

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL SOUTHERN ZONE BENCH  
AT CHENNAI**

**OA No 156 OF 2023**

**IN THE MATTER OF:**

**THOTA GANGA RAJU**

..... Applicant

**Vs**

**THE WATER RESOURCE DEPARTMENT AND OTHERS**

.... Respondents

**REPORT FILED BY THE APPCB 4th RESPONDENT**

**DATE- 23.09.2024**



**M/s MADHURI DONTI REDDY  
ADVOCATE**

**STANDING COUNSEL FOR GOVERNMENT OF ANDHRA PRADESH**

**A.P. POLLUTION CONTROL BOARD**

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BEFORE THE NATIONAL GREEN TRIBUNAL  
SOUTHERN ZONE, CHENNAI

Original Application No. 156 of 2023(SZ)

IN THE MATTER OF  
Thota Ganga Raju, Andhra Pradesh.

....Applicant(s)

Versus

The Government of Andhra Pradesh Rep. by its Principal Secretary,  
Andhra Pradesh and Ors.

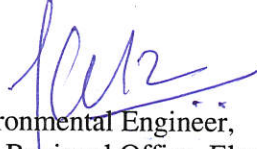
...Respondent(s)

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Place: Eluru.

Date: 21.09.2024

  
Environmental Engineer,  
APPCB, Regional Office, Eluru  
ENVIRONMENTAL ENGINEER  
ANDHRA PRADESH POLLUTION CONTROL BOARD  
REGIONAL OFFICE, ELURU.

**STATUS REPORT OF A.P. POLLUTION CONTROL BOARD IN THE MATTER OF O.A.No.156 of 2023 (SZ).**

1. The Original Application (O.A.) No.156 of 2023 has been registered in Hon'ble National Green Tribunal (NGT), Southern Bench, Chennai on representation of the Sri Thota Ganga Raju, Tundurru Village, Bhimavaram Mandal, West Godavari District regarding water pollution of Adavikodu Channel due to discharges of sewage & toilet waste of Srungavruksham Gram Panchayat, Palakoderu Mandal, West Godavari District through irrigation field Bhodhe/Pipe No.10 and illegal fish/prawn culture water.
2. The Hon'ble NGT (SZ) in its Order dt.10.10.2023 directed the Andhra Pradesh Pollution Control Board to inspect the in question and file a detailed report along with the remedial measures, if any, required. The APPCB Officials inspected the Adavikodu Irrigation Canal at Srungavruksham Village and its surroundings on 26.10.2023 and the APPCB report was filed in Hon'ble NGT (SZ) on 08.11.2023.
3. The Hon'ble NGT (SZ) heard the matter on 09.11.2023 and directed the other respondents to file their reports. Further, the Hon'ble NGT (SZ) heard the matter on 07.12.2023 and directed the respondents to file the reports.
4. The Hon'ble NGT (SZ) heard the matter latest on 21.08.2024 and the extract of the order is as follows:
  - I. The District Collector – West Godavari is yet to file his report.
  - II. The water analysis report by the Andhra Pradesh Pollution Control (APPCB) also is not before us.

The case is listed on 23.09.2024. The Copy of the order dt.21.08.2024 is enclosed as **Annexure -A**.

5. It is submitted that water samples were collected from following points on 26.10.2023 and analyzed by APPCB:
  - Water sample collected from Irrigation Bhodi No.10 at Railway Track, Srungavruksham Village (Sample Code: 744). (Water is being used for irrigation purpose)
  - Water Sample collected from Irrigation Bhodhi backside of Kanakadurgamma Temple, Srungavruksham (Sample Code: 745). (Water is being used for irrigation purpose).
  - Water Sample collected from Irrigation Bhodhi No.10, Near Adavikodu Channel, Srungavruksham (Before joining into Adavikodu Channel) (Sample code: 746). (Water is being used for both drinking & irrigation purpose).
  - Water sample collected from Tundurru Branch Channel of Adavikodu Channel, Srungavruksham (Sample code: 747). (Water is being used for both drinking purpose).


The copy of the water analysis report dt.10.11.2023 is enclosed as **Annexure - B**.
6. As per water analysis report dt.10.11.2023, the water parameters are comes under the Class 'C' as per surface water quality criteria for different uses specified by CPCB, 1979 & Bureau of Indian Standards (BIS), 1982. In case of class C water is classified as drinking water source with conventional treatment followed by disinfection. Sample code: 746 water is being used for both drinking & irrigation purpose and Sample code 747 water is being only used for drinking water purpose. The CPCB & Bureau of Indian Standards (BIS) document is enclosed as **Annexure -C**. However, the following remedial measures are suggested for supply safe drinking water to the Public.
  - I. It is submitted that the Panchayat Raj Department may be directed to isolate the sewage contamination to drinking water source. The Rural Water Supply (RWS) under Panchayat Raj Department shall provide safe pipeline network for drawl of drinking water to supply public after treatment.

  
 ENVIRONMENTAL ENGINEER  
 ANDHRA PRADESH POLLUTION CONTROL BOARD  
 REGIONAL OFFICE, ELURU.

- II. The Panchayat Secretary, Srungavruksham Village shall take necessary action such as stipulating condition that there shall not be allowed discharge of sewage into nearby abutting canals while issuing Panchayat permissions for new construction of houses. The existing sewage discharge pipelines shall be routed to septic tanks as a preventive measure.
- III. The sewage of Srungavruksham Village and discharges of fish/prawn ponds shall be reduced or controlled by diverting them to the nearby notified drains after treatment to avoid water pollution of Tundurru Branch Channel of Adavikodu Channel.
7. With respect to aquaculture disposal, it is submitted that the water remains after harvest of aqua culture & shrimp culture are disposing as recommended by APSADA Act and guidelines of Ministry of Agriculture, GoI in accordance with A.P. Water Resource Department. It is suggested that the water resource department shall facilitate dedicated drain system without contamination of drinking water source.
8. Further submitted that no latest water samples are collected after 26.10.2023 due to floods in the West Godavari District.

Submitted.

Place: Eluru.  
Date: 21.09.2024

  
Environmental Engineer,  
APPCB, Regional Office, Eluru  
ENVIRONMENTAL ENGINEER  
ANDHRA PRADESH POLLUTION CONTROL BOARD  
REGIONAL OFFICE, ELURU.

**Item No.11:-****BEFORE THE NATIONAL GREEN TRIBUNAL  
SOUTHERN ZONE, CHENNAI**

(Through Video Conference)

**Original Application No.156 of 2023 (SZ)**

IN THE MATTER OF:

Thota Ganga Raju,  
Andhra Pradesh.

...Applicant(s)

*With*

The Government of Andhra Pradesh  
Rep. by its Principal Secretary,  
Andhra Pradesh and Ors.

... Respondent(s)

Date of hearing: 21.08.2024.

**CORAM:**

**HON'BLE SMT. JUSTICE PUSHPA SATHYANARAYANA, JUDICIAL MEMBER**

**HON'BLE Dr. SATYAGOPAL KORLAPATI, EXPERT MEMBER**

For Applicant(s): Mr. Thota Ganga Raju (*Party in Person*)

For Respondent(s): Mrs. Madhuri Donti Reddy for R1 to R6.

**ORDER**

1. The District Collector – West Godavari is yet to file his report. The water analysis report by the Andhra Pradesh Pollution Control (APPCB) also is not before us.
2. So, for filing of the same, let the matter be listed on **23.09.2024**.

Sd/-

**Smt. Justice Pushpa Sathyanarayana, JM**

Sd/-

**Dr. Satyagopal Korlapati, EM**

O.A. No.156/2023 (SZ)  
21<sup>st</sup> August, 2024. AD.





Report No: VSP202310744 to 747

Date: 10<sup>th</sup> day of November, 2023

**ANALYSIS REPORT**

Sample No. : VSP202310744 to 747

Sample Location/Address : Sample collected from Irrigation Bhodi Srungavruksham, West Godavari District

Sample Source : VSP202310744: Water sample collected from irrigation Bhodi No.10 at Railway Track, Srungavruksham (Water is being used for irrigation)  
VSP202310745: Water sample collected from irrigation Bhodi back side of Kanaka Durgamma Temple, Srungavruksham (Water is being used for irrigation)  
VSP202310746: Water sample collected from irrigation Bhodi No.10, near Adavikodu Channel, Srungavruksham (Bore joining into Adavikodu Channel) (Water is being used both drinking & irrigation)  
VSP202310747: Water sample collected from Adavikodu Channel, Srungavruksham (Water is being used for Drinking water)

Sample collected on : 26.10.2023

Sample received on : 28.10.2023

Sample collected by : AEE, Regional Office, Eluru

Report issued on : 10.11.2023

It is to certify that the aforementioned samples were analyzed from 28.10.2023 to 10.11.2023 and declare the analysis results as follows:

S. No.	Parameter	Sample codes & Analysis Results		Test Method
		744	745	
1.	pH	7.40	7.44	APHA (24 <sup>th</sup> Edition, 2023) 4500-H+B: Page No.473 to 478.
2.	Electrical Conductivity (as $\mu\text{S}/\text{cm}$ )	2650	1320	APHA (24 <sup>th</sup> Edition, 2023) 2510- B: Page No.134 & 135.
3.	Total Suspended Solids (TSS)	11	10	APHA (24 <sup>th</sup> Edition, 2023) 2540- D: Page No. 146 & 147
4.	Total Dissolved Solids (TDS)	1768	880	APHA (24 <sup>th</sup> Edition, 2023) 2540- C: Page No 145
5.	Chemical Oxygen Demand (COD)	32	20	APHA (24 <sup>th</sup> Edition, 2023) 5220- B: Page No.544 & 545.
6.	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	7.5	4.6	IS 3025 (Part 44): 1993 (Reaffirmed 2014)
7.	Chloride (as Cl <sup>-</sup> )	474.5	225.0	APHA (24 <sup>th</sup> Edition, 2023) 4500- Cl- B: Page No.340 & 341
8.	Total Hardness (as CaCO <sub>3</sub> )	464	252	APHA (24 <sup>th</sup> Edition, 2023) 2340- C: Page No. 124 to 126.



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 Visakhapatnam - 530018. Ph : 0891 - 2719380/481



S. No.	Parameter	Sample codes & Analysis Results		Test Method
		744	745	
9.	Total Alkalinity(as CaCO <sub>3</sub> )	452	208	APHA (24th Edition, 2023) 2320- B: Page No. 112 to 114.
10.	Ortho Phosphate (as PO <sub>4</sub> <sup>3-</sup> )	0.17	0.04	APHA (24th Edition,2023) 4500- P D: Page No. 485 & 486
11.	Fluoride (as F <sup>-</sup> )	0.90	0.52	APHA (24th Edition, 2023) 4500-F-B&D: Page No.397 to 401
12.	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	168.7	99.5	APHA (24th Edition,2023) 4500-SO42- E: Page No. 505 & 506
13.	Calcium (as Ca)	68.8	43.2	APHA (24th Edition, 2023) 3500-Ca-B: Page No.254 & 255
14.	Magnesium (as Mg)	70.95	34.99	APHA (24th Edition,2023) 3500-Mg-B, Page No.274
15.	Ammonical Nitrogen (as NH <sub>3</sub> -N)	2.90	2.01	APHA (24th Edition, 2023) 4500-NH3- F: Page No. 429 to 430
16.	Nitrate (as NO <sub>3</sub> )	26.0	8.9	APHA (24th Edition,2023) 4500-NO3- B: Page No. 434 & 435
17.	Nitrite Nitrogen (as NO <sub>2</sub> -N)	0.12	0.25	APHA (24th Edition, 2023) 4500-NO2- B: Page No. 449 to 451
18.	Sodium (as Na <sup>+</sup> )	333.3	160.78	APHA (24th Edition, 2023) 3500- Na B: Page No.290 to 292
19.	Potassium (as K <sup>+</sup> )	64.42	13.03	APHA (24th Edition, 2023) 3500- K B: Page No. 279 to 280
20.	% Na	57.05	56.58	
21.	SAR	6.73	4.41	
22.	Chromium (as Cr)	<0.001	<0.001	APHA (24th Edition, 2023) 3125 - B: Page No.233 to 242
23.	Manganese (as Mn)	<0.001	<0.001	
24.	Iron (as Fe)	0.071	0.045	
25.	Nickel (as Ni)	<0.001	<0.001	
26.	Copper (as Cu)	<0.001	<0.001	
27.	Zinc (as Zn)	<0.001	<0.001	
28.	Arsenic (as As)	0.004	0.001	
29.	Cadmium (as Cd)	<0.001	<0.001	
30.	Lead (as Pb)	<0.001	<0.001	



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S. No.	Parameter	Sample codes & Analysis Results		Test Method
		746	747	
1.	pH	7.34	7.46	APHA (24 <sup>th</sup> Edition, 2023) 4500-H+B: Page No. 473 to 478.
2.	Electrical Conductivity (as $\mu\text{S/cm}$ )	1217	1945	APHA (24 <sup>th</sup> Edition, 2023) 2510- B: Page No. 134 & 135.
3.	Total Suspended Solids (TSS)	20	35	APHA (24 <sup>th</sup> Edition, 2023) 2540- D: Page No. 146 & 147
4.	Total Dissolved Solids (TDS)	808	1292	APHA (24 <sup>th</sup> Edition, 2023) 2540- C: Page No 145
5.	Chemical Oxygen Demand	24	36	APHA (24 <sup>th</sup> Edition, 2023) 5220- B: Page No. 544 & 545.
6.	Biochemical Oxygen Demand	5.2	8.0	IS 3025 (Part 44): 1993 (Reaffirmed 2014)
7.	Chloride (as $\text{Cl}^-$ )	200.5	342.4	APHA (24 <sup>th</sup> Edition, 2023) 4500- Cl- B: Page No. 340 & 341
8.	Total Hardness (as $\text{CaCO}_3$ )	248	352	APHA (24 <sup>th</sup> Edition, 2023) 2340- C: Page No. 124 to 126.
9.	Total Alkalinity (as $\text{CaCO}_3$ )	256	364	APHA (24 <sup>th</sup> Edition, 2023) 2320- B: Page No. 112 to 114.
10.	Ortho Phosphate (as $\text{PO}_4^{3-}$ )	0.32	0.38	APHA (24 <sup>th</sup> Edition, 2023) 4500- P D: Page No. 485 & 486
11.	Fluoride (as $\text{F}^-$ )	0.51	0.46	APHA (24 <sup>th</sup> Edition, 2023) 4500-F- B&D: Page No. 397 to 401
12.	Sulphate (as $\text{SO}_4^{2-}$ )	58.9	97.7	APHA (24 <sup>th</sup> Edition, 2023) 4500-SO42- E: Page No. 505 & 506
13.	Calcium (as Ca)	38.4	54.4	APHA (24 <sup>th</sup> Edition, 2023) 3500-Ca-B: Page No. 254 & 255
14.	Magnesium (as Mg)	36.93	52.48	APHA (24 <sup>th</sup> Edition, 2023) 3500-Mg- B, Page No. 274
15.	Ammonical Nitrogen (as $\text{NH}_3\text{-N}$ )	0.10	0.94	APHA (24 <sup>th</sup> Edition, 2023) 4500-NH3- F: Page No. 429 to 430
16.	Nitrate (as $\text{NO}_3$ )	11.8	16.3	APHA (24 <sup>th</sup> Edition, 2023) 4500-NO3- B: Page No. 434 & 435
17.	Nitrite Nitrogen (as $\text{NO}_2\text{-N}$ )	BDL	0.07	APHA (24 <sup>th</sup> Edition, 2023) 4500-NO2- B: Page No. 449 to 451
18.	Sodium (as $\text{Na}^{++}$ )	122.44	215.94	APHA (24 <sup>th</sup> Edition, 2023) 3500- Na B: Page No. 290 to 292
19.	Potassium (as $\text{K}^{++}$ )	33.74	59.64	APHA (24 <sup>th</sup> Edition, 2023) 3500- K B: Page No. 279 to 280
20.	% Na	47.80	51.87	
21.	SAR	3.38	4.95	



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S. No.	Parameter	Sample codes & Analysis Results		Test Method
		746	747	
22.	Chromium (as Cr)	<0.001	<0.001	APHA (24th Edition, 2023) 3125 - B: Page No.233 to 242
23.	Manganese (as Mn)	<0.001	0.002	
24.	Iron (as Fe)	0.040	0.060	
25.	Nickel (as Ni)	<0.001	<0.001	
26.	Copper (as Cu)	<0.001	<0.001	
27.	Zinc (as Zn)	<0.001	<0.001	
28.	Arsenic (as As)	0.001	0.001	
29.	Cadmium (as Cd)	<0.001	<0.001	
30.	Lead (as Pb)	<0.001	<0.001	

Note: -1. All values are expressed in mg/L except pH  
 2. Results are related to sample as received and tested

Authorized Signatory

STATE BOARD ANALYST  
 (M. RAVI)

Senior Environmental Scientist  
 Zonal Laboratory, Visakhapatnam.



**Surface water quality criteria for different uses  
(specified by CPCB, 1979 and the Bureau of Indian Standards, 1982)**

S. No	Water quality parameter	Characteristic of water body				
		A *	B *	C *	D *	E *
1	Dissolved Oxygen (DO) mg/l (minimum)	6	5	4	4	3
2	Biochemical Oxygen Demand (BOD), mg/l (max)	2	3	3	-	-
3	Total Coliform organisms ** MPN/100ml (max)	50 **	500	500	-	-
4	Total Dissolved Solids (TDS) mg/l (max)	500	-	1500	-	2100
5	Chlorides (as Cl <sup>-</sup> ) mg/l (max)	250	-	600	-	600
6	Colour, Hazen units (max)	-	10	300	300	-
7	Sodium Absorption Ratio (max)	-	-	-	-	20
8	Boron (as B), mg/l (max)	-	-	-	-	-
9	Sulphates (as SO <sub>4</sub> <sup>2-</sup> ), mg/l (max)	400	-	400	-	1000
10	Nitrates (as NO <sub>3</sub> <sup>-</sup> ) mg/l (max)	20	-	50	-	-
11	Free Ammonia (as NH <sub>3</sub> ) mg/l (max)	-	-	-	1.2	-
12	Conductivity at 25°C micro mhos/cm (max)	-	-	-	1000	2500
13	pH value	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.0-8.5
14	Arsenic (as As), mg/l (max)	0.05	0.2	0.2	-	-
15	Iron (as Fe), mg/l (max)	0.3	-	-	0.5	-
16	Fluoride (as F), mg/l (max)	1.5	1.5	1.5	-	-
17	Lead (as Pb), mg/l (max)	0.1	-	0.1	-	-

Note: \* Classes of water use:

- A Drinking water source without conventional treatment but after disinfection
- B Out door bathing (organised)
- C Drinking water source with conventional treatment followed by disinfection.
- D Propagation of wild life, fisheries.
- E Irrigation, industrial cooling, controlled waste disposal.

\*\* If the coliform is found to be more than the prescribed tolerance limits, the criteria for coliforms shall be satisfied if not more than 20 percent of samples show more than the tolerance limits specified and not more than 5 percent of samples show values more than 4 times the tolerance limits. There should be no visible discharge of domestic and industrial waste into class "A" waters. In case of classes "B" and "C" the discharge shall be so regulated / treated as to ensure maintenance of the stream standards.