

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

ORIGINAL APPLICATION NO.27 OF 2021 (SZ)

**Tribunal on its own motion
Suo Motu based on the news
item in The Hindu E-Paper, Edition
dt. 28.01.2021, "Faecal contamination
high in Perandoor, Edappally Canals" : Applicant(s)**

Versus

**The Principal Secretary to
Govt of Kerala, Environment
Department & Ors. : Respondent(s)**

**UPDATED STATUS REPORT FILED BY THE CHIEF
ENVIRONMENTAL ENGINEER, REGIONAL OFFICE, ERNAKULAM
FOR AND ON BEHALF OF THE 4th RESPONDENT AS PER THE
ORDER DATED 02.02.2023 IN THE ABOVE CASE**



Dated this the 18th day of March 2023

**Adv. Rema Smrithi,
ADDITIONAL STANDING COUNSEL FOR THE 4th RESPONDENT**

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Dated this the 18th day of March 2023

Adv. Rema Smrithi,
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THE 4th RESPONDENT AS PER THE ORDER DATED 02.02.2023 IN THE
ABOVE CASE**

I, Baburajan P K , aged 52 years, S/o P.A. Kuttappan(Late), now working as Chief Environmental Engineer, Regional Office, Kerala State Pollution Control Board, Ernakulum. I am competent to and duly authorized to represent the 4th Respondent in OA 27 of 2021. I know the facts and circumstances of the case. The factual submissions made here under are true and correct to the best of my knowledge, information and belief. In these circumstances, it is just and necessary that this Hon'ble Tribunal may be pleased to accept the accompanying information on file and it is so humbly prayed in the interests of justice in this case.




BABURAJAN P.K.
Chief Environmental Engineer

1. It is respectfully submitted that in compliance with the order of the Hon'ble National Green tribunal in OA 27/2021, Board has taken steps to identify the industries/establishments located along the banks of the canals and along the banks of the drains leading to the canal. 167 apartments/ restaurants are so far identified as having no valid consent from the Board/ no sewage treatment plant / non-functional sewage treatment plant. Notice under section 33A of the Water (Prevention & Control of Pollution) Act, 1974 was issued to those 167 apartment/ restaurants. List of the units issued with show cause notice is produced herewith and marked as **Annexure-1**.
2. It is also submitted that the Board has issued a Show Cause Notice to Kochi Corporation to show reasons for not levying Environmental Compensation for the failure of preventing the pollutants being discharged in water bodies and failure to implement waste management act/ rules, as per order of Hon'ble NGT in OA No. 593/2017. Copy of the Notice is produced herewith and marked as **Annexure-2**.
3. It is humbly submitted that in the order of Hon'ble NGT dated 02.02.2023, it is directed that temporary measure like Phytoid Wastewater Treatment Technology which is developed by the NEERI are implemented till the completion of works which result in permanent solution. Accordingly, NEERI was addressed for reporting whether the study can be taken up by NEERI and to submit proposal. Email reply received from NEERI on 7.3.2023 intimating their willingness to provide scientific and technical support and requested for an online discussion to know the issue of pollution. An online presentation was arranged on 13.03.2023 for officials of local bodies, Suchitwa mission and the Board in the subject matter. Minutes of the presentation is produced herewith and marked as **Annexure-3**. Further action is being taken in this regard.
4. In continuation to the public awareness program conducted on 21.01.2023, with all stake holders and concerned authorities, efforts have been taken to implement




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the decisions taken in the meeting. Field visit by the joint committee constituted by the Hon'ble National Green Tribunal (Principal Bench) in O.A no.147/2022 related to the pollution of Ashtamudi – Vembanad Lake, was also convened to analyse the situation on 23.02.2023. A copy of the site visit report is produced herewith and marked as **Annexure-4**.

5. Railway station at Ernakulam Junction is identified as one of the major contributor of pollution in Perandoor canal. Though Integrated Consent to Operate was issued to Railway station at Ernakulam Junction valid up to 31/03/2023 with a condition to set the Sewage Treatment Plant, STP is not yet provided and also the area behind the loco shed situated in the South Railway station is contaminated with oil. Several instructions/ notices had been issued to the Railway from the Board. No action has been initiated for the remediation of oil contaminated area till date. The matter has been brought to the notice of the Central Pollution Control Board. Copy of the letter is produced herewith and marked as **Annexure-5**.
6. It is humbly submitted that in Kochi, there are two common STPs, 5 MLD STP at Elamkulam of Kerala Water Authority and 750 KLD STP of GCDA at Kaloor. Of the above, only 3 MLD capacity is utilized in Elamkulam plant and 30 KLD in Kaloor plant. Hence repeated directions were issued from the Board to Kochi Corporation, Kerala Water Authority (KWA) and Greater Cochin Development Authority (GCDA) for the full utilization of the installed capacity. Copy of the letters issued is produced herewith and marked as **Annexure-6**. KWA and GCDA reported to make arrangements for full utilization of their plants by 31.05.2023. Kochi Corporation was also requested to report the status of licensing of unregistered tankers and implementation of online tracking system for wastewater tankers, but no action has been so far reported. The matter is being followed up.




BABURAJAN P.K.
 Chief Environmental Engineer

7. It is important to be noted that the DPRs prepared by Kochi Metro Rail Limited duly vetted by CUBE-IIT Chennai for STPs and sewer line at Muttar, Perandoor, Vennala, Elamkulam for an amount of Rs.324.28 Crore, Rs.232.68 Crore, RS 499.26 Crore , Rs.367.63 Crore respectively were forwarded to the Secretary, Ministry of Jal Sakti for the consideration of getting funding under NRCD. Copy of the letter is produced herewith and marked as **Annexure-7**. The installation and proper operation of the above Sewage Treatment Plants is the prime solution for prevention and control of contamination of the canals in Ernakulam District, especially, the Perandoor and Edappally canals.

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

Dated this the 18th day of March 2023




Chief Environmental Engineer
BABURAJAN P.K.
Chief Environmental Engineer

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Dated this the 18th day of March 2023

Adv. RemaSmrithi,
ADDITIONAL STANDING COUNSEL FOR THE 4TH RESPONDENT

Annexure 1								
Details of establishments / units for which notice issued as per Minutes of Meeting held on 25/02/2023 on the matter of OA 147/2022								
Sl No	Date	Company	Type of unit(Apartment/ Commercial building/Hotel/ Resort/Industry/ others)	District	PCB office	LSGI	Findings	Notice
1	01.03.2023	M/s Century terrace Yuvajana Samajam road,kadavatra 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
2		M/s ABM Tower behind GCDA, Kadavantra 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
3		M/s Penta queen apartment B2 Padivattom, Edapally - 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
4		M/s Penta queen apartment B3 Padivattom, Edapally - 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
5		M/s Penta queen apartment A Padivattom, Edapally - 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
6		M/s Penta queen apartment C Padivattom, Edapally - 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
7		Galaxy Arcade Peediakkal road SRM Road - 682018	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
8		M/s West Rock One Apartment P J Anony Road Pachalam - 682012	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
9		M/s Watermelon Apartment Kathrikadavu, Kaloore 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
10		Vigyana sagar hostel Marine engineering training institute Giri nagar, Shipyard Ltd.	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
11		Vanshika Apartments Vidhta nagar road Panampilly nagar- 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
12		The tapioca restaurant mylady chambers, pottakuzhi rd, kaloore- 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
13		Star homes south star Kathrikadavu, Kaloore 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued

14		Skyline Zircon Apartment panampilly link road,Kadavantra 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
15		Skyline Marble Arch Apartment owners, Kattakar road west, Kathrikadavu 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
16		Galaxy Wintage Apartment Aryapadam Lane, Mamangalam Elamakkara, 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
17		J K Royal House Kathrikadavu, Kaloor 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
18		J M Manor Link avenue road, Kaloor 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
19		Little Soi. Aditya tower Panampilly nagar 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
20		NB Spring Terrace Apartment Tagore lane, Elamakkara 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
21		PMJ Towers Vidhya nagar, Kadavantra 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
22		Presidency Homes Journalist Colony, Kathrikadavu 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
23		Skyline Belair Apartment Shihab Thangal Road Panampilly nagar, 682036	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
24		Dadd's Extended stay Canal road, Gandhinagar	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
25		D D Rose Gate Kadavantra, Ernakulam 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
26		Vinayaka Boys hostel Banerji road, Kaloor 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
27		The wood Ford Yuvajana samajam road. Kadavantra 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, STP not working	Issued
28		Namasita Apartment, Vidhya nagar road, Panampilly nagar, 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued

29		Skyline Primrose, Pachalam, Pottakuzhi road, Mamangalam- 682018	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, STP not working	Issued
30		Kalpaka Rajmahal Apartments, BTS Road, Edappally 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
31		Amar Samrat Apartments, Kathrikadavu- 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, STP not working	Issued
32		ACE Homes, Kaloor, Kochi- 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, STP not working	Issued
33		Jewel Oak Field, SRM Road, Kaloor, Kochi, 682012	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, STP not working	Issued
34		Mandalay Point Flat, Edappally, NH 66 Service road, 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
35		Dreamflower Bonita Owners Association (DBOA), Green Ripple Road, Swamipadi, Elamakkara, Ernakulam - 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, STP not working	Issued
36		Malabar Gate Apartments, Marottichodu Road, Edappally – 682 026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
37		Galxy Homes Galaxy Dane Vidya Nagar Panampilly nagar, 682036	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, STP not working	Issued
38		Galaxy Marvel Apartment, Edappally Raghavan pillai road 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
39		Rds Avenue One, Shihab Thangal Road Near Passport Office Panampilly Nagar, 682036	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
40		The Salt Restaurant, 16/1444, Thoppumpady, Kochi, Ernakulam – 682 005	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
41		Galaxy Hamilton, Galaxy Kingston, Galaxy Winston, Chilavannoor Road, Chilavannoor, Kadavanthra, Kochi – 682 020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
42	15.03.2023	BLUE LAGOON APARTMENT, VMRRA - 110, MARKET ROAD VADUTHALA 682023	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
43		HORIZON DAFFODILS,PADAM ROAD, VADUTHALA, ERNAKULAM, 682023	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
44		J.M HABITAT,SHASTRI ROAD, VADUTHALA ERNAKULAM, 682023	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
45		J.M TOWERS ,VADUTHALA ERNAKULAM, 682023	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
46		J.M GARDEN,VADUTHALA, ERNAKULAM, 682012	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued

47		ORIENT PARK,POPULAR ROAD, VADUTHALA KOCHI, 682012	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
48		LORDS COTTAGE,KARSHAKA ROAD, VADUTHALA ERNAKULAM, 682012	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
49		GALAXY METRO EDAPPALLY RAGHAVAN PILLAI RD, ELAMAKKARA, ERNAKULAM, KERALA - 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
50		SPARKLE SCAPES APARTMENTS, TAGORE LANE, ELAMAKKARA, ERNAKULAM, 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
51		MON AMOUR APARTMENTS, ELAMAKKARA, KOCHI, 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
52		MON COEUR, VIVEKANANDA NAGAR ROAD, ELAMAKKARA,ERNAKULAM - 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
53		LOTUS ENCLAVE Puthukkalavattom Rd, Elamakkara, Kochi, 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
54		ANASWARA SOUPARNIKA Puthukkalavattom Rd, Elamakkara, Kochi, Kerala 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
55		RDS FLAIR, EDAPPALLY RAGHAVAN PILLAI RD, ELAMAKKARA, ERNAKULAM - 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
56		CVC CALISTA EDAPPALLY RAGHAVAN PILLAI RD, ELAMAKKARA, ERNAKULAM - 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
57		DREAM FLOWER SONATA Mercy Lane 2, Elamakkara, Ernakulam, Kerala 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
58		DREAM FLOWER ZETA Punnakal Mercy Lane, Punnakal, Elamakkara, Kochi, Kerala 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
59		GOOD EARTH HEAVEN, Perandoor Rd, Mamangalam, Elamakkara, Ernakulam, Kerala 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
60		VB ROYAL, opp. Gayathri Kalayanamadapam, Edappally, Ernakulam, Kerala 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
61		KALPAKA CASTLE, Subhash Nagar Elamakkara, Subhash Nagar Road, Ponekkara, Edappally, Kochi, Kerala 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
62		ABAD OLYMPUS APARTMENT,Near Madom Junction, Edappally Ragavanpillai Road, Edappally P. O., Kochi, Kochi, Kerala 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
63		ORION APARTMENT, OPP. AL AMEEN PUBLIC SCHOO;, CHERANALLOOR, EDAPPALLY	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
64		NATIONAL AVENUE, National Avenue, Manimala Cross Road, Ponekkara, Edappally, Ernakulam, Kerala 682024,	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
65		NATIONAL NANDANAM, Edapally Palace Rd, Ponekkara, Edappally, Ernakulam, Kerala 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued

66		ANASWARA SOUPARNIKA APARTMENT Puthukkalavattom Rd, Elamakkara, Kochi, Kerala 68202A	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
67		SI flat,Kurishupally Rd, Ravipuram, Perumanoor, Ernakulam, Kerala 682036	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
68		KB plaza flat, K B PLAZA OWNERS ASSOCIATION ELAMMAKARA ROAD EDAPPALLY, Kerala is 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
69		Pooja flat, Thamburatti Parambu Rd, Mamangalam, Elamakkara, Ernakulam, Kerala 682565	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
70		Galaxy cherry wood, Kaloore, Kochi, Kerala 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
71		OLIVE GARDENS, NH BYPASS, NEAR OBERON MALL, PADIVATOM, EDAPALLY, ERNAKULAM, 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
72		REGAL APARTMENTS, STADIUM ROUND, JAWAHARLAL NEHRU INTERNATIONAL STADIUM, KALOOR, KOCHI, 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
73		REGAL PALMS, ERAMATH W RD, CHEMBUMUKKU, EDAPALLY, ERNAKULAM, 682037	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
74		JM Crescent Apartments, P.J. Antony Road, Sonia Nagar, Mamangalam, Edapally, Ernakulam - 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
75		Infra Splendor Apartments, Edappally, Ernakulam - 682565	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
76		Sky park residency, Janatha Rd, Mamangalam, Elamakkara, Kochi - 682025	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
77		Mayura Apartments, 3rd Cross Rd, Girinagar Housing olony, Giri Nagar, Kadavanthra - 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
78		Galaxy vesta 2845+R39, Punathil Padam Rd, Sonia Nagar, Padivattom, Palarivattom, Kochi, Kerala 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
79		Garden court 277W+XJC, Elamakkara, Kochi, Kerala 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
80		Sapphire heights Vennala, Ernakulam, Kerala 682028	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued

81	Kent illam Vennala, Ernakulam, Kerala 682028	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
82	National empress Garden apartments 33/442D, Vennala High School Rd, Arakkakadavu, Vennala, Kakkanad, Kerala 682028	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
83	Yeshoram tejus apartments 283C+FP5, Vennala High School Rd, Vennala, Ernakulam, Kerala 682028	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
84	Panjos apartments 2869+8MV, Civil Line Rd, Chembumukku, Edappally, Ernakulam, Kerala 682021	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
85	Halton heights 2848+4JV, Alinchuvadu Road, Vennala, Kochi, Kerala 682028	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
86	Kanchenjunga Apartments 2836+H7V, Civil Line Rd, Kesaveeyam, Palarivattom, Ernakulam, Kerala 682025	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
87	Moon Stone Residency Nethaji Rd, Nethaji Nagar, Kadavanthra, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
88	Asset home Panampilly Nagar, Ernakulam, Kerala 682036	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
89	Yashoram abode, Draupathy road X8M4+9CX, Thammanam - Pullepady Rd, Draupathi Lane, Thammanam, Ernakulam, Kerala 682032	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
90	Unitac avonlea X8JF+4GP, Dhanya S Rd, Chalikkavattom, Vennala, Ernakulam, Kerala 682028	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
91	Highway gardens, 1914, Mambra Rd, Ponnurunni, Vyttila, Kochi, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
92	Plum flower, Nursery school road X8JC+449, Ponnurunni, Vyttila, Ernakulam, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued

93	Royal park, Service Rd, Ponnurunni East, Ponnurunni, Vyttila, Ernakulam, Kerala 682028	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
94	Mather Serene Orchard X832+GJ9, Vidya Nagar Rd, Vidya Nagar, Kadavanthra, Kochi, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
95	Jewel planet, Vaikom road, Vyttila SH15, Vyttila, Ernakulam, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
96	Santhi river dail, Vaikom road, Vyttila	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
97	Vrindavan apartment, Vyttila junction	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
98	Aiswarya Apartment, Chambakkara - Kannadikadu Road	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
99	Lotus A/C city, Bhuvaneswari Temple Rd, near Chambakkara, Chambakkara, Upasana Nagar, Maradu, Ernakulam, Kerala 682304	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
100	ToCH Retreat flat, Janatha road, Vyttila	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
101	Choice garden, TocH road end, Vyttila	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
102	Jewel homes, Vyttila Janatha road, near manamel temple	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
103	DLF riverside, near manamel temple, Vyttila Janatha road	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
104	Paradise tower, south Chittoor, Chittoor 682027	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
105	Galaxy high field, Vidya nagar, Panampilly nagar 682036	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
106	Metro paradise apartment, Chittoor Cheranalloor road, Amrita nagar, Edapally, Ernakulam 682024	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
107	Sparcle scape apartment, Tagore lane, Elamakkara 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
108	Zaatar Restaurant, HP 17,Main Avenue, Panampilly Nagar, Ernakulam, 682036	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
109	Fruitbae, Panampilly, 5th Cross Rd, K.V. Nagar, Panampilly Nagar, 682036	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
110	Starbucks,G-258, Main Avenue, MIG Housing Society, Panampilly Nagar, Kochi - 682036	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued

111		Coldstone, Door No. 56/299, Panampilly Nagar, Main Avenue, Opp. Hotel Aryas, 682036	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
112		Kunafa World, HIG,36 , Panampilly Nagar, Main Avenue, Kochi - 682036	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
113		Ali Baba and 41 Dishes, 27/701, Panampilly Main Rd, Opp. South Indian Bank, MIG Housing Soccity, 682036	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
114		Happy Cup Cafe, Main Avenue, MIG Housing Soccity, Panampilly nagar, kochi - 682036	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
115		Juicy, Panampilly Nagar, Service Rd, Main Avenue, 682036	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
116		Gokul Oottupura, Vegetarian Restaurant, Ground floor, Ittys Building, Main Avenue, MIG Housing Soccity, Panampilly Nagar, 682036	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
117		Bab Arabia, 56/2568, Opp. YES Bank, SBT Ave, Panampilly Nagar, 682036	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
118		Heatz - Healthy Eating Zone, Ambalathingal House, Kizhavana Road, Panampilly Nagar, 682036	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
119		Burger Junction, Kizhavana Rd, Above Union Bank, Panampilly Nagar, 682015	Restaurant	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
120		ABCG Midtown Pavamana Heights, Shihab Thangal Road, Panampilly Nagar, Ernakulam, Kerala 682015	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
121		Mansion kharisma X73X+HGM, Shihab Thangal Road, Panampilly Nagar, Ernakulam, Kerala 682015	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
122		Ac Pacific rose apartments X74X+3C7, Panampilly Nagar, Ernakulam, Kerala 682015	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
123		Aurum Residences, SBT Ave, Panampilly Nagar, Kochi, Kerala 682036	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
124		Skyline Royale X75X+33H, Panampilly Nagar Link Rd, LIG Housing Society, Panampilly Nagar, Ernakulam, Kerala 682036	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
125		SS Enclave G278, Panampilly Nagar Ave, MIG Housing Society, Panampilly Nagar, Ernakulam, Kerala 682036	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued

126	Kairali Apartments X74W+4PF, Panampilly Nagar Ave, Panampilly Nagar, Kochi, Kerala 682036	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
127	Royal Stadium Mansion Market Road, Market, near Kadavanthra, Gandhi Nagar, Kadavanthra, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
128	Jewel homes Canal, Mamangalam, Elamakkara, Ernakulam, Kerala 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
129	Holiday Grandeur X7HV+VW9, P.O, Chemmath Rd, Gandhi Nagar, Kaloar, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
130	Marvel Mansions X7JX+W3Q, Thammanam - Pullepady Rd, Kathrikad Kaloar, Ernakulam, Kerala 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
131	Pulickal Avenue, St Francis Xavier Church Rd, Kathrikadavu, Kaloar, Ernakulam, Kerala 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
132	DD nest Pipeline Rd, Kathrikadavu, Thammanam, Ernakulam, Kerala 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
133	IMA House Behind Jawaharlal Nehru International Stadium, Kathrikadavu, Palarivattom, Kochi, Kerala 682025	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
134	jewel pearl X8Q2+99C, Vattaparambu West Lane, Kathrikadavu Kaloar, Ernakulam, Kerala 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
135	Kent hail garden X8R2+7HM, Kathrikadavu, Kaloar, Ernakulam, Kerala 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
136	Vismaya Apartments Kaloar, Kochi, Kerala 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
137	Seiken Eastend Ponoth Rd, Kaloar, Ernakulam, Kerala 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued

138		Vanchinad Residency Apartment Kaloor, Ernakulam, Kerala 682017	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
139		Green city Orchid 275W+F8P, Pottakuzhi - Mamangalam Rd, Mamangalam, Elamakkara, Ernakulam, Kerala 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
140		Dream Flower Celesta Vivekananda Nagar Rd Extention, Elamakkara, Ernakulam, Kerala 682026	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
141		Orient Park Vaduthala 276J+V8X, Popular Road, Vaduthala, Kochi, Kerala 682012	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
142		Kayaloram Apartments Thevara Ferry Road, Thevara, Ernakulam, Kerala 682013	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
143		Seiken Sailwind W7PW+CW9, Pandit Karuppan Rd, Thevara, Ernakulam, Kerala 682013	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
144		Chakolas Waterford Pandit Karuppan Rd, Thevara, Ernakulam, Kerala 682013	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
145		Avern Pass W7PX+MV4, Thevara, Kochi, Kerala 682013	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
146		Galaxy clifford Neptune Country, Chilavannoor, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
147		Sylvan Heights X835+8C4, Chilavannur Rd, Vinoba Nagar, Chilavannoor, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
148		Heera Waters, X836+CQQ, Bund Rd, Chilavannoor, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
149		Perals Gardens View , Amalabhavan Rd, near Kochu Kadavanthra, Vinoba Nagar, Chilavannoor, Kochi, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued

150		Yasoram Pancharatna Apartments X877+96J, Toc-H Rd, Near Janatha Road, Janatha, Vyttila, Ernakulam, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
151		Yasoram Valluvassery Enclave X875+793, Water Land Rd, Chilavannoor, Kochi, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
152		Jomer Residency Apts Ravindran Rd, Chilavannoor, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
153		Fern Icon Panchavati Colony, Vyttila, Ernakulam, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
154		Panchavadi Apartment X8C5+FMV, Panchavati Colony, Vyttila, Kochi, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
155		Pittappillyi Enclave X8C5+F9R, Panchavati Colony Rd, Panchavati Colony, Kadavanthra, Kochi, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
156		Orchid Court Apartment X8C5+FCX, Panchavati Colony Rd, Panchavati Colony, Vyttila, Ernakulam, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
157		Blue moon pearl apartment X8F5+2P7, Vyttila, Kochi, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
158		Abad Harmony Paradise Rd, Vyttila, Kochi, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
159		Paradise Apartment PRRA-18, Vyttila, Kochi, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
160		Betron Towers Elamkulam, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
161		Jerusalem Residency Blossom Road, Elamkulam, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued

162	Golden Heights Apartments X79X+7RQ, Excel Rd, Elamkulam, Kochi, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
163	Nakshatra Malika Apartment Kunjanbava Rd, Ponnurunni, Vyttila, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
164	Bluemoon Apartments Emerald and Ruby Ponnurunni, Vyttila, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
165	Skyline rosemount Kunjanbava Rd, Ponnurunni, Vyttila, Kochi, Kerala 682019	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
166	Abad Silver Crest Subhash Chandra Bose Rd, Kadavanthara, Jawahar Nagar, Elamkulam, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued
167	Skyline City Park X8F2+R89, Jawahar Nagar Ave, Jawahar Nagar, Kadavanthra, Ernakulam, Kerala 682020	Apartment	Ernakulam	Ernakulam DO1	Kochi Corporation	No Consent, No STP	Issued



☎ General: 0471- 2312910, 2318153, 2318154, 2318155 Chairman: 2318150 Member Secretary: 2318151
E-mail: ms.kspcb@gov.in FAX: 0471 - 2318134, 2318152 web: www.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

PCB /HO/EE3/NGT/O.A No.147/2022/06/2022

Date: 15/03/2023

Regd. with A/D

SHOWCAUSE NOTICE

Sub: Non-compliance of Water (Prevention and Control of Pollution) Act 1974

Ref: 1. Water Act (Prevention and Control of Pollution) 1974

2. Environment Protection Act 1986

3. The Hon'ble NGT order dated 28.08.2019 in OA No.593/2017

4. Order dated 02/02/2023 in OA 27/2021 of Hon'ble NGT (SZ)

5. Order dated 06/01/2023 in OA 147/2022 of Hon'ble NGT (PZ)

WHEREAS the Central Government notified the Water (Prevention and Control of Pollution) Act, 1974 (hereafter referred to as Water Act) for the prevention and control of water pollution and the maintaining or restoring of wholesomeness of water;

WHEREAS as per Section 24 of Water Act disposal of Polluted matter to stream or well is prohibited

WHEREAS as per Section 24(a), no person shall knowingly cause or permit any poisonous, noxious or polluting matter determined in accordance with such standards as may be laid down by the State Board to enter (whether directly or indirectly) into any [stream or well or sewer or on land];

WHEREAS as per Section 24(b), no person shall knowingly cause or permit to enter into any stream any other matter which may tend, either directly or in combination with similar matters, to impede the proper flow of the water of the stream in a manner leading or likely to lead to a substantial aggravation of pollution due to other causes or of its consequences.

WHEREAS it is observed that the quality of waterbodies in the Kochi Corporation is not conforming to standards prescribed under Environment Protection Rules, 1986;

WHEREAS high level of fecal coliforms in the waterbodies indicate the contamination due to improper treatment and disposal of sewage generated in the Corporation area;

WHEREAS there are cases in Hon'ble NGT (OA 27/2021 & OA 147/2022) on deterioration of water quality of drains and Vembanad lake ;

WHEREAS the Hon'ble National Green Tribunal vide Order dated 22/02/2021 in OA 593/2017 laid down compensation scale for continued failure in implementation;

WHEREAS in various other application also, the Hon'ble NGT passed similar orders, for instance, in the Order dated 20/11/2018 in O.A. No.117/2014, 499/2014 and 102/2014 (ref. 16) the Hon'ble NGT noted as; "Needless to say that statutory authorities under the Environment (Protection and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974 are entitled to assess and recover damages as "Polluter Pay's Principle" in exercise of incidental powers to protect environment".

WHEREAS as per Hon'ble NGT order dated 23/09/2019 in O.A.585/2018, if the rules are violated, the Pollution Control Board can independently proceed against local bodies who are not complying with the rules including initiation of prosecution of those person who are not complying with the same and assessment of damage caused to the Environment;

WHEREAS as per Hon'ble order of NGT dated 28/08/2019 in OA 593/2017 Environment Compensation shall be levied for failure of preventing the pollutants being discharged in water bodies and failure to implement waste management rules and Environment Compensation shall be estimated based on Individual/Authority, capital cost of STP for 1MLD as Rs. 1.75 Cr/MLD (marginal average cost); cost of conveyance system as Rs. 5.55 Cr/MLD (marginal average cost) and annual O&M cost as 10% of the combined capital cost;

AND WHEREAS it is noted that 70 MLD waste water (sewage&sullage) is generated in Corporation area based on population and the improper treatment and disposal of waste water has led to the deterioration of water quality in water bodies;

NOW THEREFORE, in exercise of the powers vested under Section 33 A of the Water (Prevention and Control of Pollution) Act, 1974 you are directed to show cause reasons within 15 days as to why Environmental compensation shall not be imposed as per the order of NGT in OA 593/2017, against the Corporation for the non-compliance of the Water Act.


CHAIRMAN

To

The Secretary,
Kochi Corporation

Copy to:

- | | | |
|---|---|------------------------|
| 1. The Additional Chief Secretary
Local Self Government Department | } | (with covering letter) |
| 2. The Additional Chief Secretary
Environment Department | | |
| 3. The District Collector, Ernakulam | | |
| 4. The Director, Urban Directorate | | |
| 5. The Chief Environmental Engineer, Regional Office, Ernakulam | | |
| 6. The Environmental Engineer, District Office, Ernakulam | | |

**Minutes of the presentation by NEERI on 13.03.2023 regarding
Phytroid Waste Technology in the matter of
O.A. 27/2021 Perandoor Canal & OA 141/2021 Pallikkalar**

The meeting was convened via VC by the Chairman, Kerala State Pollution Control Board to view and assess the possibility of utilizing phytroid technology as a temporary measure for treatment of sewage as suggested by the NGT in the order dated 02.02.2023 on OA 27/2021 and in the order dated 16.02.2023 on OA 141/2021. Dr .Rithesh Vijay, Senior Principal Scientist and Head, NEERI ;Member Secretary KSPCB; Director, Waste Water Management Suchitwa Mission ;CEE ,Head office; CEE,RO, Trivandrum; CEE,RO, Ernakulam; Senior Environmental Engineer, Head Office, Environmental Engineers Kollam, Pathanamthitta, Alappuzha, Ernakulam, and representatives from Local Bodies namely Kadambanad, Pallickal, Thodiyoor, Poruvazhy attended the online presentation.

The Chairman, KSPCB at the outset gave a brief description about O A 141 and O A 27 and mentioned that as per the latest order NGT has observed that the methodology known as Phytoid Waste water Technology developed by NEERI was suggested to restore Pallikallar and Perandoor canal.

Dr .Rithesh Vijay , Senior Principal Scientist and Head ,NEERI presented the technology in powerpoint.

From the presentation it is presumed that only stones and aggregates along with plants are used in this technology. The existing and ongoing projects taken up by NEERI, with this technology was also shown, during the presentation.

Chairman enquired about the space requirement of the treatment plant and about the removal efficiency with respect to coliforms. Dr .Rithesh Vijay clarified that Scalability of this plant varies from 50 KLD to 50 Lakh litres per day, and upper portion works on aerobic principle and bottom portion works on anaerobic principle. So considerable reduction of coliforms will occur but disinfection is required after this.

The time period required for construction was reported as 3 to 4 months. The

Chairman further enquired whether any odour control facilities are associated with the method and Dr .Rithesh Vijay replied that sewage goes to subsurface and no water logging and stagnation and hence there will be no foul smell.

Dr. Praveen K S, Director Waste Water Management, Suchitwa Mission opined that NEERI is not executing any new projects and only gave consultancy service and they have empanelled agencies for execution. He enquired whether this method will be effective during flooding and Dr .Rithesh Vijay , NEERI replied that flooding will not affect the plant as this is constructed slightly above ground level.

The Chairman, KSPCB enquired about the total cost of construction and enquired whether it is a permanent method as NGT mentioned it as "a temporary measure". Dr .Rithesh Vijay , replied that though the initial cost for construction of RCC tank is high, the operational and maintenance cost is low and least .He also clarified that it can be considered as a permanent treatment solution and invited officials concerned for a site visit, to any of the visit where the system has been installed.

The Chairman concluded the meeting by stating that the matter would be informed to Additional Chief Secretary, Environment for filing the report to NGT and with permission, concerned officials can undertake a trip to the nearest such facility operated by NEERI.


CHAIRMAN

Report on Site Visit conducted by Committee members on 23-2-2023 in connection with orders of Hon'ble National Tribunal in OA 147/2022 on Vembanad lake and Ashtamudi lake

The Committee members visited the Vembanad lake and its surrounding area on 23-2-2023. Member Secretary, Kerala State Pollution Control Board; Director, Directorate of Environment and Climate Change, who is also the Member Secretary of SWAK and Kerala Coastal Regulation Zone; Directorate of Urban local bodies; Directorate of Panchayaths; District officials from Pollution Control Board, Industries department, local bodies were present during site visit. Prior information regarding the site visit was already conveyed to all committee members. All members except representatives from Tourism and Central Pollution Control Board were present. Central Pollution Control Board informed the inability to attend the meeting due to short notice.

1. Pallathuruthy, House boat landing area, Alappuzha Municipality(Fig.1)

The committee visited the houseboat landing area at Pallathuruthy. During visit, it was reported that Muthoot is having nine houseboats of which five are operational and the wastewater is collected in a collection tank and is diverted to sewage treatment plant for treatment. For the other houseboats, no such arrangements are provided at the site. Health official from the Alappuzha Municipality informed that they had already arranged a meeting with Houseboat association and Pollution Control Board on 24-2-2023. It was instructed to have arrangements for treatment of waste water from houseboats and to make arrangements for the collection of segregated solid waste from landing area to authorised collectors namely Haritha Karma Sena.

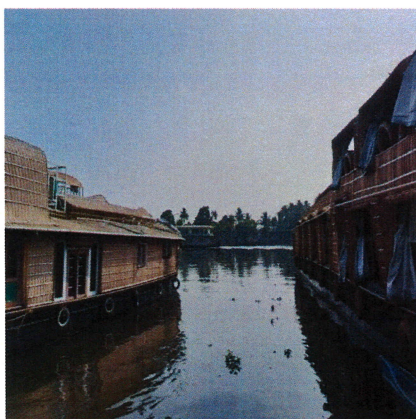


Fig. 1 Houseboat landing area, Pallathuruthy, Alappuzha

2. DEWATS system, Chathanad(Fig.2)

DEWATS system provided at Chathanad was visited. It is a decentralised waste water treatment system provided for a slum area with fifty houses. It consists of Anaerobic Baffle Reactor and constructed wetland and the maintenance cost is very low for such system. This system is operating for more than three years continuously. Health official of Alappuzha Municipality informed that they are providing such system at Alissery slum and Zakariah Bazar.



Fig.2 DEWATS, Chathanad, Alapuzha

3. Punnamada Finishing point of DTPC

There was no official from DTPC present at the site and hence was not able to discuss with them on the issues. The Officials from Alappuzha municipality were present at the site. Many big houseboats were seen landed in this area. The lake water in this area was seen polluted with waste water and plastic. The information regarding the disposal of waste water from these houseboats could not be collected due to the absence of officials of DTPC. Though a shed for thumbboormuzhi was provided by Municipality in the premises, it was seen not utilised.

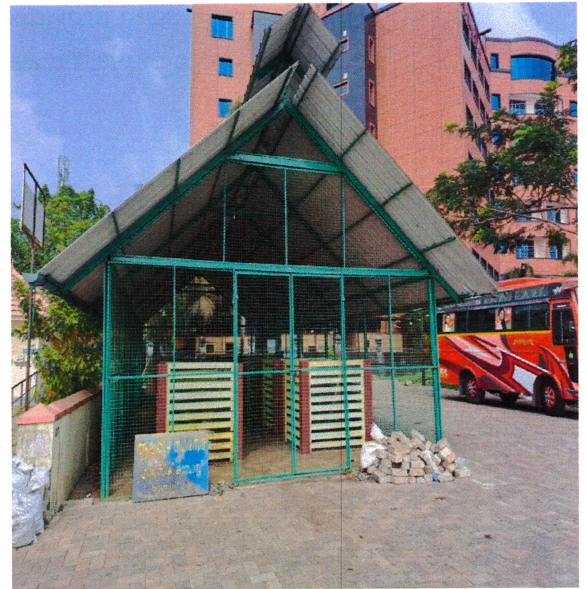


Fig.3 Houseboat landing area, Punnamada

4. Alappuzha Cherthala Canal

Alappuzha Cherthala Canal was seen covered with vegetation and there was no flow of water in this canal.



Fig.4 Alappuzha-Cherthala Canal

5. Faecal Sludge treatment plant, Cherthala (Fig.5)

The President, Vice President, Council Member and officials of Cherthala Municipality were present at the site. The construction of FSTP started and it was informed that the plant will be commissioned in eight to ten months. Material collection facility of

Municipality is seen provided near the site and electric auto was also seen provided for the conveyance of plastic waste.



Fig. 5 Cherthala Municipality FSTP, MCF, e-auto

6. Mega Food Park, Aroor-2 MLD CETP(Fig.6)

The committee members visited the Mega Food Park of KSIDC at Aroor. It is a 2MLD plant consisting of chemical addition, MBBR and filter press. Five factories have already been connected to this treatment plant and 500KLD is treated in CETP. The representative informed that action is taken to divert waste water from other factories to CETP. They were asked to report on the utilization of treated effluent.



Fig.6 CETP Mega food park, Aroor

7. Littering on road sides

Littering of solid wastes was observed on the road sides of Eramalloor paanchayath, Thykkattussery, and Chandiroor and also observed on the road sides of Oachira Municipality and also at Thammanam near HO petrol pump of Kochi Corporation.

8. Sea food factory, Keltron kadavu (Fig.7)

The committee members visited the CETP of sea food factory at Keltron Kadavu. It is also working underutilized.



Fig.8 Sea food factory-CETP, Aroor

9. Vembanad lake, Keltron kadavu(Fig.8)

Keltron kadavu of Vembanad lake, which is one of the water quality monitoring stations was visited. Some peeling units are situated near the drain in this area. This is an area having tidal influence.



Fig.8 Vembanad lake-Keltron kadavu

10. Aroor Industrial estate

The official from Aroor panchayath informed that there is discharge of waste water from the units in this area. It was instructed to have a joint inspection of Pollution Control Board, DIC and Panchayath in these units and to take action accordingly.

11. Apartment near Edappally thodu (Fig.9)

The Committee members visited an apartment near Edappally thodu, which was constructed before 2006 and having space limitation. The resident of the apartment informed that they have blocked the discharge into the canal. Also they informed that area near the lake has been acquired for the project of Water Metro.



Fig. 9 Apartment near Edappally canal

12. 750KLD GCDA plant, Kalloor (Fig.10)

The Committee members visited the GCDA plant at Kalloor. It is a 750 KLD plant of which only they are getting 30KLD. As they were taking waste water from hotels, high content of oil, maida created problems to their plant and is being rectified. Kochi Corporation officials and GCDA were asked to take action for the complete utilization of CSTP. The Additional Secretary, Kochi Corporation was asked to explore the possibility of full utilisation of CSTP by bringing waste water from nearby flats and hotels. Additional Secretary, Kochi Corporation informed that byelaw for registration of tankers and online tracking will be placed in the Council meeting on 28th February, 2023 and after that action will be taken for registering tankers.



Fig.10 CSTP GCDA, Kalloor

13. 5MLD plant of Kerala Water Authority at Elamkulam (Fig.11)

5 MLD plant of Kerala Water Authority at Elamkulam was visited. 3MLD waste water is reaching this plant and the plant is seen underutilized with a gap of 2 MLD. The Additional Secretary, Kochi Corporation was asked to explore the possibility of full utilisation of CSTP by bringing waste water from nearby flats and hotels. KWA official reported that Administrative sanction was obtained for dilution tank and will be commissioned by 31.05.2023 by modifying existing tank. The Additional Secretary Kochi Corporation informed that Counsel meeting for bye law of online tracking will be held on 28.02.2023 and after that action will be taken for registering unregistered tankers.



Fig. 11 CSTP of KWA, Elamkulam

14. Thanneermukkom barrage (Fig.12)

In the area near Thanneermukkom barrage, a large quantity of plastic wastes were seen littered. There was no bin provided the street vendors in this area. As per the Solid waste management rules, bins are to be provided by street vendors and the collected waste is to be collected by the concerned local body.



Fig.12 Thanneermukkom barrage

15. Common STP at Kumarakom for houseboats

Common STP for houseboats is having a capacity of 125 KLD. But only 25 KLD is treated here. This CSTP is also seen underutilized.



Fig.13 Common STP for houseboats at Kumarakom

Major observations:

1. CSTP of Kerala Water Authority at Elamkulam; CSTP of GCDA at Kaloor; CSTP at Kumarakom and CETP of Megafood park and Sea food park are seen underutilised and the same are to be made fully utilized.
2. Action is to be taken for the abatement of pollution from industrial units namely sea food processing units in Alappuzha by the joint efforts of DIC, PCB and local bodies.
3. Urgent action is required in the case of houseboats on the disposal of waste water and solid wastes by DTPC.

27-2-2023

Shree A J

Member Secretary

☎: General: 0471- 2312910, 2318153, 2318154, 2318155 Chairman: 2318150 Member Secretary: 2318151

e-mail: ms.kspcb@gov.in, FAX: 2318152 web: www.kspcb.kerala.gov.in



KERALASTATE POLLUTION CONTROL BOARD

കേരളസംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Pattom P.O., Thiruvananthapuram - 695 004

പട്ടം പി.ഒ., തിരുവനന്തപുരം - 695 004 .

PCB/HO/EE1/SOUTHERN RAILWAY/2023

Dated: 15/03/2023

From

The Member Secretary

To

The Member Secretary

IPC - VII, Central Pollution Control Board

Privesh Bhavan,

East Arjun Nagar,

Delhi - 110032

Sub: Status of compliance with consent conditions - Railway Stations in Kerala - reg.

Ref: 1) Order of the Honb'le NGT in O.A. No. 141/2014.

2) Letter No. PCB/HO/EE1/SOUTHERN RAILWAY/2023 dated 16/01/2023 & 20/01/2023.

3) Letter no. PCB/EKM/DO-1/OA 444/2015 dated 18/02/2021 & 20/12/2022 .

4) Consent Revocation Intention Notice No.PCB/EKM/DO-1/GEN-07/2021 dated 21/11/2022.

Sir,

Kind attention is invited to the matter cited above. The order of the Hon'ble NGT in OA No. 141/2014 specifies that the Railway Stations fall under the ambit of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981 and the Environment (Protection) Act, 1986 and the rules framed there under. Hence all the major Railway Stations are required to obtain Consent of the Board. Based on the order of the Hon'ble NGT all the major Railway Stations of Kerala had applied for Board's consent and consent was issued

to most of the Railway Stations with a condition to install the ETP within a stipulated time frame. Now it is noted that many of the railway stations have failed to provide the ETP yet, thus violating the condition of the consent issued by the Board. It has also come to notice of the Board that failure of providing proper 'waste water treatment plant in such stations has resulted in pollution of water bodies in the State. Board has brought the matter to the notice of the Divisional Railway Manager vide letter dated 16/01/2023 & 20/01/2023.

Regarding Kochi, deterioration of water quality of drains of Vembanad lake is viewed seriously by Hon'ble NGT in OA 27/2021 (SZ) and OA 147/2022 (PZ). Ernakulam Junction which is a major railway station in Kerala is a contributor of pollution of water bodies in Kerala. This station is issued Integrated Consent to Operate valid upto 31/03/2023 with a condition to set up the Sewage Treatment Plant. But STP is not yet provided and also the area behind the diesel loco shed situated at the South Railway station is contaminated with oil. Though several instructions/ notices had been issued to the railways from the District Office of the Board, no action is initiated for the remediation of oil contaminated area till date. Since the site is severely contaminated with oil sludge which is hazardous in nature it was directed to take immediate action to remediate the area. Advice regarding methodology to be adopted for remediation work had also been issued. Despite the above facts neither the remediation work is taken up nor the STP is constructed. Since such inaction on the part of Railways may impair the quality of nearby water bodies the issue needs urgent resolution. It is requested that your good self may kindly intervene in the matter and necessary instructions to the concerned authorities may please be issued in this regard.

Yours faithfully,

S. S. A. T.

MEMBER SECRETARY



KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Pattom P.O., Thiruvananthapuram - 695 004

പട്ടം പി.ഒ., തിരുവനന്തപുരം - 695 004

PCB /HO/EE3/O.A No.27/2021(SZ)/2021

Date: 31/01/2023

From

The Member Secretary

To

1. The Managing Director
Kerala Water Authority
JalaBhavan, Nandavanam,
Vellayambalam
Thiruvananthapuram
2. The Secretary,
Kochi Corporation.

Sub:- Full utilization of 5MLD CSTP at Elamkulam-reg.

Ref:- 1.Letter No. PCB/HO/EE3/NGT/673/2018/VOL-IX/24/2021 dated
20/10/2022

- 2.Report of awareness programme on 21/01/2023 in connection with
O A27/2021
3. Minutes of the meeting held on 21/01/2023 in connection with
OA 27/2021
4. Order dated 02/01/2023 in OA 27/2021

Sir,

Attention is invited to the references. In the meeting held on 21/01/2023 it was suggested to fully utilize the underutilized new 5MLD STP at Elamkulam by collecting wastewater through tankers as laying of sewerline network for 1.75 MLD is under DPR stage and also there is space limitations in old high rise buildings for providing STP. The list of establishments having no STP is enclosed. The efficiency of existing old sewerline may also be reported. Please take urgent action and report the action plan with timeline urgently.

Yours faithfully,

MEMBER SECRETARY

Copy to : 1) The Chief Environmental Engineer
Regional Office, Ernakulam
2) The Environmental Engineer
DO-1, Ernakulam

} For follow up



KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Pattom P.O., Thiruvananthapuram - 695 004

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PCB /HO/EE3/O.A No.27/2021(SZ)/2021

Date: 31 /01/2023

From

The Member Secretary

To

1. The Secretary,
Kochi Corporation.
2. The Secretary,
Greater Cochin Development Authority (GCDA)
Kadavanthra P. O.
Ernakulam District-682020

Sub:- Full utilization of 750KLD STP of GCDA at Kaloor stadium-reg.

Ref:- 1.Minutes of the meeting of stakeholders departments held on 21/01/2023 in connection with OA 27/2021

2.Report of awareness programme on 21/01/2023 in connection with O A27/2021

3.Order dated 02/01/2023 in OA 27/2021

Sir,

Attention is invited to the references. In the meeting held on 21/01/2023 it was suggested to fully utilize the underutilized 750KLD STP at Kaloor by collecting waste water through tankers and it is reported that actions are already initiated in this regard. You are requested to report the action plan with timeline urgently.

Yours faithfully,

MEMBER SECRETARY

- Copy to :1) The Chief Environmental Engineer
Regional Office, Ernakulam
2) The Environmental Engineer
DO-1, Ernakulam



KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Pattom P.O., Thiruvananthapuram - 695 004

പട്ടം പി.ഒ., തിരുവനന്തപുരം - 695 004

PCB /HO/EE3/O.A No.27/2021(SZ)/2021

Date: 31/01/2023

From

The Member Secretary

To

The Secretary,
Kochi Corporation.

Sub:- Full utilization of CSTP -reg.

Ref:- 1.Order dated 02/01/2023 in OA 27/2021

2.Minutes of the meeting held on 21/01/2023 in connection with
OA 27/2021

Sir,

Attention is invited to the references. As per the meeting held on 21/01/2023 it is understood that actions have been initiated for licensing unregistered tankers and for implementation of online tracking system. You are requested to report the status of licensing of unregistered tankers and implementation of online tracking system for wastewater tankers urgently.

Yours faithfully,

MEMBER SECRETARY

Copy to :1) The Chief Environmental Engineer
Regional Office, Ernakulam
2) The Environmental Engineer
DO-1, Ernakulam



☎: General: 0471- 2312910, 2318153, 2318154, 2318155 Chairman: 2318150 Member Secretary: 2318151
E-mail: ms.kspcb@gov.in FAX: 0471 - 2318134, 2318152 web: www.kspcbkerala.gov.in

KERALA STATE POLLUTION CONTROL BOARD

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Pattom P.O., Thiruvananthapuram – 695 004

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PCB/HO/EE3/OA No.27/2021(SZ)/2021

Date: 31/01/2023

From

URGENT

The Member Secretary

To

The Secretary

Ministry of Jalashakti

Department of Water Resources

River Development and Ganga Rejuvenation

Sub:- Environment Department –Proposals for pollution abatment of selected river stretches -reg.

Ref :-1) D O no. J-27011/1/2022-NRCD-II dated 01.06.2022 from

Ministry of Jalashakti

2) Letter no. A3/140/2022-ENVT from Environment Department
dated 28.06.2022

3) Letter no. KMRL/IURWTS/1/11-2023 dated 31/01/23

Sir,

Kind attention is invited to the letter under reference (1), wherein Govt. of Kerala was asked to submit appropriate proposals for pollution abatment of selected river stretches. Accordingly Environment department asked the Board to submit appropriate proposals for pollution abatment of selected river stretches as annexed, directly to Central Government under intimation. Periyar river comes under priority V polluted stretch. Kochi Metro Rail Limited prepared DPRs duly vetted by CUBE-IIT Chennai for STPs and sewer line at Muttar, Perandoor, Vennala, Elamkulam for an amount of Rs.324.28 Crore, Rs.232.68

Crore, RS 499.26 Crore , Rs.367.63 Crore respectively. The said DPRs are forwarded herewith for your kind consideration for getting funding under NRCD.

Yours faithfully,



MEMBER SECRETARY

Copy to : 1) The Additional Chief Secretary
Environment Department

(mb c/lc)

2) Environment Monitoring Cell

3) The General Manger
Kochi Metro Rail Limited

4) The Chief Environmental Engineer
Regional Office ,Ernakulam

5) The Environmental Engineer
DO-1,Ernakulam