

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

**ORIGINAL APPLICATION NO. 185 of 2024 (SZ)**

SuoMotu

: Applicant

Vs.

The Principal Secretary to Government of Kerala,  
Department of Environment, Thiruvananthapuram  
and Ors

: Respondents

**REPORT FILED BY THE ENVIRONMENTAL ENGINEER,  
KERALA STATE POLLUTION CONTROL BOARD, FOR AND ON  
BEHALF OF THE RESPONDENT**



Adv. Rema Smrithi V.K

ADDITIONAL STANDING COUNSEL FOR THE SEVENTH RESPONDENT

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and Ors : Respondents

**VOLUME 1**

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Dated this the 6<sup>th</sup> day of July 2024

Remasmrithi. V.K,Advocate

ADDITIONAL STANDING COUNSEL FOR THE SEVENTH RESPONDENT:

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL  
SOUTHERN ZONE, CHENNAI  
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**VOLUME 2**

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Dated this the 6<sup>th</sup> day of July 2024

Remasmrithi. V.K. Advocate

ADDITIONAL STANDING COUNSEL FOR THE SEVENTH RESPONDENT:

1

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

**ORIGINAL APPLICATION NO.185 of 2024 (SZ)**

Applicant :SuoMotu

Respondents :ThePrincipal Secretary to Government  
ofKerala,Environment Department,  
Thiruvananthapuram and others

**REPORT FILED BY ENVIRONMENTAL ENGINEER, DISTRICT OFFICE,  
KOLLAM FOR AND ON BEHALF OF THE KERALA STATE POLLUTION  
CONTROL BOARD**

1. I,Rachel Thomas, aged 40 years, D/o Sri.A. Thomas, now working as Environmental Engineer, Kerala State Pollution Control Board, District Office, Kollam. I am authorized to represent the Board (7<sup>th</sup> respondent) in the above O.A. I know the facts and circumstances of the case. The factual submissions are true and correct to the best of my knowledge, information and belief.
2. This Report is filed on behalf of the Kerala State Pollution Control Board, as directed by this Hon'bleNGT in its Order dated 29.05.2024.
3. The Hon'ble National Green Tribunal (NGT) Southern Zone, Chennai has registered a SuoMotu case O.A No. 185 of 2024 based on thenews published in 'The Hindu', Chennai Edition dated 24.05.2024 titled "Microplastics found in Ashtamudi Lake, alleging that a study conducted by the Department of Aquatic Biology and Fisheries, University of Kerala found microplastics in the brackish water lake's fish, shellfish, sediment and water. The Hon'bleNGT vide order dated 29.05.2024 had directed this respondent to file a report after making verification of the water quality and also analysis of the biota.
4. As part of NWMP, water samples collected from 5 different points in Ashtamudi lake for analysis of 32 physical and chemical parameters. Sampling stations cover both urban and rural areas, estuary near



*Rachel Thomas*

**RACHEL THOMAS**  
Environmental Engineer

Neendakara. Water quality is preferably good in rural area samples where almost all parameters are within the prescribed limit even during the summer seasons. However, the urban samples and samples taken near estuary always exceeds BOD and show low DO content. Consolidated copy of the analysis report for the month of April & May 2024 from 5 sampling points is attached herewith as **Annexure I**. Kollam Municipal Corporation was directed vide letter no. PCB/KO/35/06 dated 31.01.2023 to take measures to prevent the entry of bio and non-bio wastes along with surface runoff and household discharges through urban canals and drains.

5. Sanitation survey of Ashtamudi lake was carried out through Socio Economic Unit Foundation (SEUF) during the year 2020-2022 and the report was forwarded to respective local bodies for implementation. Various actions have been taken for the protection of the Ashtamudi lake, based on the order of Hon'ble NGT in OA 147/2022. Action plan was prepared for the restoration of the lake with the involvement of respective local bodies in the catchment area and by Government departments namely LSGD, Water Resources department, Pollution Control Board, SWAK etc. The implementation of the action plan was periodically reviewed at the Government level by the Secretary, Environment and by the Chief Secretary. Further several regulatory actions were taken by the Kerala State Pollution Control Board and local bodies. Fine was imposed for SUP ban, illegal outlets, illegal dumping through squad, in which Board is also a member as well as through local bodies.
6. The Board also conducted inspection in areas of Pullikada colony, Alakkukadavu colony, Shantinagar, Harisreenagar on 12.06.2023 and directions were given to Kollam Corporation on 07.08.2023 to stop illegal discharges through unauthorised outlets, fencing for prevention of waste disposal and to remove the wastefrom the lake. The copy of the Letter dated 07.08.2023 is produced herewith as **Annexure II**. Recently, the Board has also conducted a pilot Sanitation survey in the drains leading to Ashtamudi namely Manichithodu. Kollam canal & T S canal on 08.02.2024 to 10.02.2024 to identify the sources of pollution with the support of Engineering College students and report has been submitted and further action is being taken.



*Rachel Thomas*

**RACHEL THOMAS**  
Environmental Engineer

7. During the inspection conducted on 27.03.2023 based on a complaint that boat dismantling waste were collected and disposed and even some are fired openly in the small islands amidst of Ashtamudi Lake, which even leads to destroying of Mangrove, found remaining of boat dismantling waste and mangrove. Further secretaries of Neendakara and Thekkumbhagam GramaPanchayats were directed vide letter no. PCB/KO/G/35/06 dated 27.04.2023 to take urgent measures to collect boat dismantling wastes such as sponge, wooden pieces, fibre etc. Based on another inspection conducted by the Board on 08.04.2024, Kollam Municipal Corporation was directed vide letter no. PCB/KO/G/51/09 dated 08.04.2024 to take steps to remove the legacy waste near KSRTC bus stand and Manichithodu on the banks of Ashtamudi Lake.
8. Based on the order of the Hon'bleNGT vide dated 29.05.2024, the Board conducted a preliminary meeting through video conference on 24.06.2024 with the researchers of the said study and Joint Director, Urban Directorate (Swag Cell). The researchers explained about the study in the six sample locations and their analytical method to identify micro plastics. The Board had informed that there is no existing facility for identification of micro plastics with Board's laboratories. Possibility of outsourcing micro plastic identification has to be sought for. On enquiry, it came to know that certain agencies/institutions have facility to do FTIR and Raman spectra analysis such as MG University, Kottayam, Sophisticated Test and Instrumentation Centre, CUSAT, Kerala Forest Research Institute, Peechi, etc. and action for the quantification study of micro plastics in identified vulnerable areas is to be done. Following decisions were taken during the above said meeting.
- a. Possibility of outsourcing test on micro plastic in the place where FTIR and Raman spectra analysis.
  - b. To appraise the matter to the District Collector, who is the chairman of District Level Monitoring Committee (DLMC)
  - c. To issue instruction to all concerned stake holders explaining OA 185/2024 for the effective implementation of the remedial measures
  - d. To issue instruction to Kollam Corporation seeking information regarding authorized collectors (Haritha Karma Sena-HKS), MCF, RRF, actions taken in the problematic area, and Enforcement Squad
  - e. To issue instruction to the Harbour Department seeking the



*Rachel Thomas*

**RACHEL THOMAS**  
Environmental Engineer

details regarding the plastic collected as part of Suchitwa Sagaram campaign.

- f. To conduct sampling in routine sampling stations near to the five locations from which the samples were collected for the study of micro plastics.
9. As per the decisions taken during the meeting convened on 24.06.2024, The Board vide letter dated 02.07.2024 had requested the Harbour Engineering Department to furnish the status report on the activities involved under "Suchithwa Sagaram" project with specific emphasis to agencies/bodies involved, action plans, achievements, details of collection and disposal of Plastic Waste, vulnerable areas, future action plans/proposals etc. Copy of the letter dated 02.07.2024 is produced herewith as **Annexure III.OA** 185/2024 has been included in the agenda for next District Level Monitoring Committee chaired by the District Collector.
10. It is humbly requested that since sophisticated testing facilities are not available with Board laboratories, possibilities of outsourcing the micro plastic analysis have to be explored by this respondent. In this scenario, this respondent seeks more time from the Hon'bleNGT to complete the micro plastic analysis and to submit the report.

All that is stated above are true to the best of my knowledge, information and belief.

Dated this the 6<sup>th</sup> day of July 2024

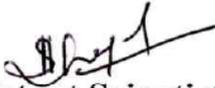
  
**ENVIRONMENTAL ENGINEER**

**RACHEL THOMAS**  
Environmental Engineer



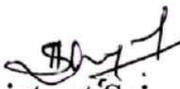
**NATIONAL WATER QUALITY MONITORING PROGRAMME  
(NWMP) 2024**

Station Name		ASHTAMUDI	
Type of Water body		LAKE-ASHTAMUDI	
Completed by		AES	
Agency		Kerala State Pollution Control Board	
		Apr-24	May-24
Sl.No	Determinants	Values	Values
1	Temperature, 0C	29	29
2	Dissolved Oxygen, mg/l	4.33	5.26
3	pH	7.6	8
4	Conductivity, $\mu$ mhos/cm	8990	25500
5	BOD, mg/l	3.46	1.73
6	Nitrate-N, mg/l	5.3	5.2
7	Turbidity, NTU	3.2	BDL
8	Phenolphthalein Alkalinity, mg/l	—	—
9	Total Alkalinity, mg/l	28	102
10	Chloride, mg/l	2115	7700
11	COD, mg/l	11.1	6.1
12	TKN, mg/l	NA	NA
13	Ammoniacal-N, mg/l	BDL	BDL
14	Hardness as CaCO <sub>3</sub> , mg/l	1912	4300
15	Calcium as CaCO <sub>3</sub> , mg/l	1011	1400
16	Magnesium as CaCO <sub>3</sub> , mg/l	901	2900
17	Sulphate, mg/l	495.5	441.6
18	Calcium (Ca <sup>2+</sup> ), mg/l	405.2	561.12
19	Magnesium (Mg <sup>2+</sup> ), mg/l	218.94	704.7
20	Sodium, mg/l	1125	4019
21	Total Dissolved Solids, mg/l	4935	14300
22	Total Fixed Solids, mg/l	3948	11440
23	Total Suspended Solids, mg/l	550	10280
24	Phosphate, mg/l	0.3115	0.5304
25	Boron, mg/l	BDL	BDL
26	Potassium, mg/l	67	327
27	Fluoride, mg/l	BDL	BDL
28	Total Coliform, MPN/100 ml	1130	1110
29	Fecal Coliform, MPN/100 ml	410	390
30	Fecal Streptococcus, MPN/100 ml	80	60
31	% SODIUM	55.10	64.90
32	SAR	11.20	26.70

  
Assistant Scientist

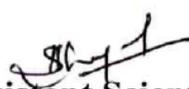
**NATIONAL WATER QUALITY MONITORING PROGRAMME  
(NWMP) 2024**

Station Name	THOPPILKADAVU		
Type of Water body	LAKE-ASHTAMUDI		
Completed by	AES		
Agency	Kerala State Pollution Control Board		
		<b>Apr-24</b>	<b>May-24</b>
Sl.No	<b>Determinants</b>	<b>Values</b>	<b>Values</b>
1	Temperature, 0C	29	29
2	Dissolved Oxygen, mg/l	4.1	4
3	pH	7.7	7.6
4	Conductivity, $\mu$ mhos/cm	17934	30800
5	BOD, mg/l	3.9	3.1
6	Nitrate-N, mg/l	3.6	31
7	Turbidity, NTU	3.1	2.9
8	Phenolphthalein Alkalinity, mg/l	-	-
9	Total Alkalinity, mg/l	121	103
10	Chloride, mg/l	4737	9100
11	COD, mg/l	13.8	9.3
12	TKN, mg/l	NA	NA
13	Ammoniacal-N, mg/l	BDL	BDL
14	Hardness as CaCO <sub>3</sub> , mg/l	1741	4200
15	Calcium as CaCO <sub>3</sub> , mg/l	867	1800
16	Magnesium as CaCO <sub>3</sub> , mg/l	874	2400
17	Sulphate, mg/l	447.8	441.025
18	Calcium (Ca <sup>2+</sup> ), mg/l	347.49	721.44
19	Magnesium (Mg <sup>2+</sup> ), mg/l	212.38	583.2
20	Sodium, mg/l	2571	4839
21	Total Dissolved Solids, mg/l	9810	17074
22	Total Fixed Solids, mg/l	7848	13659.2
23	Total Suspended Solids, mg/l	9598	10546
24	Phosphate, mg/l	0.3441	0.5678
25	Boron, mg/l	BDL	BDL
26	Potassium, mg/l	64.3	367
27	Fluoride, mg/l	BDL	BDL
28	Total Coliform, MPN/100 ml	1680	1660
29	Fecal Coliform, MPN/100 ml	580	560
30	Fecal Streptococcus, MPN/100 ml	30	30
31	% SODIUM	75.40	69.30
32	SAR	26.80	32.50

  
 Assistant Scientist

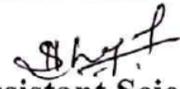
**NATIONAL WATER QUALITY MONITORING PROGRAMME  
(NWMP) 2024**

Station Name	KSRTC Bus Depot Kollam		
Type of Water body	LAKE-ASHTAMUDI		
Completed by	AES		
Agency	Kerala State Pollution Control Board		
		<b>Apr-24</b>	<b>May-24</b>
<b>Sl.No</b>	<b>Determinants</b>	<b>Values</b>	<b>Values</b>
1	Temperature, 0C	29	28
2	Dissolved Oxygen, mg/l	4.2	4.1
3	pH	7.8	7.9
4	Conductivity, µmhos/cm	13235	37400
5	BOD, mg/l	3.6	2.7
6	Nitrate-N, mg/l	2.4	2.5
7	Turbidity, NTU	2.9	2.1
8	Phenolphthalein Alkalinity, mg/l	—	—
9	Total Alkalinity, mg/l	112	89
10	Chloride, mg/l	3748	15300
11	COD, mg/l	11.5	9.1
12	TKN, mg/l	NA	NA
13	Ammoniacal-N, mg/l	BDL	BDL
14	Hardness as CaCO <sub>3</sub> , mg/l	2237	6000
15	Calcium as CaCO <sub>3</sub> , mg/l	1200	2800
16	Magnesium as CaCO <sub>3</sub> , mg/l	1037	3200
17	Sulphate, mg/l	478.9	426.075
18	Calcium (Ca <sup>2+</sup> ), mg/l	480.96	1122.24
19	Magnesium (Mg <sup>2+</sup> ), mg/l	251.99	777.6
20	Sodium, mg/l	1974	8600
21	Total Dissolved Solids, mg/l	7256	30900
22	Total Fixed Solids, mg/l	5804.8	24720
23	Total Suspended Solids, mg/l	10116	11100
24	Phosphate, mg/l	0.3541	0.6154
25	Boron, mg/l	BDL	BDL
26	Potassium, mg/l	54.7	182
27	Fluoride, mg/l	BDL	BDL
28	Total Coliform, MPN/100 ml	1730	1710
29	Fecal Coliform, MPN/100 ml	530	510
30	Fecal Streptococcus, MPN/100 ml	40	20
31	% SODIUM	65.10	73.50
32	SAR	18.2	48.3

  
Assistant Scientist

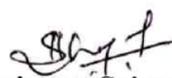
**NATIONAL WATER QUALITY MONITORING  
PROGRAMME  
(NWMP) 2024**

Station Name		PERUMON	
Type of Water body		LAKE-ASHTAMUDI	
Completed by		AES	
Agency		Kerala State Pollution Control Board	
		Apr-24	May-24
Sl.No	Determinants	Values	Values
1	Temperature, 0C	28.5	30
2	Dissolved Oxygen, mg/l	6.067	5
3	pH	7.4	7.9
4	Conductivity, µmhos/cm	12110	32700
5	BOD, mg/l	1.067	2.33
6	Nitrate-N, mg/l	7.5	7.4
7	Turbidity, NTU	1.1	BDL
8	Phenolphthalein Alkalinity, mg/l	—	—
9	Total Alkalinity, mg/l	83	85
10	Chloride, mg/l	3846	12800
11	COD, mg/l	7.1	7.1
12	TKN, mg/l	NA	NA
13	Ammoniacal-N, mg/l	BDL	BDL
14	Hardness as CaCO <sub>3</sub> , mg/l	2641	5700
15	Calcium as CaCO <sub>3</sub> , mg/l	1730	3200
16	Magnesium as CaCO <sub>3</sub> , mg/l	911	2500
17	Sulphate, mg/l	521.8	373.75
18	Calcium (Ca <sup>2+</sup> ), mg/l	693.38	1282.56
19	Magnesium (Mg <sup>2+</sup> ), mg/l	221.37	607.5
20	Sodium, mg/l	1994	6961
21	Total Dissolved Solids, mg/l	8295	26500
22	Total Fixed Solids, mg/l	6636	21200
23	Total Suspended Solids, mg/l	9035	11170
24	Phosphate, mg/l	0.2141	0.2686
25	Boron, mg/l	BDL	BDL
26	Potassium, mg/l	54.3	478
27	Fluoride, mg/l	BDL	BDL
28	Total Coliform, MPN/100 ml	680	660
29	Fecal Coliform, MPN/100 ml	180	160
30	Fecal Streptococcus, MPN/100 ml	40	20
31	% SODIUM	61.50	70.60
32	SAR	16.90	40.10

  
Assistant Scientist

**NATIONAL WATER QUALITY MONITORING  
PROGRAMME  
(NWMP) 2024**

<b>Station Name</b>		<b>KUNDARA CERAMICS</b>	
<b>Type of Water body</b>		<b>LAKE-ASHTAMUDI</b>	
<b>Completed by</b>		<b>AES</b>	
<b>Agency</b>		<b>Kerala State Pollution Control Board</b>	
		<b>Apr-24</b>	<b>May-24</b>
<b>Sl.No</b>	<b>Determinants</b>	<b>Values</b>	<b>Values</b>
1	Temperature, 0C	28.5	29
2	Dissolved Oxygen, mg/l	5.87	4.67
3	pH	7.7	7.9
4	Conductivity, µmhos/cm	11520	34300
5	BOD, mg/l	2.2	1.67
6	Nitrate-N, mg/l	5.8	5.6
7	Turbidity, NTU	1.8	BDL
8	Phenolphthalein Alkalinity, mg/l	—	—
9	Total Alkalinity, mg/l	14	94
10	Chloride, mg/l	3940	15200
11	COD, mg/l	8.1	5.2
12	TKN, mg/l	NA	NA
13	Ammoniacal-N, mg/l	BDL	BDL
14	Hardness as CaCO <sub>3</sub> , mg/l	2770	4700
15	Calcium as CaCO <sub>3</sub> , mg/l	1110	2300
16	Magnesium as CaCO <sub>3</sub> , mg/l	1660	2400
17	Sulphate, mg/l	394.9	398.475
18	Calcium (Ca <sup>2+</sup> ), mg/l	444.89	921.84
19	Magnesium (Mg <sup>2+</sup> ), mg/l	403.38	583.2
20	Sodium, mg/l	2145	7970
21	Total Dissolved Solids, mg/l	7800	30199
22	Total Fixed Solids, mg/l	6240	24159.2
23	Total Suspended Solids, mg/l	13250	13300
24	Phosphate, mg/l	0.2211	0.4318.
25	Boron, mg/l	BDL	BDL
26	Potassium, mg/l	56.1	523
27	Fluoride, mg/l	BDL	BDL
28	Total Coliform, MPN/100 ml	670	650
29	Fecal Coliform, MPN/100 ml	160	140
30	Fecal Streptococcus, MPN/100 ml	50	30
31	% SODIUM	62.10	76.40
32	SAR	17.70	50.60

  
Assistant Scientist

☎: General: 0471- 2312910, 2318153, 2318154, 2318155 Chairman: 2318150 Member Secretary: 2318151  
 e-mail: [chn.kspcb@gov.in](mailto:chn.kspcb@gov.in); [ms.kspcb@gov.in](mailto:ms.kspcb@gov.in) FAX: 2318152 web: [kspcb.kerala.gov.in](http://kspcb.kerala.gov.in)



**KERALA STATE POLLUTION CONTROL BOARD**

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Pattom P.O., Thiruvananthapuram – 695 004

പട്ടം പി.ഒ., തിരുവനന്തപുരം - 695 004



പിസിബി/എച്ച്.ഒ/ജി.ഐ.എസ്/01/2023

തീയതി: 07/08/2023

**“ഭരണഭാഷ മാതൃഭാഷ”**

പ്രേഷിത

അടിയന്തിരം

മെമ്പർ സെക്രട്ടറി

സ്വീകർത്താവ്

- ✓ സെക്രട്ടറി
- കൊല്ലം കോർപ്പറേഷൻ
- കൊല്ലം-691001

വിഷയം:- കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ് - അഷ്ടമുടി കായൽ, മണിച്ചിത്തോട് - പരിശോധന റിപ്പോർട്ട്

- സൂചന :-
- 1). ഒ.എ. നമ്പർ 147/2022 ലെ 22/03/2023 തീയതിയിലെ ബഹു. ദേശീയ ഹരിത ട്രിബ്യൂണൽ ഉത്തരവ്
  - 2) 24/05/2023 തീയതിയിലെ പിസിബി/എച്ച്.ഒ/ഇ-3/എൻജിടി/ഒഎ നമ്പർ 14/2022/06/2022 നമ്പർ കത്ത്
  - 3) 03/05/2023 തീയതിയിലെ സർക്കാർ കത്ത് നമ്പർ M4/46/2022-health-part (1)
  - 4) 26/05/2023 -ലെ മീറ്റിംഗിന്റെ മിനിട്ട്സ് സർ/മാഡം,

കൊല്ലം കോർപ്പറേഷനിൽ അഷ്ടമുടി കായൽ, മണിച്ചിത്തോട് ഭാഗത്തായി 12/06/2023 -ൽ ബോർഡ് പരിശോധന നടത്തുകയുണ്ടായി. പരിശോധനാ റിപ്പോർട്ട്

നം	സ്ഥലം	കണ്ടെത്തൽ	ചെയ്യേണ്ട കാര്യങ്ങൾ
1	കുറവൻ പാലം, മണിച്ചിത്തോട് 1. പുളളിക്കട കോളനി 2. അലക്കുകടവ് കോളനി 3. ശാന്തി നഗർ 4. ശങ്കർ നഗർ 5. ഹരിശ്രീ നഗർ 6. ആരാധനാ നഗർ	വീടുകളിൽ നിന്നും നിരവധി പൈപ്പുകൾ ഉണ്ടെന്ന് മലിന ജലം തോട്ടിലേക്ക് നേരിട്ട് ഒഴുകുന്നു.	അനധികൃത ഔട്ട്ലെറ്റുകൾ കണ്ടെത്തി ഉടൻ തന്നെ മലിനജലം ഒഴുക്കി വിടുന്നത് തടയണം
2	വികാസ് നഗർ സ്ക്രീറ്റ് നം. 6	ഈ ഭാഗത്തായി	മാലിന്യങ്ങൾ നീക്ഷേപി

	(പോളയത്തോട്)	തോടിലേക്ക് മാലിന്യങ്ങൾ നിക്ഷേപിക്കുന്നതായി കണ്ടെത്തി ഇവിടെ നിന്നും ശേഖരിച്ച വെള്ളത്തിന്റെ പരിശോധനാ റിപ്പോർട്ടിൽ കോളിഫോമിന്റെ സാന്നിധ്യമുണ്ട് (അളവ് 900 MPN/100ml)	കുറഞ്ഞ തടയണം. സംരക്ഷണ വേലികൾ ഏർപ്പെടുത്താവുന്നതാണ്.
3	അഷ്ടമുടി കായലിനു സമാന്തരമായുള്ള ലിങ്ക് റോഡ് 1. കെ.എസ്.ആർ.ടി.സി ബസ് സ്റ്റാന്റിനു മുൻവശം 2. ബോട്ട് ജെട്ടി ടെർമിനലിന്റെ പ്ലാറ്റ് ഫോമിനു അടിവശം 3. പോയിലക്കട ഫിഷറീസിനു മുൻവശം 4. ഹൗസ് ബോട്ട് ടെർമിനലിനു സമീപം	അഴുക്കു ചാലുകളിലൂടെ മലിനജലവും, മാലിന്യങ്ങളും കായലിലേക്ക് നേരിട്ട് ഒഴുക്കി വിടുന്നു	അതിൽ നിന്നും മാലിനജലം ഒഴുക്കി വിടുന്നത് തടയാനുള്ള നടപടി സ്വീകരിക്കണം
4	1. അഷ്ടമുടി കായൽ (കെ.എസ്.ആർ.ടി.സി മുതൽ മണിച്ചിത്തോട് വരെയുള്ള ഭാഗം) 2. തോപ്പിൽക്കടവ്	ഈ ഭാഗത്ത് കായലിലും, സമീപ പ്രദേശങ്ങളിലുമായി ജൈവ അജൈവ മാലിന്യങ്ങൾ കൂടിക്കിടക്കുന്നതും, കായലിൽ ഒഴുക്കി നടക്കുന്നതുമായി കണ്ടെത്തി.	മാലിന്യങ്ങൾ ഉടൻടി കായലിൽ നിന്നും സമീപ പ്രദേശങ്ങളിൽ നിന്നും നീക്കം ചെയ്യാനുള്ള നടപടി സ്വീകരിക്കണം

മണിച്ചിത്തോടിന്റെ വിമല ഹൃദയ സ്കൂളിനു പുറകു വശത്തുനിന്ന് തുടങ്ങി കടപ്പാക്കട കൊല്ലം - കൊട്ടാരക്കര റോഡിനു സമീപം വരെ തോട് സ്റ്റാമ്പിട്ട് മുടിയ നിലയിലാണ് എൻ.റ്റി.വി നഗർ ഭാഗത്തുള്ള റെയിൽവേ കൽവർട്ടിനടുത്ത് നിന്ന് ശേഖരിച്ച വെള്ളത്തിന്റെ സാമ്പിളിൽ കോളിഫോം ബാക്ടീരിയയുടെ സാന്നിധ്യം ഉണ്ട്. ഗാർഹിക മാലിന്യങ്ങളാൽ മലിനപ്പെട്ടതായി കാണുന്നു. ഈ മേഖലകളിൽ വീടുകൾ / സ്ഥാപനങ്ങളിൽ നിന്നും തോടിലേക്ക് മലിനജലം എത്തുന്നില്ലായെന്ന് ഉറപ്പു വരുത്തേണ്ടതാണ്.

ഇതു കൂടാതെ ടി പ്രദേശത്ത് നിന്നും ഖര മാലിന്യങ്ങൾ (ജൈവം & അജൈവം) വേർതിരിച്ച് ശേഖരിക്കുന്നത് സംബന്ധിച്ച് (മാലിന്യത്തിന്റെ അളവ്, നിർമ്മാർജ്ജന രീതി) എന്നിവ അറിയിക്കണം. അടിയന്തിര നടപടികൾ സ്വീകരിച്ച് മേൽ ന്യൂനതകൾ പരിഹ

രിക്കുന്നതിനായി ഹ്രസ്വകാല/ദീർഘകാല പദ്ധതികളുടെ സമയബന്ധിത രൂപരേഖ സഹിതം റിപ്പോർട്ട് സമർപ്പിക്കേണ്ടതാണ്.

വിശ്വസ്തതയോടെ,

ഉള്ളടക്കം: മേൽ പ്രകാരം

Stuart

മെമ്പർ സെക്രട്ടറി

പകർപ്പ്:

എൻവയോൺമെന്റൽ എഞ്ചിനീയർ  
ജില്ലാ ഓഫീസ്  
കൊല്ലം



**KERALA STATE POLLUTION CONTROL BOARD**

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Pattom P.O., Thiruvananthapuram – 695 004

പട്ടം പി.ഒ., തിരുവനന്തപുരം - 695 004



(Translation of Letter No. PCB/HO/GIS/01/2023

Dated 07.08.2023)

From

The Member Secretary

To

The Secretary  
Kollam Corporation  
Kollam - 691001

Sub: Kerala State Pollution Control Board - Ashtamudi lake, Manichithode -Inspection report

- Ref : 1. Hon'ble NGT order on 22/03/2023 of OA No. 147/2022  
2. Letter PCB/HO/EE-3/NGT/OA No.14/2022/06/2022 on 24.05.2023  
3. Govt. Letter No. M4/46/2022 – health part (1) on 03/05/2023  
4. Minutes of meeting on 26/05/2023

Sir/Madam,

The board has conducted inspection on areas of Ashtamudi, Manichithodu of Kollam Corporation on 12/06/2023 and the result of inspection is tabulated below.

SL. No.	Location	Findings	Action to be taken
1	Kuravanpalam, Manichithodu 1. Pullikkada colony 2. Alakkukadavu colony 3. Santhinagar 4. Shankarnagar 5. Harisreenagar 6. Aradhana nagar	Wastewater from houses were disposed directly into the thodu through pipes	Unauthorized outlets have to be identified and discharge should be prevented
2	Vikas Nagar Street No. 6 (Polayathodu)	Found that waste has been disposed directly into the thodu. Coliform presence of 900 MPN/100ml was found from the water sample.	Waste disposal shall be prevented. Protective fences are to be constructed.

	Ashtamudi lake 1. Infront of KSRTC Bus Stand 2. Below the platform of Boatjetty terminal 3. Infront of Poyilakkada fisheries 4. Nearby Houseboat terminal	drains directly disposed into the lake	prevent such discharge.
4	1. Ashtamudi Lake (KSRTC – Manichithodu stretch) 2. Thopilkadavu	Both biodegradable and non biodegradable waste were seen accumulated in nearby areas and were found floating in the lake	Measures are to be taken to remove waste deposited in the lake and nearby areas.

The Manichithodu stretch from back side of Vimala Hridaya School to Kadappakkada Kollam – Kottarakkara road, has been found covered by slab. Coliform presence is observed in the water sample taken from NTV Nagar near Railway culvert. It is also observed to be polluted by domestic waste. It should be ensured that no untreated wastewater from houses and institutions reach the lake.

Moreover, the details (quantity and disposal methods) of segregated solid waste (both biodegradable & Non bio-degradable) are to be reported. Urgent action shall be taken and report is to be submitted with time bound proposal for short term and long term activities to rectify the above defects.

Yours faithfully,

Sd/-

**MEMBER SECRETARY**

**Encl: As above**

**Copy to:**

**Environmental Engineer  
DO, Kollam**

വീജ്യണൽ അഫീസ്

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

**KERALA STATE POLLUTION CONTROL BOARD**

Pattom P.O., Thiruvananthapuram – 695 004

പട്ടം പി.ഒ., തിരുവനന്തപുരം - 695 004

☎: General: 0471- 2312910, 2318153, 2318154, 2318155

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PCBRTM/9/2024-AE2

Date : 02/07/2024

From

The Chief Environmental Engineer

To

The Assitant Executive Engineer,  
Harbour Engineering Department.  
Sub Division Office, Kollam

Sub: OA 185/2024 of Hon'ble NGT, Microplastic Pollution in Ashtamudi Lake - reg

Ref: 1. Order dated 29.05.2024 of Hon'ble NGT(SZ) on OA 185/2024.

2.Meeting held on 22.06.2024 at Head Office

Sir/Madam,

Kind attention is invited to the ref cited above. The Honourable NGT based on the news item published in The Hindu, Chennai Edition dt. 24.05.2024 titled, "Microplastics found in Ashtamudi Lake" has registered a suo moto case as O.A no 185/2024. A copy of the court order of the above said case dated 29.05.24 is enclosed here with. In this context it is requested to furnish the status report on the activities involved under "Suchithwa Sagaram" project with specific emphasis to agencies/bodies involved, action plans, achievements, details of collection and disposal of Plastic Waste, vulnerable areas, future action plans/proposals etc. The next hearing of the above mentioned case is posted on 08.07.2024. Hence it is requested to furnish the above requested details at the earliest.

Yours faithfully

*Vinay*  
Chief Environmental Engineer

KERALA STATE POLLUTION CONTROL BOARD



Enclosure :As above

Copy to,

1. Member Secretary,  
Kerala State Pollution Control Board, Head Office, Thiruvananthapuram
  
2. Environmental Engineer,  
Kerala State Pollution Control Board, District Office, Kollam