta

Further, the Board Officials have also collected inlet of Kesari Samudram Lake i.e., Sewage discharged from Telephone Exchange Colony which is major inlet source to the Lake carrying sewage. The analysis report of two Lakes and inlet drain analysis of Kesari Samudhram Lake is enclosed as **Annexure-I**.

The analysis results are as follows: -

Sample code : Sample details / collection point

- | | |
|------|---|
| 6460 | - Water sample collected from Sabaisab Kunta (Saddalasaab Kunta) near to Naganool, Nagar Kurnool District |
| 6461 | - Water sample collected from Kesari Samudram lake, Nagar Kurnool District |

Parameters	Unit	Results	
		6460	6461

pH	-	7.77	8.51
Electrical conductivity	µS/cm	2033	807
Dissolved Oxygen	mg/L	4.5	4.9
Chemical Oxygen Demand	mg/L	81	44
BOD 3 days 27°C	mg/L	24	10
Total Suspended Solids	mg/L	47	<5
Total Dissolved Solids	mg/L	1293	489
Nitrates	mg/L	64	23
Boron	mg/L	BDL	BDL
Free Ammonia	mg/L	0.14	BDL
SAR	--	6.2	3.7
Total coliform	MPM/100 ml	170	140
Fecal coliform	MPM/100 ml	33	17
Heavy Metal			
Copper	mg/L	BDL	BDL
Nickel	mg/L	BDL	BDL
Zinc	mg/L	0.38	BDL
Cadmium	mg/L	<0.1	<0.1
Lead	mg/L	BDL	BDL
Total chromium	mg/L	BDL	BDL
CPCB water quality criteria class		D	D

Sample code : **Sample details / collection point**

6462

- Water sample collected from Inlet of Kesari Samudram lake from
- Telephone Exchange Colony, Nagar Kurnool District.

Parameters	Unit	Results
		6462
pH	-	7.48
Electrical conductivity	µS/cm	2112
Total Dissolved Solids	mg/L	1312
Total Suspended Solids	mg/L	62
Chemical Oxygen Demand	mg/L	173
BOD 3 days 27°C	mg/L	54
Ammonical Nitrogen	mg/L	27
Total Kjeldhal Nitrogen	mg/L	74
Oil & Grease	mg/L	0.2
Heavy Metal		
Copper	mg/L	BDL
Nickel	mg/L	BDL
Zinc	mg/L	<0.1
Cadmium	mg/L	BDL
Lead	mg/L	BDL
Total chromium	mg/L	BDL

BDL :

③

Below Detectable Limit.

The Central Pollution Control Board (CPCB) has issued water quality criteria for lakes and water bodies. The water quality in the lakes/water bodies is classified into A,B,C, D& E based on the water quality of the lake/water bodies. The classification 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 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 (Organised)

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

Further, the following observations were made during inspection:-

1. The Nagar Kurnool Municipality is constructing two STPs of capacity 2.3 MLD & 3.2 MLD, located near Bus depot, Nagar Kurnool.
2. The civil works of STP of capacity 2.3 MLD is completed. However, the erection of machineries of STP and sewer line connections to the STP are not completed.
3. The civil works of second STP of capacity 3.2 MLD is under progress.

The Respondent Board addressed a letter dated 25.06.2021 (**Annexure-II**) to the Municipal Commissioner, Nagar Kurnool Municipality to take necessary action for completion and operation of STPs to avoid joining of the sewage into the Lake.

Place: Hyderabad.

Date: 17.07.2021.


ENVIRONMENTAL ENGINEER

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ANNEXURE-I



TELANGANA STATE POLLUTION CONTROL BOARD
Paryavaran Bhavan, A-3, Industrial Estate, Sanathnagar, Hyderabad – 500 018
Ph: 040-23887500

CENTRAL LABORATORY

Analysis Report

Reg. No.SR/05/TSPCB/HO/R00/LAB/2021/4062
Collected on: 23/06/2021
Test method: Standard Methods of APHA, 23rd Edition
Issue date: 29/06/2021

Collected by: AES-2, RC, Hyderabad
Received on: 24/06/2021
Quantity of the sample: 1 Ltr. sample each
Page No: 1 of 1

Sample code : Sample details / collection point

6461 - Water sample collected from Kesari Samudram Lake .Nagarkurnool Mandal and District .

Parameters	Unit	Results
		6461
pH	-	8.51
Electrical conductivity	µS/cm	807
Dissolved oxygen	mg/L	4.9
Chemical Oxygen Demand	mg/L	44
BOD 3 at 27 ^o C	mg/L	10
Total Suspended Solids	mg/L	<5
Total Dissolved Solids	mg/L	489
Nitrates	mg/L	23
Boron	mg/L	BDL
Free Ammonia	mg/L	BDL
SAR	-	3.7
Total coliform	MPN/100ml	140
Fecal coliform	MPN/100ml	17
Heavy Metals		
Copper	mg/L	BDL
Nickel	mg/L	BDL
Zinc	mg/L	BDL
Cadmium	mg/L	<0.1
Lead	mg/L	BDL
Total Chromium	mg/L	BDL
CPCB water quality criteria class		D

Note: Results related to sample as received
BDL: Below Detectable Limit

Parameters	CPCB Water Quality Criteria				
	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 ^o 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 (Organised)

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

(Dr. M. S. Satyanarayana Rao)

Joint Chief Environmental Scientist(FAC)



TELANGANA STATE POLLUTION CONTROL BOARD
 Paryavaran Bhavan, A-3, Industrial Estate, Sanathnagar, Hyderabad – 500 018
 Ph: 040-23887500

CENTRAL LABORATORY

Analysis Report

Reg. No.SR/05/TSPCB/HO/R00/LAB/2021/4062
 Collected on: 23/06/2021
 Test method: Standard Methods of APHA, 23rd Edition
 Issue date: 29/06/2021

Collected by: AES-2, RO, Hyderabad
 Received on: 24/06/2021
 Quantity of the sample: 1 Ltr. sample each
 Page No: 1 of 1

Sample code : Sample details / collection point

6462 - Water sample collected from Inlet of Kesari Samudram Lake ,sewage from Telephone Exchange Colony, which is major sewage source .Nagarkurnool District .

Parameters	Unit	Results
		6462
pH	-	7.48
Electrical conductivity	µS/cm	2112
Total Suspended Solids	mg/L	62
Total Dissolved Solids	mg/L	1312
Chemical Oxygen Demand	mg/L	173
BOD 3 at 27°C	mg/L	54
Ammonical Nitrogen	mg/L	27
Total Kjeldhal Nitrogen	mg/L	74
Oil & Grease	mg/L	0.2
Heavy Metals		
Copper	mg/L	BDL
Nickel	mg/L	BDL
Zinc	mg/L	<0.1
Cadmium	mg/L	BDL
Lead	mg/L	BDL
Total Chromium	mg/L	BDL

Note: Results related to sample as received
 BDL: Below Detectable Limit


 (Dr. M. S. Satyanarayana Rao)
 Joint Chief Environmental Scientist(FAC)

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TELANGANA STATE POLLUTION CONTROL BOARD
Paryavaran Bhavan, A-3, Industrial Estate, Sanathnagar, Hyderabad – 500 018
Ph: 040-23887500

CENTRAL LABORATORY

Analysis Report

Reg. No. SR/05/TSPCB/HQ/R00/LAB/2021/4062
Collected on: 23/06/2021
Test method: Standard Methods of APHA, 23rd Edition
Issue date: 29/06/2021

Collected by: AES-2, RO, Hyderabad
Received on: 24/06/2021
Quantity of the sample: 1 Ltr. sample each
Page No: 1 of 1

Sample code : Sample details / collection point

6460 - Water sample collected from Sabaisab Kunta (Saddalsab Kunta) near to Naganool +
Nagarkurnool District .

Parameters	Unit	Results
		6460
pH	-	7.77
Electrical conductivity	µS/cm	2033
Dissolved oxygen	mg/L	4.5
Chemical Oxygen Demand	mg/L	81
BOD 3 at 27°C	mg/L	24
Total Suspended Solids	mg/L	47
Total Dissolved Solids	mg/L	1293
Nitrates	mg/L	64
Boron	mg/L	BDL
Free Ammonia	mg/L	0.14
SAR	-	6.2
Total coliform	MPN/100ml	170
Fecal coliform	MPN/100ml	33
Heavy Metals		
Copper	mg/L	BDL
Nickel	mg/L	BDL
Zinc	mg/L	0.38
Cadmium	mg/L	<0.1
Lead	mg/L	BDL
Total Chromium	mg/L	BDL
CPCB water quality criteria class		D

Note: Results related to sample as received
BDL: Below Detectable Limit

Parameters	CPCB Water Quality Criteria				
	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 (Organised)
- 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

(Dr. M. S. Satyanarayana Rao)
Joint Chief Environmental Scientist(FAC)



Lr.No. Legal/TSPCB/ROH/HYD/2021- 152

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Date:24.06.2021

To
The Municipal Commissioner.,
Nagarkurnool, Nagarkurnool District.

ANNEXURE - I

Sir,

Sub: TSPCB – RO – HYD – O.A No. 182 of 2020 filed by Dr. Nagam Janardhan Reddy & others before the Hon'ble National Green Tribunal, Southern Zone, Chennai –Compliance status on Construction of STPs – Requested – Reg.

- Ref:**
1. The mail received from the Board Officials on 18.03.2021.
 2. The Committee Meeting held on 25.11.2020.
 3. T.O Letter dated 22.03.2021
 4. Mail received from Board Office on 22.06.2021
 5. Inspection of the Board Officials on 23.06.2021.

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With reference 1st cited, O.A No. 182 of 2020 filed by Dr. Nagam Janardhan Reddy & others before the Hon'ble National Green Tribunal, Southern Zone, Chennai Original Application No.182 of 2020 was filed by Dr.Nagam Janardhan Reddy and others against the State of Telangana and others in Hon ble National Green Tribunal, South Zone, Chennai alleging that indiscriminate illegal constructions are being done by the persons by encroaching into the water bodies and flood plaina in Kesarisamudram Tank at Nagarkurnool, Tummala Kunta at Nellikonda, Puntala kunta and Saddalasaab Kunta in Naganool Village at Nagarkurnool Municipality in Nagarkurnool District in State of Telangana.

Vide reference 2nd cited , The Municipal Commisioner Nagarkurnool stated that the construction of 2 No of STPs (one is 2.3 MLD and other one is 3.2 MLD) will be completed by 31.03.2021.

Vide reference 3rd cited , The Board officials are visited along with AEE, Nagarkurnool Municipality and letter addressed to the Municipal Commissioner Nagarkurnool on completion of the construction of 2 No of STPs (one is 2.3 MLD and other one is 3.2 MLD).

Vide reference 4th cited , this office has received mail from Board office to submit action taken report in the matter .

Again, AES – II of this office has inspected along with AEE, Nagarkurnool Municipality on 23.06.2021and following observations were made .

1. The construction of STPs capacity 2.3 MLD & 3.2 MLD located at near Bus depot Nagarkurnool.
2. The STP Capacity of 2.3 MLD has completed and not erected machineries and sewer lines connections to the STP.
3. The another STP capacity with 3.2 MLD is under progress of the civil work.

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In view of the above, you are requested to take necessary action to completion and operation of STPs to avoid joining of the sewage into the lake.

This is submitted for kind information and necessary action

Yours faithfully,

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Enclosed: Analysis reports


ENVIRONMENTAL ENGINEER

ENVIRONMENTAL ENGINEER

Telangana State Pollution Control Board
Regional Office, Hyderabad
4th Floor, Podupu Bhavan,
1-2, ROAD, HYDERABAD-500017

Copy submitted to :

1. The SEE (legal) , Board Office, TSPCB, Sanathnagar, Hyderabad for kind information and necessary action.
2. The SEE (SWM) , Board Office, TSPCB, Sanathnagar, Hyderabad for kind information and necessary action.
3. The JCEE, Zonal Office, TSPCB, Begumpet, Hyderabad for kind information and necessary action.