

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
SOUTH ZONE, CHENNAI
ORIGINAL APPLICATION NO.297 OF 2024 (SZ)

IN THE MATTER OF:

Tribunal on its own motion Suo Motu
Based on the news item in The Times
of India, dt. 22.09.2024 title "Sakhi
Lake under threat chokes on pharma
waste". With The Telangana SPCB,
Through its Member Secretary,
Hyderabad and Ors.

-VS-

The Telangana SPCB,
Through its Member Secretary,
Hyderabad and Ors.

...Respondent(s)

REPORT OF THE DISTRICT COLLECTOR, SANGAREDDY (R-4)

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Place: Chennai

Date: 28.08.2025

Mrs. H. Yasmmeen Ali,
Standing counsel for 4TH Respondent.

**REPORT OF DISTRICT COLLECTOR, SANGAREDDY DISTRICT
(RESPONDENT NO. 4)**

- 1) It is respectfully submitted that, the Hon'ble National Green Tribunal (SZ), Chennai in its order dated 05.02.2025 in O.A.No. 297 of 2024 passed orders directing the District Collector, Sangareddy to submit the report on Suo Motu registered by the Principal Bench of the National Green Tribunal, New Delhi as Original Application No.1213 of 2024(PB) based on the News item titled "News Item titled **“Sakhi Lake under threat chokes on pharma waste”** appearing in the Times of India, dated 22.09.2024 which has been transferred to Southern Bench of Hon'ble National Green Tribunal.
- 2) Further it is to submit that, the Hon'ble NGT (SZ), Chennai has issued the order as follows.
 1. The report dated 21.11.2024 of the Telangana State Pollution Control Board is filed.
 2. As the HMWSSB and the Deputy Municipal Commissioner, Serilingampally Zone, RC Puram, Patancheru, Sangareddy are necessary parties to this proceeding, we Suo Motu implead them as additional Respondents No.5 and 6 respectively.
 3. The Registry is directed to carry out the amendment in the cause title.
 4. Let notice be issued to the newly added respondents through the Tribunal. The learned counsel Ms. E. Niveditha representing Mrs. H. Yasmeen Ali accepts notice on behalf of Respondents No.5 and 6,
 5. Post the matter on **26.03.2025**.
- 3) It is to submit that, accordingly, the Environmental Engineer, TG Pollution Control Board, Regional Office-1, Sangareddy has been



District Collector,
Sangareddy

requested to enquire into the matter and submit a detailed report in order to file the report to the Hon'ble NGT, Chennai.

- 4) It is respectfully submit that, the Environmental Engineer, TG Pollution Control Board, Regional Office-1, Sangareddy vide Gen/PCB/RO-I:SRD/2025-1062, Dt: 25.03.2025 has submitted the report as follows.
1. Saki tank, also known as Patanchakki tank and is located at Sy.No.615, Patancheru (V) & (M), Sangareddy District and (17°31'7.724"N 78°15'54.34"E) spread over in an area of 135 acres (full tank level area).
 2. The tank is surrounded by Shantinagar colony, Sri Nagar colony & M/s. International Crop Research Institute for Semi-Arid Tropics (ICRISAT) on East side, bund followed by industries on West side (downstream of water body), Shanthinagar colony & NH-65 on North side and open lands on South side.
 3. During the inspection on 20.11.2024, it was observed that no industries are located in the catchment area of the tank and no effluent is joining the tank as the industries are located downstream of the tank. M/s. Asian Paints, a major paint industry, which is a Zero Liquid Discharge unit and 2 No's of Ready Mix Concrete categorized under Green category are located in the downstream of the tank. It is also to submit that no pharmaceutical industries are located in the vicinity of the lake.
 4. Residential colonies named Shantinagar Colony & Sri Nagar Colony are located in the catchment area of the tank and the HMWS&SB has provided box drain for preventing the sewage from entering the tank but still sewage is joining the tank from the South-East section of the upstream colonies leading to eutrophication of tank. Notice was issued to the General Manager (Engineering), HMWS&SB for taking necessary action to prevent the sewage from entering the tank. A copy of Notice is enclosed as ANNEXURE-I.
 5. Dumping of Municipal Solid Waste (MSW) was also observed at the Nimajjan ghat provided at the tank. A notice was issued to the Deputy



District Collector,
Sangareddy

Municipal Commissioner, RC Puram for dumping the MSW at the tank. A copy of notice is enclosed as ANNEXURE-II.

6. The TGPCB has been monitoring the water quality of Saki tank every month under National Water Quality Monitoring Programme. As per the monthly water quality reports of the tank for the period Jan 2021 to Aug 2024, the water quality is falling under Class-D as per the CPCB Water Quality Criteria i.e., the water body is best suitable for Propagation of Wildlife and Fisheries. The monthly reports for the period Jan 2021 to Aug 2024 are enclosed as ANNEXURE-III.
7. As the industries are located in the downstream of the Lake and not in the catchment area of the Lake, there is no possibility for the industrial effluents to join the water body and the major source for eutrophication of Lake is sewage and surface run off from the upstream residential colonies.
8. As per the analysis reports for the period Jan 2021 to Aug 2024, the Dissolved Oxygen values were in the range of 5.2 mg/l to 7.2 mg/l, Chemical Oxygen Demand was in the range of 30 mg/l to 56 mg/l, Total Dissolved Solids was in the range of 460 mg/l to 716 mg/l, Biological Oxygen Demand was in the range of 2.7. mg/l to 7.0 mg/l. From these values, it is evident that no industrial effluents are joining the water body.
9. Further it is respectfully submit that, the Environmental Engineer, PCB, RO-1, Sangareddy has further reported that, the untreated sewage entering from residential colonies (Shantinagar Colony and Srinagar Colony) from South-East direction located in the catchment area has to be diverted (or) treated in Sewage Treatment Plant (STP) before discharging into Sakhi Lake.

Place: Sangareddy

Date: 25.03.2025


District Collector,
Sangareddy



TELANGANA POLLUTION CONTROL BOARD

Regional Office – I: Sangareddy
5-1-28, Shantinagar, Sangareddy District.

Geeta Sapare
Environmental Engineer

Ph.No.08455-297799, 276795
Email: ee-mdk1-tspcb@telangana.gov.in

Lr. No. Gen/PCB/RO-I:SRD/2025-1062

Date: 25.03.2025

To
The District Collector,
Sangareddy

Madam,

Sub: TGPCB – RO-I-SRD - Hon'ble NGT, New Delhi – Sangareddy District - Suo Motu Original Application No. 1213 of 2024 based on the News item titled "News Item titled "Sakhi Lake under threat chokes on pharma waste" appearing in the Times of India, dated 22.09.2024 – Report submitted - Reg.

Ref: The District Collector, Sangareddy, Lr. No. D1/849/2025, Dt: 24.3.2025.

With reference to the above, a report of Telangana Pollution Control Board (Respondent No.1) in O.A. No. 1213 of 2024 registered suo motu by the Hon'ble NGT, Principal Bench, New Delhi based on the News item titled "News Item titled "Sakhi Lake under threat chokes on pharma waste" appearing in the Times of India, dated 22.09.2024 is submitted for information and necessary action in the matter.

Geeta Sapare
ENVIRONMENTAL ENGINEER
Environmental Engineer
T.G. Pollution Control Board
Regional Office-1, SANGAREDDY

Put up
D1

(Signature)
25/3/25

Report of the Telangana Pollution Control Board (Respondent No.1) in OA No. 1213 of 2024 registered SuoMotu by the Hon'ble NGT, Principal Bench, New Delhi based on the News item titled "Sakhi Lake under threat chokes on Pharma Waste" appearing in the Times of India dated 22.09.2024.

It is to submit that an Original Application was registered Suo Motu by the Hon'ble NGT, Principal Bench, New Delhi vide OA No. 1213 of 2024 based on the News item titled "Sakhi Lake under threat chokes on Pharma Waste" appearing in the Times of India dated 22.09.2024.

The news item relates to the alarming pollution levels at Sakhi Lake in Hyderabad, primarily due to the discharge of pharmaceutical waste from nearby industries, which has led to a significant decline in water quality. This pollution is primarily attributed to nearby pharmaceutical industries that discharge their waste into the lake. The polluted water poses serious health risks to the local population, including skin diseases and other health issues related to exposure to toxic chemicals. It is further alleged that despite previous warnings and reports, effective measures to curb the pollution have not been implemented.

The Hon'ble NGT, New Delhi impleaded the TGPCB as one of the respondents and transferred the OA to the Hon'ble NGT, Southern Zone, Chennai directing to submit reply listed the case on 25.11.2024 before the Hon'ble NGT, Chennai.

In this regard, the following is submitted: -

1. Saki tank, also known as Patanchakki tank and is located at Sy.No.615, Patancheru(V&M), Sangareddy district and (17°31'7.724"N 78°15'54.34"E) spread over in an area of 135 acres (full tank level area).
2. The tank is surrounded by Shantinagar colony, Sri Nagar colony & M/s. International Crop Research Institute for Semi-Arid Tropics (ICRISAT) on East side, bund followed by industries on West side (downstream of water body), Shanthinagar colony & NH-65 on North side and open lands on South side.
3. During the inspection on 20.11.2024, it was observed that no industries are located in the catchment area of the tank and no effluent is joining the tank as the industries are located downstream of the tank. M/s. Asian Paints, a major paint industry, which is a Zero Liquid Discharge unit and 2 No's of Ready Mix Concrete categorized under Green category are located in the downstream of the tank. It is also to submit that no pharmaceutical industries are located in the vicinity of the lake.
4. Residential colonies named Shantinagar Colony & Sri Nagar Colony are located in the catchment area of the tank and the HMWS&SB has provided box drain for preventing the sewage from entering the tank but still sewage is joining the tank from the South-East section of the upstream colonies leading to eutrophication of tank. Notice was issued to the General Manager (Engineering), HMWS&SB for taking necessary action to prevent the sewage from entering the tank. A copy of Notice is enclosed as **ANNEXURE-I**.

5. Dumping of Municipal Solid Waste (MSW) was also observed at the Nimajjan ghat provided at the tank. A notice was issued to the Deputy Municipal Commissioner, RC Puram for dumping the MSW at the tank. A copy of notice is enclosed as **ANNEXURE-II**.
6. The TGPCB has been monitoring the water quality of Saki tank every month under National Water Quality Monitoring Programme. As per the monthly water quality reports of the tank for the period Jan'2021 to Aug'2024, the water quality is falling under **Class-D** as per the CPCB Water Quality Criteria i.e., the water body is best suitable for Propagation of Wildlife and Fisheries. The monthly reports for the period Jan'2021 to Aug'2024 are enclosed as **ANNEXURE-III**.
7. As the industries are located in the downstream of the Lake and not in the catchment area of the Lake, there is no possibility for the industrial effluents to join the water body and the major source for eutrophication of Lake is sewage and surface run off from the upstream residential colonies.
8. As per the analysis reports for the period Jan'2021 to Aug'2024, the Dissolved Oxygen values were in the range of 5.2 mg/l to 7.2 mg/l, Chemical Oxygen Demand was in the range of 30 mg/l to 56 mg/l, Total Dissolved Solids was in the range of 460 mg/l to 716 mg/l, Biological Oxygen Demand was in the range of 2.7 mg/l to 7.0 mg/l. From these values, it is evident that no industrial effluents are joining the water body.

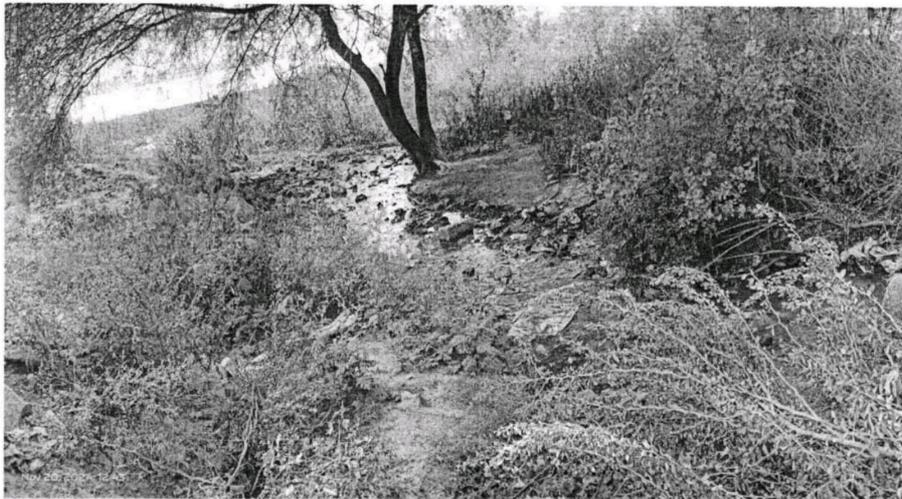
The untreated sewage entering from residential colonies (Shantinagar Colony and Srinagar Colony) from South-East direction located in the catchment area has to be diverted (or) treated in Sewage Treatment Plant (STP) before discharging into Sakhi Lake.

Place: Hyderabad.
Date: 21-11-2024.

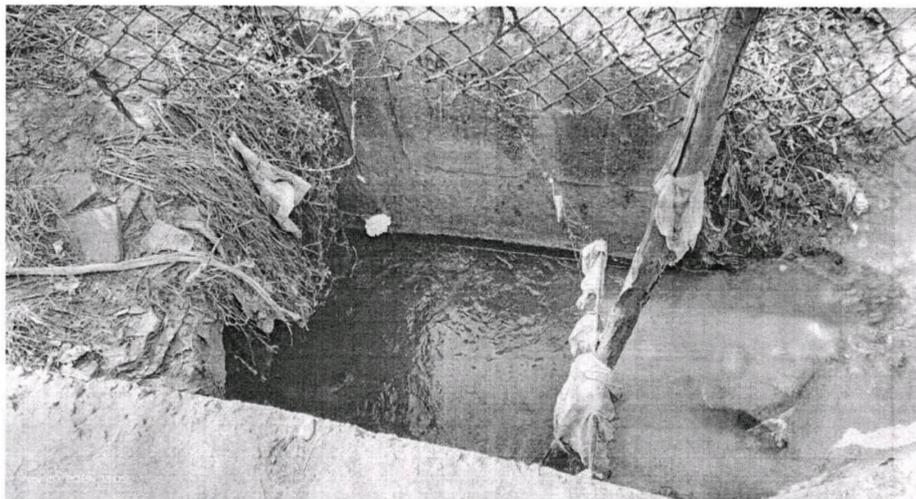
C. Peeth
ENVIRONMENTAL ENGINEER
Environmental Engineer
T.G. Pollution Control Board
Regional Office-1, SANGAREDDY



Sewage joining the tank



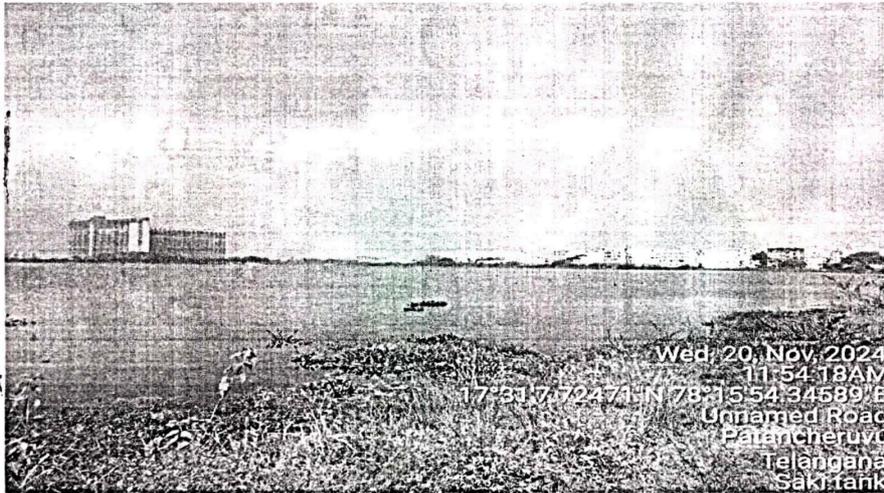
Sewage joining the tank



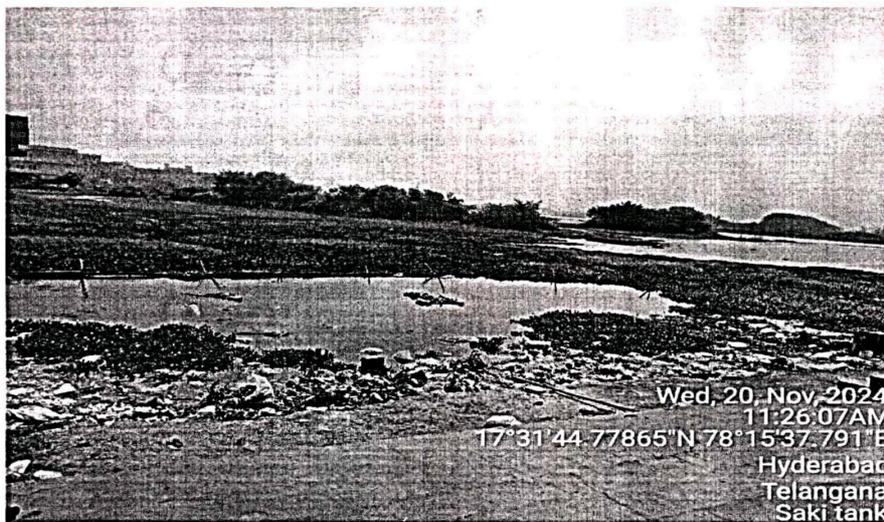
Box drain provided for diverting the sewage from upstream colonies



Eutrophication in the lake



Saki tank



MSW dumped at the Nimajjan Ghat of the tank



TELANGANA POLLUTION CONTROL BOARD
Regional Office – I: Sangareddy
5-1-28, Shantinagar, Sangareddy – 502 001, Medak District.

Ph.No.08455-297799, 276795

Email: ee- mdk1-tspcb@telangana.gov.in

Notice No. 01/PCB/RO-I:SRD/W&A/2024- 834

Date: 20.11.2024

NOTICE

Sub: PCB – RO-I, SRD – SUOMOTU OA No.1213 of 2024 before Hon’ble NGT, New Delhi against the pollution of Saki tank, Patancheru – Sewage joining the tank from the South-East section of the upstream colonies and Dumping of Municipal Solid Waste (MSW) at the Nimajjan ghat - Action requested - Reg.

Ref: 1. Original Application was registered Suo Motu by the Hon’ble NGT, Principal Bench, New Delhi vide OA No. 1213 of 2024 based on the News item titled “Sakhi lake under threat chokes on Pharma Waste” appearing in the Times of India dated 22.09.2024.
2. Inspection of surrounding areas near the Sakhi lake on 20.11.2024.

Adverting to the references cited above, it is to inform that, an Original Application was registered Suo Motu by the Hon’ble NGT, Principal Bench, New Delhi vide OA No. 1213 of 2024 based on the News item titled “Sakhi lake under threat chokes on Pharma Waste” appearing in the Times of India dated 22.09.2024.

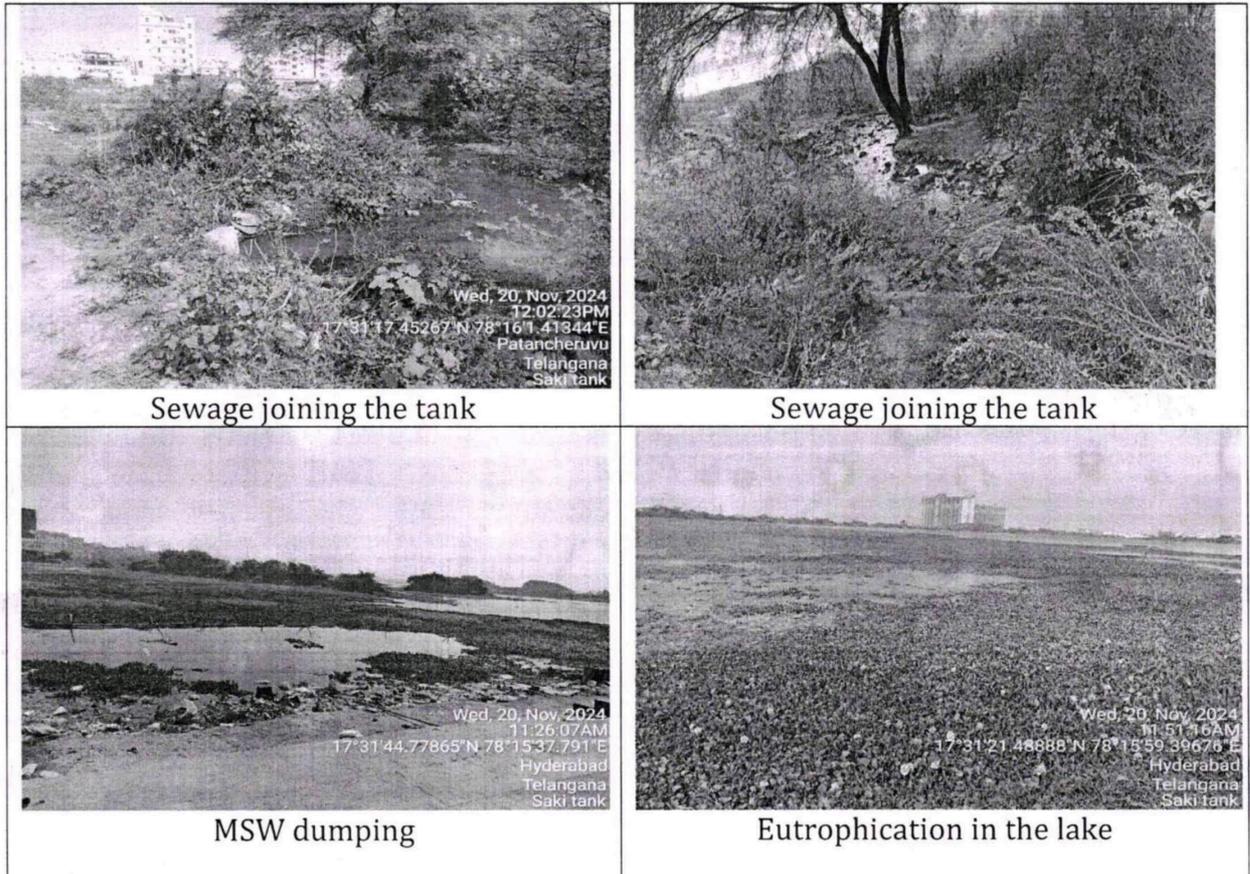
During the inspection on 20.11.2024, it was observed that no industries are located in the catchment area of the tank and no effluent is joining the saki tank as the industries are located downstream of the tank.

Residential colonies named Shantinagar colony & Sri Nagar Colony are located in the catchment area of the saki tank and the HMWS&SB has provided box drain for preventing the sewage from entering the tank but still sewage is joining the tank from the South-East section of the upstream colonies leading to eutrophication of tank. Dumping of Municipal Solid Waste (MSW) was also observed at the Nimajjan ghat provided at the tank.

The TGPCB is monitoring the water quality of Saki tank every month under National Water Quality Monitoring Programme. As per the water quality reports, the water quality is falling under Class-D as per the CPCB water quality criteria i.e., the water body is best suitable for propagation of wildlife and fisheries. Further, it is to inform that, the Hon’ble

NGT vide order dated 18.11.2020 in O.A. No 325/2015 has disposed the case with directions to restore the water bodies to bathing quality i.e. Class – B.

In view of the above, it is requested to take necessary action to divert the sewage entering the Saki tank from the South-East section of the upstream colonies so as to protect the tank from sewage contamination.



To
The General Manager (Engineering)
O&M, HMWS & SB, Division XVII,
Hafeezpet, Rangareddy District.


ENVIRONMENTAL ENGINEER
Environmental Engineer
T.G. Pollution Control Board
Regional Office-1, SANGAREDDY

Copy submitted to the JCEE, TGPCB, Zonal Office, R.C.Puram for kind information.



TELANGANA POLLUTION CONTROL BOARD
Regional Office – I: Sangareddy
5-1-28, Shantinagar, Sangareddy – 502 001, Medak District.

Ph.No.08455-297799, 276795

Email: ee- mdk1-tspcb@telangana.gov.in

Notice No. 01/PCB/RO-I:SRD/W&A/2024- 833

Date: 20.11.2024

NOTICE

Sub: PCB – RO-I, SRD – SUOMOTU OA No.1213 of 2024 before Hon'ble NGT, New Delhi against the pollution of Saki tank, Patancheru – Sewage joining the tank from the South-East section of the upstream colonies and Dumping of Municipal Solid Waste (MSW) at the Nimajjan ghat – Action requested- Reg.

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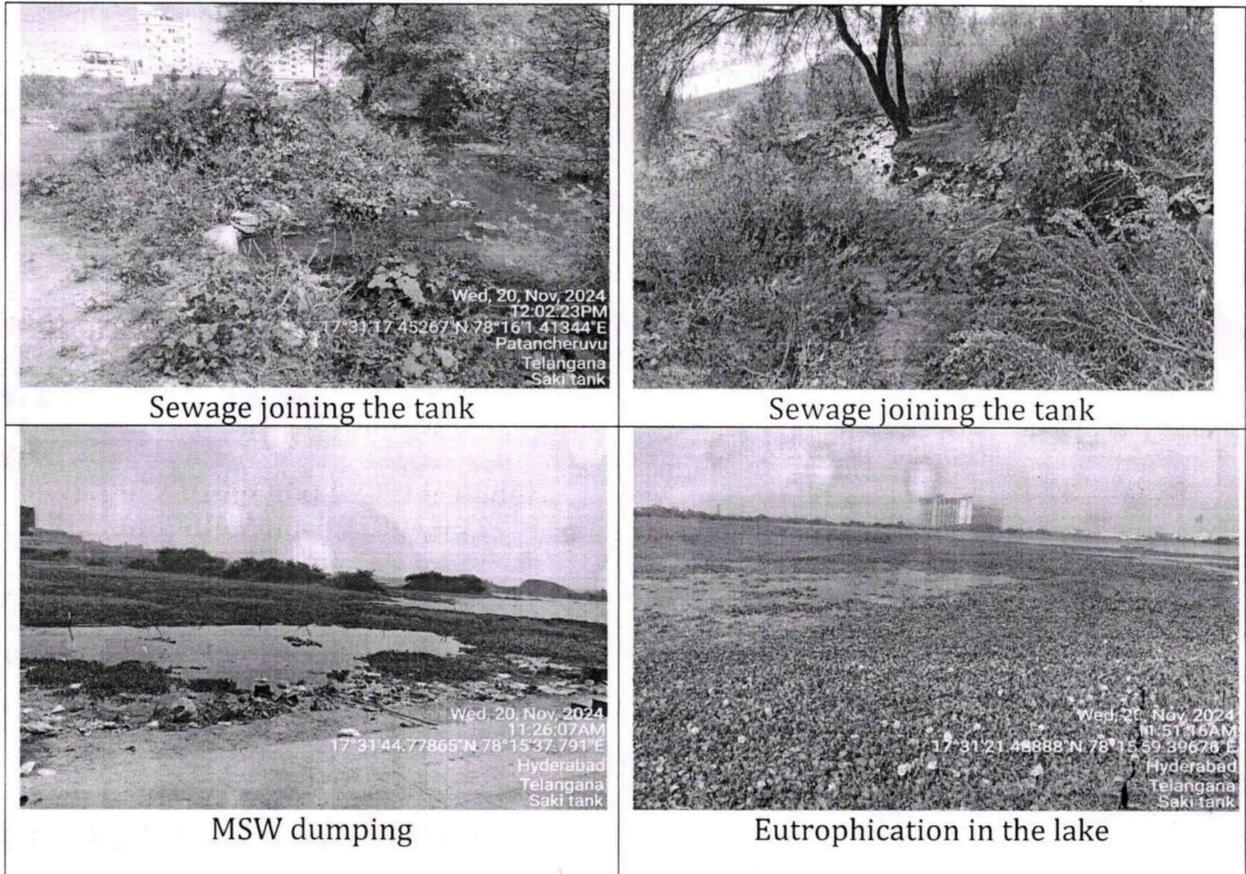
During the inspection on 20.11.2024, it was observed that no industries are located in the catchment area of the tank and no effluent is joining the tank as the industries are located downstream of the tank.

Residential colonies named Shantinagar colony & Sri Nagar Colony are located in the catchment area of the tank and the HMWS&SB has provided box drain for preventing the sewage from entering the tank but still sewage is joining the tank from the South-East section of the upstream colonies leading to eutrophication of tank. Dumping of Municipal Solid Waste (MSW) was also observed at the Nimajjan ghat provided at the tank.

The TGPCB is monitoring the water quality of Saki tank every month under National Water Quality Monitoring Programme. As per the water quality reports, the water quality is falling under Class-D as per the CPCB water quality criteria i.e., the water body is best

suitable for propagation of wildlife and fisheries. Further, it is to inform that, the Hon'ble NGT vide order dated 18.11.2020 in O.A. No 325/2015 has disposed the case with directions to restore the water bodies to bathing quality i.e. Class - B.

In view of the above, it is requested to take necessary action to divert the sewage by providing I & D structures at the inlets of the Saki tank so as to protect the lakes from sewage contamination and also protect the tank from dumping of Municipal solid waste and C & D waste.



To
The Deputy Municipal Commissioner,
Serilingampally Zone, RC Puram,
Patancheru, Sangareddy.

C. Geetha
ENVIRONMENTAL ENGINEER
Environmental Engineer
T.G. Pollution Control Board
Regional Office-1, SANGAREDDY

Copy submitted to the JCEE, TGPCB, Zonal Office, R.C.Puram for kind information.



-13-

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

ANALYSIS REPORT

3086 - Sakdi Tank												
Parameters	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
DO (mg/L)	6.5	6.1	6.2	5.6	5.4	5.2	5.5	5.7	6.2	6.5	6.2	6.6
pH	7.06	7.44	7.48	6.8	7.25	7.38	6.87	7.38	7.2	7.17	7.03	7.09
Conductivity (mS/cm)	859	973	890	935	1018	1135	1078	1133	1180	868	1020	1118
BOD (mg/L)	4.5	5	6	6.2	6	5.5	4	3.5	4	3.2	3	4
Nitrate	6	10	8	7	8	9	10	10	11	14	11	9
Nitrite-N (mg/L)	0.16	0.18	0.16	0.17	0.18	0.16	0.13	0.12	0.1	0.08	0.1	0.12
Fecal Coliform (MPN/100ml)	8	6	8.3	8.1	9.2	8.3	6.8	6.1	5.5	6	10	11
Total Coliform (MPN/100ml)	47	41	38	41	48	47	43	38	40	34	39	43
Faecal streptococci	6	5.5	4	6	8.1	6	6.1	4	3.6	4	5.6	6.1
Saprobity Index	NA	NA	NA	5.5	NA							
Diversity index	NA	NA	NA	0.62	NA							
P/R Ratio	NA											
Turbidity (NTU)	12	13	10	12	14	15	13	14	13	15	17	14
Phen-Alk. (mg/L)	20	24	28	16	24	24	16	20	24	28	36	32
Total Alk. (mg/L)	198	224	244	256	268	244	224	216	220	180	214	216
Chloride (mg/L)	84	80	88	112	118	138	132	124	126	94	126	134
COD (mg/L)	42	46	50	52	55	56	40	36	30	26	34	36
TKN (mg/L)	7.8	7.2	9	9.8	10.1	10.1	7.3	6.7	5.0	4.5	6.2	6.7
Free Ammonia (mg/L)	BDL											
Hardness (mg/L)	250	264	292	320	338	340	344	330	332	268	320	336
Calcium (mg/L)	64	56	58	62	66	72	68	66	68	51	62	66
Magnesium (mg/L)	22	30	36	40	42	39	42	40	40	34	40	42
Sulphate (mg/L)	13	9	16	15	17	14	10	13	15	10	10	17
Sodium (mg/L)	20	21	22	28	30	37	37	34	37	27	38	39
TDS (mg/L)	486	553	520	558	629	644	638	640	672	492	580	636
TFS (mg/L)	354	383	366	382	472	461	444	491	477	337	402	454
TSS (mg/L)	11	13	15	17	16	17	14	15	13	15	17	14
Total Phosphate (mg/L)	NA											
Ortho Phosphate (mg/L)	0.15	0.11	0.12	0.13	0.16	0.2	0.18	0.12	0.14	0.13	0.12	0.15
Boron (mg/L)	BDL											
Potassium (mg/L)	4	4	5	7	6	7	5	7	6	6	7	6
Fluoride (mg/L)	0.19	0.24	0.22	0.24	0.26	0.28	0.17	0.21	0.2	0.48	0.42	0.44
% Sodium	14.55	14.55	13.79	15.66	15.91	18.62	18.75	17.95	19.06	17.58	20.12	19.74
SAR	0.55	0.56	0.56	0.68	0.71	0.87	0.87	0.82	0.88	0.72	0.93	0.92
Class of water body as per CPCB Water Quality Criteria	'D'											

NA - Not Analysed
BDL - Below Detectable Limit.

Note: Data extracted from NWMP (National Water Quality Monitoring Programme) under CPCB.


SENIOR ENVIRONMENTAL SCIENTIST



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

ANALYSIS REPORT

3086 - Saki Tank												
Parameters	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
DO (mg/L)	6.9	6.7	6.5	6.2	5.9	5.7	6.2	6.4	6.5	6.1	6.9	6.5
pH	7.68	7.78	7.69	7.15	7.9	7.59	7.62	7.6	8.08	7.64	7.23	7.32
Conductivity (mS/cm)	923	970	985	1256	1247	1165	893	876	872	874	751	723
BOD (mg/L)	3.4	2.7	3.0	4.0	4.4	3.8	3.2	3.0	3.0	3.0	3.0	3.2
Nitrate	11	5	5	5	6	6	6	5	5	4	8	9
Nitrite-N (mg/L)	0.09	0.07	0.06	0.09	0.10	0.14	0.17	0.16	0.15	0.08	0.09	0.09
Fecal Coliform (MPN/100ml)	9.2	10	12	15	13	17	12	6.1	6	6.1	5.9	5.9
Total Coliform (MPN/100ml)	41	38	40	47	48	58	41	43	40	41	41	41
Faecal streptococci	7.8	6.8	6.3	9.2	8.3	11	7.8	6.1	6	6	5.6	6
Saprobity index	NA	NA	NA	6.4	NA							
Diversity index	NA	NA	NA	0.62	NA							
P/R Ratio	NA											
Turbidity (NTU)	34	14	12	13	14	15	18	16	15	10	15	3
Phen-Alk. (mg/L)	28	24	16	20	32	32	28	28	25	18	24	20
Total Alk. (mg/L)	216	184	212	220	236	204	180	188	196	200	150	170
Chloride (mg/L)	124	124	136	148	138	114	86	118	117	148	76	85
COD (mg/L)	32	30	33	36	40	35	31	34	30	30	36	38
TKN (mg/L)	5.6	5.6	6.2	7.2	7.3	6.7	5.6	6.2	6.2	8	22	16
Free Ammonia (mg/L)	BDL											
Hardness (mg/L)	332	296	336	364	364	304	268	276	270	260	190	248
Calcium (mg/L)	60	56	63	70	76	62	55	56	52	68	44	56
Magnesium (mg/L)	44	38	43	46	42	36	32	33	34	22	19	26
Sulphate (mg/L)	17	13	14	15	17	15	14	66	60	10	56	66
Sodium (mg/L)	37	33	36	37	39	34	20	22	20	23	34	40
TDS (mg/L)	528	548	559	716	702	671	564	552	506	568	460	457
TFS (mg/L)	338	367	374	518	504	489	381	342	314	403	327	325
TSS (mg/L)	10	11	12	13	12	13	15	13	10	4	6	5
Total Phosphate (mg/L)	NA											
Ortho Phosphate (mg/L)	0.17	0.16	0.14	0.15	0.16	0.17	0.16	0.18	0.17	0.15	0.12	0.13
Boron (mg/L)	BDL											
Potassium (mg/L)	5	7	8	5	6	5	4	5	4	5	2	2.1
Fluoride (mg/L)	0.4	0.42	0.4	0.42	0.45	0.43	0.4	0.36	0.32	0.32	0.24	0.25
% Sodium	19.28	19.06	18.54	17.89	18.65	19.31	13.71	14.34	13.58	15.72	34.04	32.33
SAR	0.89	0.83	0.86	0.84	0.89	0.85	0.53	0.57	0.43	0.48	0.98	1.02
Class of water body as per CPCB Water Quality Criteria	'D'	'B'	'D'									

NA - Not Analysed

BDL - Below Detectable Limit.

Note: Data extracted from NWMP (National Water Quality Monitoring Programme) under CPCB.

(Signature)
 SENIOR ENVIRONMENTAL SCIENTIST



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

ANALYSIS REPORT

3086 - Saki Tank												
Parameters	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
DO (mg/L)	6.8	7.1	6.9	7.0	6.1	6.2	6.3	6.1	6.3	6.2	6.6	6.9
pH	7.28	8.38	8.12	8.4	8.26	8.12	8.06	7.95	7.81	7.34	7.21	8.32
Conductivity (mS/cm)	768	818	956	902	1008	1026	925	906	826	796	816	830
BOD (mg/L)	3.2	3.6	3.8	3.6	3.8	3.9	3.0	3.5	3.0	3.2	3.1	3.0
Nitrate	20	22	22	20	25	26	33	30	25	22	24	28
Nitrite-N (mg/L)	0.09	0.08	0.09	0.1	0.08	0.09	0.1	0.09	0.1	0.09	0.09	0.09
Fecal Coliform (MPN/100ml)	5.9	6.1	6.8	6.1	6.8	7.8	6.8	6.1	6	6.1	6	6
Total Coliform (MPN/100ml)	41	43	47	43	43	47	43	41	41	43	41	40
Faecal streptococci	5.6	5.5	5.6	5.6	5.6	6	5.6	5.5	5.6	5.6	5.5	5.6
Saprobity index	NA	NA	NA	6.7	NA							
Diversity index	NA	NA	NA	0.64	NA							
P/R Ratio	NA											
Turbidity (NTU)	3.7	4.0	4.2	4.1	4.1	4.0	4.2	4.0	4.1	3.5	4.2	3.8
Phen-Alk. (mg/L)	24	28	24	24	24	28	24	20	16	12	14	16
Total Alk. (mg/L)	150	155	170	165	170	175	170	165	170	165	180	185
Chloride (mg/L)	91	96	101	98	120	130	128	125	131	118	120	115
COD (mg/L)	36	40	44	42	44	40	48	44	35	36	38	40
TKN (mg/L)	29	36	38	36	38	32	12	16	12	10	12	12
Free Ammonia (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA
Hardness (mg/L)	205	210	255	230	270	290	270	270	260	230	235	260
Calcium Hardness (mg/L)	115	130	150	140	150	160	150	165	150	140	150	160
Magnesium Hardness (mg/L)	90	80	105	90	120	130	120	105	110	90	85	100
Calcium (mg/L)	46	52	60	56	60	64	60	66	60	56	60	64
Magnesium (mg/L)	21.87	19	26	22	29	32	29	26	26	22	21	24
Sulphate (mg/L)	54	58	72	68	61	62	52	40	34	32	31	35
Sodium (mg/L)	34	39	32	28	30	32	31	25	28	24	29	26
TDS (mg/L)	460	502	593	541	605	626	508	507	512	478	481	506
TFS (mg/L)	320	336	421	379	423	382	356	355	358	339	342	359
TSS (mg/L)	6	7	8	7	8	9	9	8	7	6	7	8
Total Phosphate (mg/L)	NA											
Ortho Phosphate (mg/L)	0.12	0.1	0.11	0.12	0.14	0.13	0.13	0.11	0.13	0.11	0.12	0.13
Boron (mg/L)	BDL											
Potassium (mg/L)	2	3	4	3	7	7.2	7	6.8	7.6	6.5	7.9	7.5
Fluoride (mg/L)	0.25	0.28	0.30	0.29	0.31	0.12	0.35	0.36	0.37	0.32	0.35	0.36
% Sodium	32.82	33.70	25.81	25.20	23.17	23.15	19.41	16.16	18.51	17.86	20.29	17.33
SAR	0.96	1.03	0.78	0.71	0.72	0.74	0.77	0.59	0.69	0.54	0.72	0.62
Class of water body as per CPCB Water Quality Criteria	'D'											

NA - Not Analysed

BDL - Below Detectable Limit.

Note: Data extracted from NWMP (National Water Quality Monitoring Programme) under CPCB.

[Signature]
 SENIOR ENVIRONMENTAL SCIENTIST



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

ANALYSIS REPORT

3086 - Saki Tank								
Parameters	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24
DO (mg/L)	6.8	6.9	6.8	7.2	6.9	6.8	6.2	6.6
pH	8.15	8.23	8.14	7.94	7.62	7.58	7.5	7.59
Conductivity (mS/cm)	845	961	856	1164	1121	1205	1025	1106
BOD (mg/L)	3.4	3.6	3.5	3.4	3.8	3.6	4	3.6
Nitrate	32	33	34	38	32	30	32	28
Nitrite-N (mg/L)	0.08	0.07	0.06	0.1	0.14	0.13	0.11	0.19
Fecal Coliform (MPN/100ml)	6	6.1	6.8	7.2	7.2	6.8	5.5	4.5
Total Coliform (MPN/100ml)	41	43	48	47	43	47	44	41
Faecal streptococci	5.5	5.5	5.6	5.5	6	4.5	3.6	2
Saprobity index	NA	NA	NA	6.6	NA	NA	NA	NA
Diversity index	NA	NA	NA	0.65	NA	NA	NA	NA
P/R Ratio	NA							
Turbidity (NTU)	3.9	3.8	3.9	4.2	4.5	4	4.2	6.3
Phen-Alk. (mg/L)	18	20	22	26	24	20	24	28
Total Alk. (mg/L)	188	190	196	276	280	272	204	220
Chloride (mg/L)	119	125	121	140	145	140	130	126
COD (mg/L)	45	43	40	39	42	40	44	39
TKN (mg/L)	12	12	10	8	7	5	6	5
Free Ammonia (mg/L)	NA	BDL						
Hardness (mg/L)	280	320	335	410	390	356	384	276
Calcium Hardness (mg/L)	170	190	195	240	235	224	240	176
Magnesium Hardness (mg/L)	110	130	140	170	155	132	144	100
Calcium (mg/L)	68	76	78	96	94	90	72	70
Magnesium (mg/L)	27	32	34	41	38	32	20	25
Sulphate (mg/L)	44	46	49	51	46	40	40	42
Sodium (mg/L)	28	35	39	61	69	60	60	55
TDS (mg/L)	515	586	522	640	684	700	620	670
TFS (mg/L)	361	416	366	455	479	440	416	410
TSS (mg/L)	8	8	7	9	8	6	9	6
Total Phosphate (mg/L)	NA							
Ortho Phosphate (mg/L)	0.14	0.15	0.14	0.11	0.14	0.12	0.10	0.14
Boron (mg/L)	BDL							
Potassium (mg/L)	7.2	7.3	7.9	8.7	8.9	8.6	8	8.5
Fluoride (mg/L)	0.37	0.38	0.41	0.39	0.32	0.29	0.28	0.2
% Sodium	17.26	18.61	19.65	23.91	27.04	26.10	25.94	29.19
SAR	0.65	0.77	0.85	1.20	1.37	1.21	1.42	1.43
Class of water body as per CPCB Water Quality Criteria	'D'							

NA - Not Analysed

BDL - Below Detectable Limit.

Note: Data extracted from NWMP (National Water Quality Monitoring Programme) under CPCB.

Lebeka
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