

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

OA No 14 OF 2021

IN THE MATTER OF:

**TRIBUNAL ON ITS OWN MOTION SUO MOTU BASED ON NEWS ITEM IN E-MAGAZINE, BBC DT: 21.12.2020
WATER POLLUTION: WILL VIZAG BE ANOTHER ELURU**

..... Applicant

Vs

THE CHIEF SECRETARY TO THE GOVT OF ANDHRA PRADESH GUNTUR AND OTHERS.

.... Respondents

REPORT FILED BY THE APPCB 6th RESPONDENT

DATE- 01.03.2024



**M/s MADHURI DONTI REDDY
ADVOCATE**

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BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,

SOUTHERN BENCH, CHENNAI

Original Application No. 14 of 2021(SZ)

In the matter of:

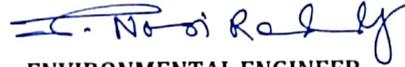
In Re: "Water Pollution: will Vizag be another Eluru".

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Dt.01.03.2024

Place: Visakhapatnam



ENVIRONMENTAL ENGINEER

AP POLLUTION CONTROL BOARD,

REGIONAL OFFICE, VISAKHAPATNAM

Environmental Engineer
A.P. Pollution Control Board
Regional Office, Visakhapatnam

Report submitted by Andhra Pradesh Pollution Control Board in O.A No 14 of 2021(SZ) as Suo-motu based on E - magazine, BBC, 21st December 2020 on "Water Pollution: will Vizag be another Eluru"

1. The Original Application (O.A.) No. 14 of 2021(SZ) was suo-motu registered by the Hon'ble National Green Tribunal (NGT), Southern Zone (SZ), Chennai on the basis of reports published in E - magazine, BBC, 21st December 2020 on "Water Pollution: will Vizag be another Eluru" on the allegations that water pollution in Meghadrigedda is causing concern to the people of Visakhapatnam, water supplied by Greater Visakhapatnam Municipal Corporation (GVMC) is contaminated in many places.
2. It is submitted that the main sources of water for the people of Visakhapatnam are from Meghadrigedda Reservoir, Mudasarlova Reservoir, Raiwada Reservoir, Tatipudi reservoir and Gambhiramedda reservoir.
3. The Hon'ble Tribunal in its order dated 26.10.2021 directed the Andhra Pradesh Pollution Control Board (APPCB) to submit report on quality of the water and the result of the analysis to come to conclusion regarding the nature of quality of water and whether water is contaminated or not, if so what are the remedial measures to be taken. Also, directed to weather the sediments from the reservoir have been collected and tested so as to ascertain as to whether there was any possibility of industrial effluent being mixed or drained in the reservoir.
4. As per the direction the Hon'ble NGT, the APPCB carried out water sampling in following 5 No.s reservoirs supplying drinking water to GVMC and analysed the drinking water parameters as per prescribed standards of Bureau of Indian Standards (BIS) IS 10500: 2012 drinking water
 - i. Meghadrigedda Reservoir
 - ii. Mudasarlova Reservoir
 - iii. Gambhiramedda Reservoir
 - iv. Raiwada Reservoir
 - v. Thatipudi Reservoir
5. The APPCB collected sediment samples from the above reservoirs and inlet drains and analysed for metals. As per the analysis, the concentrations of Chromium, Copper, Zinc, Arsenic, Cadmium, Lead, Mercury, Iron, Manganese and Nickel in the sediments were below Canadian Sediment Quality guidelines for the protection of aquatic life, CCME, 2001.
6. The APPCB collected ground water samples on 29.11.2021 and 30.11.2021 from nearby bore wells of 5 no. reservoirs and analysed the drinking water parameters as per prescribed standards of Bureau of Indian Standards (BIS) IS 10500: 2012 drinking water.
7. The APPCB submitted report before the Hon'ble NGT, Chennai on 04.05.2022 submitting that as per the analysis results of water quality of reservoirs and ground water samples near reservoirs are meeting the prescribed BIS Standards which is fit for drinking purpose. The sediment quality of reservoirs for metals is good as per Canadian Sediment Quality guidelines for the protection of aquatic life, CCME, 2001 and there is no need for remediation of 5 No.s reservoirs supplying the drinking water to GVMC.
8. It is submitted that under National Water Monitoring Programme (NWMP) the APPCB is collecting water samples from Meghadrigedda Reservoir on monthly basis and analyzed for physico chemical (16 parameters), Bacteriological (2 parameters), heavy metals (10 parameters). As per the analysis of the samples, it is observed that the physico chemical parameters and heavy metals are within the prescribed standards of drinking water as per

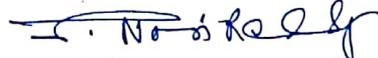
Bureau of Indian Standards (BIS) IS 10500: 2012. It is common phenomenon finding total coliforms in reservoirs storing surface water. All Municipalities employ disinfection through chlorination to make water free from coliforms and pathogens for supply of safe drinking water to public. Hence, the water of Meghadrigedda Reservoir is fit for drinking purpose after disinfection. The analysis also indicates no contribution of industrial wastewater contamination. Copy of consolidated analysis report of Meghadrigedda Reservoir is submitted as Annexure.

9. The GVMC is also drawing water from the remaining 4 reservoirs and supplying to the public in Visakhapatnam after pretreatment.

10. This report is submitted for kind consideration. The APPCB will abide by all such directions as the Hon'ble Tribunal may deem fit and appropriate.

Place: Visakhapatnam

Dt: 01.03.2024



**ENVIRONMENTAL ENGINEER
AP POLLUTION CONTROL BOARD,
REGIONAL OFFICE, VISAKHAPATNAM**

Environmental Engineer
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Consolidated analysis report of Meghadrigerda Reservoir for the year 2023

Month	pH	Conductivity (mS/cm)	DO (mg/L)	TDS (mg/L)	BOD (mg/L)	Chloride (mg/L)	Total Alk. (mg/L)	Hardness (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Nitrite-N (mg/L)	Ammonia-N (mg/L)	Potassium (mg/L)	Sulphate (mg/L)	Fluoride (mg/L)
Jan-2023	8.31	559	6.9	358	3.3	57.85	176	152	76	76	BDL	BDL	5.6	12.71	BDL
Feb-2023	8.21	540	6.1	340	2.6	65.56	156	148	64	84	0.01	BDL	5.6	9.93	0.29
Mar-2023	7.80	555	5.8	410	2.6	140	172	160	84	76	0.03	0.21	6.33	18.83	0.33
Apr-2023	7.39	555	6.6	352	1.4	66.50	164	164	48	94	0.29	BDL	5.13	17.40	0.63
May-2023	8.42	516	8.1	325	2.8	74.97	132	158	70	88	0.01	0.05	5.79	12.10	0.54
Jun-2023	8.42	516	8.1	325	2.8	74.97	132	158	70	88	0.01	0.05	5.79	12.10	0.54
July-2023	6.86	476.0	5.8	310	2.8	75	136	156	80	76	0.01	0.02	4.00	12.20	0.72
Aug-2023	7.93	507.0	6.1	320	2.3	65	116	150	70	80	0.04	0.3	4.71	27.47	0.86
Sept-2023	8.38	493	6.0	332	2.0	70.0	128	120.0	48.0	72	BDL	BDL	5.52	21.46	0.62
Oct-2023	7.97	548.0	5.8	360	2.1	80	168	160	52	95	0.06	BDL	5.79	18.23	0.38
Nov-2023	8.48	520	6.0	340	2.0	75	144	144	52	92.00	0.04	BDL	14.28	19.55	0.81
Dec-2023	8.03	573	6.5	370	1.8	80.0	140.0	160	80	80.00	0.01	BDL	8.02	29.91	0.46
Drinking Water Specification: IS: 10500: 2012 Requirement															
Requirement (Acceptable Limit)	6.5-8.5	-	-	500 mg/l	-	250 mg/l	200 mg/l	200 mg/l	75 mg/l	30 mg/l	45 mg/l	--	--	200 mg/l	1.0 mg/l
Permissible Limit in the absence of alternate source	No Relaxation	-	-	2000 mg/l	-	1000 mg/l	600 mg/l	600 mg/l	200 mg/l	100 mg/l	No Relaxation	--	--	400 mg/l	1.5 mg/l

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 Environmental Engineer
 A.P. Pollution Control Board
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Consolidated analysis report of Meghadrigedda Reservoir for the year 2023

Month	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)	Cr	Mn	Fe	Ni	Cu	Zn	As	Cd	Pb	Hg
Jan-2023	7	150	--	--	--	--	--	--	--	--	--	--
Feb-2023	7	150	--	--	--	--	--	--	--	--	--	--
Mar-2023	11	210	--	--	--	--	--	--	--	--	--	--
Apr-2023	11	240	<0.0001	0.0005	0.0169	0.0004	0.0001	0.0022	0.0015	<0.0001	0.0001	<0.0001
May-2023	7	240	--	--	--	--	--	--	--	--	--	--
Jun-2023	7	240	--	--	--	--	--	--	--	--	--	--
July-2023	4.0	210.0	--	--	--	--	--	--	--	--	--	--
Aug-2023	7.0	150.0	--	--	--	--	--	--	--	--	--	--
Sept-2023	7	150	--	--	--	--	--	--	--	--	--	--
Oct-2023	7	120	0.008	0.002	0.045	0.002	0.002	0.001	0.002	<0.001	<0.001	0.0001
Nov-2023	9	460	--	--	--	--	--	--	--	--	--	--
Dec-2023	9	240	--	--	--	--	--	--	--	--	--	--
Drinking Water Specification: IS: 10500: 2012 Requirement												
Requirement (Acceptable Limit)	-	Shall not be detectable in any 100 ml sample	0.05 mg/l	0.1 mg/l	0.3 mg/l	0.02 mg/l	0.05 mg/l	5 mg/l	0.01 mg/l	0.003 mg/l	0.01 mg/l	0.001 mg/l
Permissible Limit in the absence of alternate source	-	-	No Relaxation	0.3 mg/l	No Relaxation	No Relaxation	1.5 mg/l	15 mg/l	0.05 mg/l	No Relaxation	No Relaxation	No Relaxation

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