

KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Pattom P.O., Thiruvananthapuram – 695 004

പട്ടം പി.ഒ., തിരുവനന്തപുരം - 695 004



KSPCB/314/2025-CEE

Date: 05.02.2026

From

The Member Secretary

To

The Secretary

Ministry of Jal Shakthi,

Department of Water Resources, River

Development & Ganga Rejuvenation,

Shram Shakti Bhawan, Rafi Marg,

New Delhi- 110001

Sub:-Forwarding Monthly Progress Report for the month of December 2025 -reg.

Ref:-.Order of the Hon'ble NGT in the matter of O.A.No.673/2018

Sir,

Kind attention is invited to the subject matter. The matter is reported for kind information. As per CPCB report on water quality 2022, 11 polluted river stretches were deleted and 8 new stretches were added and hence the number of polluted river stretches is currently 18. The report prepared in revised format with respect to the progress in implementation of action plan of polluted river stretches, for the month of December 2025 is submitted herewith. As per the CPCB report on "Polluted River Stretches for Restoration of Water Quality, 2025", a total of 32 polluted river stretches/locations have been identified in the State of Kerala. Further remedial actions are under progress.

Yours faithfully,

MEMBER SECRETARY

Encl: As above

National Mission for Clean Ganga
Monthly Progress Report for the month of December 2025 in the NGT
Matter OA No. 673 of 2018 (in compliance to NGT order dated
24.09.2020)

For the State of Kerala

Overall status of the State:

I. Total Population: Urban Population & Rural Population separately:

As per Census 2011, Kerala has a population of 3,37,77,386. Rural population in Kerala is 2,58,40,501 and urban population in the state is 79,36,885. Population projected for 2024 is 3,56,40,084. The water consumption and wastewater generated are calculated based on the population projected for 2024.

• **Estimated Sewage Generation(MLD):**

Based on population projected for 2024, the estimated sewage and sullage generation is as given below:

- Estimated Sewage and Sullage generation in Urban area - 1018 MLD

Sewage = 305.4 MLD

Sullage = 712.6 MLD

- Estimated Sewage and Sullage generation in Rural area - 2981 MLD

Sewage = 894.3 MLD

Sullage = 2086.7 MLD

Total Sewage and Sullage generation – 3999 MLD

• **Details of Sewage Treatment Plant:**

- Existing no. of common STPs/CSTPs: 27 (common STPs and other STPs) and 4 common FSTPs and **2198** number of individual STPs
- No. of functional common STPs in the state: 14
- No. of functional common septage treatment plants in the state: 4
- Total sewage treatment capacity in the state through existing common STPs *: =138.31 MLD (Urban area = **129.695** MLD rural=**8.615** MLD)
- Total septage treatment capacity in the state through existing common FSTPs: 0.22 MLD
- Sewage treatment capacity via individual STPs in establishments = **100.71 MLD**
- In Kerala, individual houses have septic tank/ soak pits existing for toilets attached to them.
- Gap in treatment of sewage in terms of sewage treatment plant = **74.775 MLD** (Urban)

General Action Completed

In Kerala, 48% is highland (>75 m altitude); 41.76% midland (7.5-75m) and 10.24% is low land (<7.5 m) (<https://kerenvis.nic.in>). Kerala has a rural-urban continuous settlement pattern. In Kerala, flats are less compared to individual households which are having septic tank /soak pit existing for toilets attached to them.

Kerala was declared the first 100% open defecation-free (ODF) state in India on November 1, 2016. Onsite sanitation is practiced in the majority of places, where septic tank, soak pit are provided. Septic tank, soak pit are already specified in CPHEEO manual and IS codes are available for their specification. In the thickly populated/ urbanized low land areas, action is taken to divert the sewage into common sewerage system/ retrofitting measures based on local condition.

Actions being taken in compliance with various Original Applications before the Hon'ble National Green Tribunal.

- NEERI, Nagpur furnished a proposal for the feasibility study on the development of process package of treatment of domestic sewage for meeting the environmental compliance at Edappally canal and Perandoor canal at Ernakulam and Pallikalar at Kollam district for an amount of Rs 45 lakhs and this proposal was approved by the Board and draft MOU has been signed. As per terms of payment in MoU, 1st installment of Rs 26,55,000/- including GST(Rupees Twenty Six Lakh Fifty Five Thousand Only) is released to the account of CSIR NEERI, Nagpur, Maharashtra. The scientists from NEERI conducted site inspection and monitored different canals/drains in Kochi and Kollam and submitted draft final report on 24.09.2025. Report is under modification.
- Action is also taken for the rejuvenation of Amayizhinajanthodu, Ulloorthodu, Pattomthodu in Karamana catchment. As per the meeting chaired by Chief Secretary on 05.09.2023. A sanitation survey on the drains reaching AkkulamVelilake and its watershed was done by Socio Economic Unit Foundation (SEUF). Along the buffer distance of 100 metre from each banks of Amayizhanchan thodu, Pattom thodu and Ulloor thodu, the assets mapped and the problem areas were identified and action plan was prepared. Based on major observations, instruction issued to TVPM corporation and KWA. A stake holder meeting was held with Trivandrum corporation, PCB, KWA, Irrigation Department and SEUF survey team
- In Kollam district, Manichithodu and Thoppilkadav are stretches where major pollution was reported. Sanitation survey was conducted and the problem areas were identified. Action plan based on sanitation survey findings were shared to stakeholder departments.

Condition Assessment and Management Plan for the Periyar River Basin

Stakeholder Advisory (SAC) committee of the project CAMP for six river basins was convened by MoJS on 31.05.2024 and Periyar was one among the six river basins. The objective of the studies and management plan shall be to restore and maintain wholesomeness of the river ecosystem, improvement of ecological health, enabling rivers to perform its functions and to make the rivers Samarth supported on 5 pillars. – Unpolluted River Flow (Nirmal Dhara), Continuous River

Flow (Aviral Dhara), River Conservation Synchronized Development, Connecting People and River Science & Management.

Earlier, in case of Ganga river basin, Ganga River Basin Management Plan (GRBMP) was prepared by the consortium of 7 IITs with IIT Kanpur as the lead partner. The centre for Ganga River Basin Management and studies (cGanga) has been established at IIT Kanpur to advise and providing continual scientific support to the Government for implementation and dynamic evolution of the Plan.

Similar methodology has been proposed for Periyar river basin by the consortium of IIT Palakkad and NIT Calicut with IIT Palakkad as lead institute.

Integrated Web Portal

A unified web portal for implementation and monitoring of various activities related to Board. The key objective of the web portal includes analysis of water quality data from the National Water Monitoring Program, State Water Monitoring Program, Spatial mapping of all monitoring points and display of designated best use water, quality criteria-wise classes, Air Quality Index calculation, generation of Air & Water quality directory, Status of different solid and liquid waste treatment facilities in the State, Data of Industrial and Non-Industrial activities including Category, type, scale etc.

Completed Projects

Sl. No.	STP location	STP Installed capacity	Utilization	Status
THIRUVANANTHAPURAM				
1	Common Sewage Treatment Plant, Muttathara, Trivandrum maintained by Kerala Water Authority (Co Processing facility for septage)	107 MLD (Activated Sludge Process)	80 MLD	- Operational (pH-7.0, TSS-40 mg/L, BOD- 9.0 mg/L, COD-40 mg/L, Oil and grease-BDL, Faecal Coliform- NIL as per analysis report dated 22.12.2025). - Some quantity of treated water is used for irrigation, construction etc. - On completion of ongoing works and on implementation of DPR under preparation, full utilization of 107 MLD can be achieved. - Two DPRs submitted to GoK for AS. Directions issued to KWA for full utilization of plant
PATHANAMTHITTA				
2	Sewage Treatment Plant at Sannidhanam (5MLD) Maintained by Travancore Devaswom Board	5 MLD (UASB and SBR)	3.5 MLD	Operational (pH – 7.9, BOD – 16 mg/l, Total Suspended Solids - 72 mg/l, TDS - 510 mg/l, oil & grease – 29.5 mg/l, Faecal Coliform - Absent , as per analysis report dated 04.12.2025 after disinfection).
3	Sewage Treatment Plant at Pamba (3.5 MLD) maintained by Travancore Devaswom Board	3.5 MLD (Coagulation & settling)	3.5 MLD	Operational (pH-6.8, BOD-11 mg/l, COD- 24 mg/L, Total Suspended Solids - 32 mg/l, Faecal Coliform - Absent , as per analysis report dated 04.12.2025 before chlorination).

				• Action is being taken for preventing its exceedance.
ALAPPUZHA				
4	DEWATS system, Chathanad (For 50 houses in slum area)	25 KLD (Anaerobic Baffle Reactor)	25 KLD	• Operational (pH – 7, BOD – 22.256 mg/l, SS – 11 mg/l, Oil and grease BDL as per the analysis report dated 08.08.2025)
KOTTAYAM				
5	STP for Houseboat (0.09 MLD)at Kumarakom maintained by DTPC, Kottayam	0.09MLD (Activated Sludge Process)	0.09 MLD	• Operational (pH- 7.5, BOD – 11.2 mg/l, SS - 14 mg/l, Oil & Grease-BDL as per the analysis report dated 26.11.2025). • The quality of effluent conforming to standards.
ERNAKULAM				
6	STP owned by Greater Cochin Development Authority, Marine drive, Kochi	0.9 MLD (Activated Sludge Process)	0.9 MLD Proposed to augment to 2 MLD	• Operational. Analysis report dated 23.12.2025 (pH- 7.05, TSS-63.6 mg/l, phosphates- 4.7 mg/l, ammoniacal nitrogen- 32.34 mg/l, BOD-36 mg/l, COD- 92 mg/l, oil & grease- BDL, Total Nitrogen – 38.193 mg/l , Nitrite as Nitrogen – 0.021 mg/l , Nitrates as Nitrogen – 0.540 mg/l , total Kjeldahl nitrogen- 37.632 mg/l), Faecal Coliform – 48000 cfu/100ml
7	STP at Elamkulam, Kochi (AMRUT)	5 MLD(MBBR) with Co treatment 24 KLD	4 MLD	• STP completed & operational. • Co-treatment unit: concreting of tank completed & plastering works is ongoing -expected to be completed by 30.10.2025 • Analysis report dated 03.12.2025 (pH- 7.41, TSS-16.6 mg/l, ammonia as nitrogen- 2.94 mg/l, Free ammonia - 0.053 mg/l,BOD-1.2 mg/l, COD- 24 mg/l, oil & grease- BDL, Nitrates as Nitrogen - 4.515 mg/l , Nitrite as Nitrogen - 0.295 mg/l , total Kjeldahl nitrogen- 5.88 mg/l, Total Nitrogen - 10.69 mg/l, Faecal coliform - 1240 cfu/100ml
8	STP owned by GCDA, International Stadium Kaloor	0.75MLD(Activated Sludge Process)	0.05 MLD	• Operational. • Analysis report dated 11.12.2024 (pH-7.51, TSS-21.5 mg/l, BOD-4.6 mg/l, oil & grease- 5 mg/l).
IDUKKI				
9	Sewage treatment Plant at Comfort station, Adimaly Grama Panchayat, Idukki	0.01 MLD		• STP was not working. • Show Cause Notice issued on 05.02.2024 • Inspection conducted on 15.07.2024 & direction will be issued
10	60 KLD STP at Taluk Hospital Adimaly, Adimaly Block Panchayat, Idukki	0.006 MLD		Operational MBBR Operational. (pH-7.45, BOD-27 mg/l, COD -56 mg/l, Suspended solids-24 mg/l, Oil and grease- BDL, Faecal coliform- Nil as per Analysis report dated 04.03.2025)

THRISSUR				
11	Sewage treatment Plant at Guruvayur, Thrissur District	3 MLD(Activated Sludge Process)	0.5MLD	• Operational. (pH-7.65, BOD-6.4 mg/l, COD -160 mg/l, Suspended solids- 1.76 mg/l, Oil and grease- 0.56 mg/l, Faecal coliform- NIL as per Analysis report dated 29.10.2025)
12	Revamping of 35 KLD STP at Kuriyanchira Slaughter House Corportation, Thrissur	0.035MLD (MBBR)	0.035 MLD	Operational (pH – 7, BOD – 165.6 mg/l, COD – 524 mg/l, SS – 0.63 mg/l, oil & grease – 15.2 mg/l as per the analysis report dated 02.09.2024) Action is being taken for preventing exceedance.
KANNUR				
13	Sewage treatment Plant at Taliparambu (0.5MLD) Taliparamba Municipality, Kannur	0.5MLD (Activated Sludge Process)	0.5MLD	• Operational. • pH -6.52, TSS - 33 mg/l, COD- 8 mg/l, BOD - 4 mg/l, Oil and Grease- 0.1 mg/l as per the analysis report dated 17.10.2025
14	STP at old age home Kannur	0.010	0.010	MBBR (Operational) • pH -7.38, TSS – 24 mg/l, BOD – 25 mg/l, COD – 40 mg/l; Oil and Grease- 0.8 mg/l, as per the analysis report dated 01.11.2025
15	STP at Padannappalam	1 MLD	0.3 MLD	Operational Rotating Media Bio Reactor • pH -7.48, TSS - 19 mg/l, BOD-16 mg/l, COD - 30.2 mg/l; Oil and Grease- 0.44 mg/l as per the analysis report dated 17.10.2025
Total Capacity			138.31 MLD	
FSTP				
ERNAKULAM				
1	Septage Treatment Plant at Brahmapuram, Kochi Corporation, Ernakulam	0.1MLD(MBBR)	0.1 MLD	• pH- 6.53 mg/L, BOD- 3 mg/L, COD- 24 mg/L, Oil and Grease-BDL, Total Suspended Solids – BDL, Phosphate – BDL, Nitrate- 1.44 mg/l, Sulphates – 11.89 mg/l, Sulphides – 2.67 mg/l, Ammoniacal Nitrogen – 1.06 mg/l, Phenolic Compounds - BDL, Faecal coliform –35 cfu/ 100 ml, Faecal Streptococci-38 cfu/ 100 ml as per analysis report dated 04.12.2025
2	Septage Treatment Plant at Wellington Island, Kochi Corporation	0.1MLD(MBBR)	0.1 MLD	• Not working properly. • Site visit done by KSPCB on 18.01.2024. • Consent refusal intention notice issued.
THRISSUR				
3	FSTP at Mattampuram	0.01MLD (Biological)	Started functioning	pH – 7.25, BOD – 7 mg/l, COD – 44 mg/l, SS – 0.09, Oil & Grease – 0.02 mg/l, Ammoniacal Nitrogen – Nil, Total Nitrogen – 35.37 mg/l, Total

				Phosphorus – 0.63 mg/l, Faecal Coliform – Nil as per analysis report dated 11.11.2024
WAYANAD				
4	FSTP at Kalpetta	0.01MLD(Biological)	0.01 MLD	- Operational - pH – 7.49, TSS –8.2 mg/l, BOD – 7.58 mg/l, Oil and Grease- 6.32 mg/l as per the analysis report dated 31.05.2025
Total Capacity			0.22 MLD	
ETPs/CETPs				
IDUKKI				
1	Construction of 6 KLD ETP for Kumali Slaughter House Kumali GP, Idukki	0.06 MLD		Slaughter house is not functioning.
MALAPPURAM				
2	ETP in Fish Market, Ponnundam GP , Malappuram	0.01MLD(Anaerobic)	Plant is working.	The unit has submitted ICE of the Board on 18.03.2023. Inspection was carried out on 12.05.2023. ETP is operational but sample could not be taken. STP file has been returned for clarification on 29.05.2023.
3	Effluent treatment Plant at Tirur (fish market)	0.045 MLD (Biological)		Operational Ph- 5.9, BOD – 4.4 mg/l, COD – 16 mg/l, TSS – 58 mg/l, Oil & Grease – BDL as per analysis report dated 15.05.2025. Action is being taken for preventing its exceedance.
Total Capacity			0.115 MLD	

Institutional STPs

Sl. No.	STP location	STP Installed capacity	Utilization	Status
THIRUVANANTHAPURAM				
1	STP at Medical College, Thiruvananthapuram- Phase I & II (PRS)	5MLD(MBBR)	3 MLD	- Operational (pH-3.4, TSS-9.0 mg/L,BOD- 0.6 mg/L, Bio – assay Test – 100% fish died within 1 hour, COD- 44 mg/L, oil and grease-0.7 mg/L, Total Coliform – NIL, FC – NIL as per analysis report dated 22.12.2025). - The matter is being followed up.
ALAPPUZHA				
2	STP at General Hospital	0.24 MLD	0.1 MLD	Electro coagulation. (Ph – 7.3, BOD – 2.8 mg/l, COD – 10 mg/l, SS – 10 mg/l, Total Phosphorous – 0.043 mg/l, Faecal Coliform – NIL, Total Nitrogen – 22.507 mg/l, Oil and grease – BDL as per the analysis report on 09.10.2025)
ERNAKULAM				

3	STP at Kalamassery, Market, Kalamassery Municipality (PRS)	10 KLD		Started operating
THRISSUR				
4	STP at General Hospital, Thrissur (AMRUT-1.0)	0.36 MLD	0.2 MLD	pH – 4.6, BOD – 2.4 mg/l, COD – 12 mg/l, SS – 6.1 mg/l, Total Nitrogen – 2.8 mg/l, Total Phosphorous – BDL, Oil and grease – 0.37 mg/l, Faecal Coliform – NIL as per the analysis report on 15.01.2026)
MALAPPURAM				
5	STP at Municipal Bus Stand, Tirur (PRS)	0.05MLD (Biological)	Working	Operational (Ph – 6.5, BOD – 19 mg/l, COD – 80 mg/l, TSS – 56 mg/l, Oil and grease – BDL as per the analysis report on 23.05.2025)
6	Sewage treatment Plant at Malappuram Municipal Bus stand	0.03MLD(MBBR)	0.03 MLD	Project proposal for maintenance work have been approved. ICE issued to the unit vide consent No.KSPCB/MA/ICE/10022893/2024 dated 24/01/2024 valid till 24/02/2024
KOZHIKODE				
7	STP at Kozhikode Medical College.	2 MLD Old plant.	Working	- Operational. - According to analysis report on 08.01.2026 the following values were observed. pH -7, TSS- 4.5 mg/l, Total Residual Chlorine – Nil, COD- 64 mg/l, Oil and Grease- BDL, BOD-1.73 mg/l, Ammoniacal – N 39.024 mg/l and Nitrate – 0.604 mg/l
8	STP at Kozhikode Medical College.	2 MLD With 100 KLD Co-treatment Facility	Commissioned on 05.10.2023	- Operational - According to analysis report on 08.01.2026 the following values were observed. pH -7.5, TSS-BDL mg/l, Total Residual Chlorine – Nil, COD- 72 mg/l, Oil and Grease- BDL, BOD-4.13 mg/l, Ammoniacal – N 184.321 mg/l and Nitrate – 1.737 mg/l
9	STP at Kozhikode Medical College.	1 MLD	0.1 MLD	Operational According to analysis report on 08.01.2026 the following values were observed. pH -7.5, TSS-BDL, Total Residual Chlorine – Nil, COD- 104 mg/l, Oil and Grease- BDL, BOD-12.13 mg/l, Ammoniacal – N 99.303 mg/l and Nitrate – 0.895 mg/l

10	STP at Kozhikode Medical College	500 KLD		Operational • According to analysis report on 08.01.2026 the following values were observed. pH -9.5, Total Residual Chlorine - NIL, TSS-BDL, COD- 16 mg/l, Oil and Grease- BDL , BOD-3.33 mg/l, Ammoniacal – N 1.5873 mg/l and Nitrate – N-1.042 mg/l
11	Common Sewage Treatment Plant at Narayana nagaram, near stadium, Vatakara, Opp. New bus stand	0.1 MLD		According to analysis report on 27.06.2025 the following values were observed. pH -9, COD- 48 mg/l, BOD-0.67 mg/l, Chloride - 30 mg/l , Suspended Solids – BDL.
WAYANAD				
12	Sewage Treatment Plant at Taluk Hospital, Sulthan Bathery	0.14 MLD(MBBR)	0.05 MLD	• Operational • pH -7.29, TSS – 19 mg/l, BOD – 5.4 mg/l, Bio assay – 100% survival, FC – Nil as per the analysis report dated 17.10.2025

Details of under construction of major ETPs / STPs in the State

No.	Location	Implementing Agency	Capacity of the plant in MLD	Physical Progress in %	Present Status	Timeline of Completion
THIRUVANANTHAPURAM						
1	FSTP at Varkala Municipality, Thiruvananthapuram (IMPACT KERALA Ltd)	IMPACT Kerala Ltd.	50 KLD FSTP	Work Awarded	• Work awarded after DBO tender. Design being vetted by Anna University. Work on going on site. • Contractor has to submit MS FRP design drawings. • Contractor submitted design drawings on 07.02.2025, placed before Technical Committee & the committee approved the same. • Foundation work completed. Receiving chamber wall concrete completed. • Office building superstructure works in progress. • Structural framework and chamber construction are ongoing	
2	ETP 10 KLD Capacity, Nedumangad Municipality, Thiruvananthapuram		0.01	80%	Works completed.	
KOLLAM						
3	STP at Kureepuzha,	Kerala Water	12	94%	STP: Finishing work of the	STP:

	Kollam (AMRUT-1.0)	Authority/ AMRUT			admin building finishing in progress. Sewer Network & Connections (AMRUT 2.0): <i>Vacuum Sewer Network:</i> The DPR agency engaged by the ULB is preparing the DPR. <i>Iron Bridge Sewer Network:</i> TS to be revised by KWA as per the DSR-2021 and the work is to be tendered.	31.01.2026 FSTP: 31.03.2026 Sewer Network: Vacuum Sewer Network – DPR is expected to be submitted by 31.01.2026. Iron Bridge Sewer Network expected to be tendered by 31.01.2026
4	STP at Chitumala Old Age Home. Chitumala BP, Kollam		0.015	98%	Original contractor of the work was terminated in risk and cost, LB entrusted the accredited agency IRTC to do the rest of the work. The agency prepared proposal. SM scrutinized and suggested to submit detailed estimate. It shall contain repairs and maintenance of already installed equipment and proposed new works. Comparison chart is being prepared by the agency. Joint inspection by the state technical officer and agency was arranged. The agency will submit a revised estimate along with new DPR. Original contract of the work was terminated in risk and cost, & the accredited agency IRTC has been tasked with completing the work. The agency has submitted proposal; TS is under processing for the additional works to make the plant run.	
5	190 KLD STP at Pathanapuram Market and Shopping Mall		0.190	38%	O&G trap and manhole construction completed. Currently the DPR is under revision based on DSR 2021. DPR under verification.	
6	STP at Mayyanad GP, Kollam	IMPACT KERALA Ltd	590KLD Co-treatment	Work Awarded	Agreement executed with the Contractor M/s Enrec Engineers on 29.02.2024. Contractor submitted vetted process design. Submitted to KWA and got approval.	

					Dhawalakuzhy – Raw sewage tank excavation work in progress. Thanni, Valiyavila & Dhawalakuzhy - Network line and manhole installation in progress. Thanni, Valiyavila & Dhawalakuzhy - Above ground 4 tanks wall concrete completed. Thanni - Office building concrete work completed. Valiyavila – Office building concrete work completed. Raw sewage tank concrete in progress. Thanni & Valiyavila - Network line and manhole installation in progress. O&M contract to be signed	
ALAPPUZHA						
7	FSTP at Cherthala Municipality , Alappuzha	IMPACT KERALA Ltd	250 KLD Septage TP	99%	Cherthala FSTP plant inaugurated on 28.03.2025. Trial run going on. Some pending works to complete	
IDUKKI						
8	FSTP at Munnar, Idukki		50 KLD	5%	5% work completed. Due to a court case, work stopped temporarily District Collector Idukki has submitted report to Government for re-assigning the land to Munnar GP. Work stopped due to court case	Stalled
KOCHI						
9	STP at Ambedkar Colony, Div-16, Edakochi South (AMRUT-1.0)	Kochi Corporation/ AMRUT	1.1	75%	Work in progress.	31.03.2026
10	STP at RAY Flats, Fort Kochi, Kochi Corporation (AMRUT-2.0)	Kochi Corporation	0.105	60%	Work in progress.	31.03.2026
THRISSUR						
11	Viyoore central jail STP (Thrissur)		0.05	65%	Civil works completed. Mechanical works and sewernetwork to be started. Supply of materials completed	
12	Kunnumkulam, Thrissur		0.01		Ready for commissioning	Ready for commencing
13	STP at CHC Cherpu BP, Thrissur		0.01	90%	Plant construction completed. Final bill is to be submitted by LB. The revised estimate has been prepared, received and is currently under verification by Suchitwa Mission.	
14	STP at Community Health Centre Pazhayannoor Block Panchayath ,Thirssur		45 KLD	1%	Work Started. Work in progress.	31.12.2025

PALAKKAD						
15	STP at Ottappalam Municipality, Palakkad District	IMPACT KERALA Ltd	1.50ML D Co-treatment	Work Awarded	STP work in progress. Pile completed. The concreting of the grade beam, base slab and RCC wall of the Intermediate Storage Tank, Sludge Holding Tank and Treated Water Tank completed. Pile cap & grade beam reinforcement for SBR-1 tank completed. Steel work of grade beam and pile cap concrete completed for SBR 1 & 2 tanks. Intermediate Storage tank -1, Structure completed. Concreting up to base slab completed. Reinforcement of RCC wall done. Water leakage testing in progress. Network design finalised by considering the taluk hospital area instead of the railway land. Around 50% plant work completed.	
16	FSTP at Yakkara, Palakkad Municipality (AMRUT-1.0)	Palakkad Municipality	0.1	Physically completed	Electrical connection work is to be completed. Additional works like approach road, installation of solar panels etc. are in progress. By law regarding septage collection is to be placed in the new Council for approval.	Expected to be made operational by 28.02.2026
MALAPPURAM						
17	STP at Pambad Housing Colony Malappuram Municipality, Malappuram		0.110	99%	Mechanical work pending due to electrical connection problem. ULB requested to KSEB.	
18	STP at District Hospital, Tirur, Malappuram		0.5	10%	Work Ongoing- Structure work completed	
19	Eco Friendly waste water Treatment plant 10 KLD in vettam Community Health centre , Tirur BP		0.01	95%	Work started. Agency needs some clarification from SM. Work Ongoing	
KOZHIKODE						
20	Wastewater treatment plant at Kuttiyadi government taluk hospital, Kozhikode		0.080	98%	Physical work completed. Electrical work pending	
KANNUR						
21	Sewage Treatment Plant 20 KLD at Shopping Complex cum multiplex Theatre, Kallumutti, Irutti Payam, Grama Panchayath1, Kannur		0.02	2%	Work order issued on 26-06-2025. Agreement executed on 16.07.2025. PCB sanction received. Intimated contractor to submit design for the work as per PCB approved	31.03.2026

					parameters.	
22	STP for Convention Centre, Pinarayi Grama Panchayath, Kannur		0.02	95%	DPR under correction Stage	
23	FSTP at Chelora, Kannur Corporation (AMRUT-1.0)	Kannur Corporation/ AMRUT	100 KLD	99%	Electrical connection work to be completed and trial run to be done.	31.01.2026
WAYANAD						
24	Construction of 45 KLD waste water treatment plant at Kalpetta Government Ayurveda Hospital DP , Wayanad		0.045	65%	District panchayat Wayanad terminated existing agency M/S Ram biological confirmed implementation of projects. Remaining works to be tendered after the spillover.	

Details of proposed STP/STPs with co-treatment facility in the State

No.	Location	Implementing Agency	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded)	Status of Project (in Detail)	Likely Date of Completion of DPR Preparation/ Tendering
THIRUVANANTHAPURAM						
1	STP at Rajaji Nagar, Thiruvananthapuram Corporation	Thiruvananthapuram Corporation	0.5	Work Awarded	STP: The ULB held discussions with the KSPCB and Eco Paradigm, but a consensus has not been arrived at regarding the quality of effluent from the proposed STP. The contractor has requested for price escalation (29%). The ULB is likely to reject the same and retender the work. Way forward is to be decided by the ULB regarding the STP construction. Temporary Shed: The agreement was executed on 09/10/25. Work has not been started since the STP construction has not been confirmed. Sewer Network: TS issuance is delayed as the STP construction has not been confirmed.	STP: Expected to be tendered again by 31.01.2026 Sewage Network: Expected to be tendered by 31.01.2026
KOLLAM						
2	CHC Sooranadu,	Suchitwa	0.028	At	LSG planning to tender for DPR	

	Sasthancotta Block Panchayath, Kollam	mission		Tendering Stage	preparation. Tendering process for DPR preparation is in progress. Revision needed in the next DPC. DPC approved. Tendering process is progressing. Project spillover for further process.	
3	Waste water Treatment (90 KLD) System for coastal housing and Tsunmai resettlement facility at karikuzhi, mayyanadGrama Panchayath , Kollam		0.09	At DPR Stage	Physical progress – 57% Thanni, Valiyavila & Dhawalakuzhy - Above ground tanks wall concrete completed and network line and manhole installation in progress. Thanni - Office building concrete work completed, plastering work completed. Raw sewage tank concrete work completed. Valiyavila – Office building concrete work & plastering completed. Raw sewage tank concrete work in progress. Dhawalakuzhy – Raw sewage tank excavation work in progress. Transferred to KIIFB	
PATHANAMTHITTA						
4	Taluk Hospital Thiruvalla , Thiruvalla Municipality, Pathanamthitta	Suchitwa mission	0.225	Tendering stage	TS issued. Tendering Documents submitted to State Suchitwa Mission for verification. Tender processing going on.	31.12.2026
ALAPPUZHA						
5	STP with Septage Cotreatment Capability at Alissery, Alappuzha Municipality (AMRUT-2.0)	Kerala Water Authority	5	AS Issued	AS received for this work under AMRUT 2.0 for an amount of 68 Crores on 22/3/25. TS estimate submitted by SE on 12-9-2025 and is under scrutiny. Tendered: The TS was issued on 04.11.2025, and the tender was floated by KWA on 05.11.2025 with the opening on 10.12.2025. The tender opening date was extended till 19/12/25 but only 1 bid was received. Hence again extended till 31/12/25, 3 bids were received.	Expected to be awarded by 28.02.2026
6	STP at Bhajanamadom Colony, Alappuzha Municipality (AMRUT-2.0)	Alappuzha Municipality	0.012	DPR Stage	In the meeting held on 16/10/25, the Bhajanamadom Church authorities didn't agree to relinquish the land for the STP. Way forward is to be decided by the ULB. AS to be issued: The Division Councilor has given a letter to the ULB's Chairperson for cancelling the work. The decision on cancellation of the work is to be taken by the new Council.	Expected to be cancelled by 31.01.2026
KOTTAYAM						
7	Taluk Hospital Pampady, Pampady Block panchayat, Kottayam		0.085	Tendering stage	Tendering will be done after the approval of spill over projects by DPC. PCB approval pending.	31.07.2026
IDUKKI						
8	STP for Idukki district	Suchitwa	0.205	Tendere	Project modified as STP for	30.06.2026

	hospital and district Ayurveda hospital, Thodupuzha municipality, Idukki	mission		d	Thodupuzha district hospital. SM verified the DPR DPR under verification by State Mission Correction not yet submitted by agency.	
9	STP at private bus station, Kothayikkunnu, Thodupuzha municipality Idukki	Suchitwa mission	0.03	Tendering stage.	TS issued for electrical works. Technical Sanction of mechanical items needs to be issued. Will retender soon.	
ERNAKULAM						
10	4 STPs are coming up under the KMRL's Integrated Water transport System project at	KWA	105	DPR Stage	Approved DPR of 55MLD STP at Elamkulam and 50MLD STP at Muttar submitted to GoK for getting appl from NRCD. DPR of Sewer Network of Muttar and Elamkulam STPs submitted to KIIFB for approval. AS not yet received.	31.09.2026
	Elamkulam (17.5 MLD) revised to 55 MLD					
	Vennala (24MLD) clubbed with Elamkulam					
	Muttar (16.5 MLD) revised to 50MLD					
	Perandur (19 MLD) clubbed with Muttar					
11	STP with Septage Cotreatment Capability at Elamkulam, Kochi Corporation	Kerala Water Authority	5	To be Tendere d	STP: As per the final order received from the Court on 23/09/25, the order dated 01/07/25 has to be complied. KWA asked the L1 bidder to execute the agreement by 01/11/25, but so far, no action has been taken by them. There is no response from the bidder regarding agreement execution. Hence, the work is likely to be tendered again by KWA after revising the TS as per DSR-2021 Sewer Network: The TS was issued by the PPD & WASCON, KWA on 29/09/25. The tender opening date of the 27.74 km package was extended till 18/12/25 but only 1 bid was received. Hence again extended till 31/12/25, 4 bids were received.	Sewer Network: One package is expected to be awarded by 28.02.2026 and the other package is expected to be tendered by 31.01.2026
12	CHC Kadayiruppu, Vadavucode Block Panchayat, Ernakulam	Suchitwa mission	0.025	DPR Stage	LB preparing estimate in Price software. DPR under correction by the agency.	31.08.2026
13	Chittur Thathamangalam FSTP	IMPACT Kerala Ltd.			- Agreement executed with M/s Urban Grey Water solutions for DPR preparation 19-Nov-2024. - Consultant submitted modified DPR on 02.08.2024. Submitted to SM on 08.08.2025 for funding.	31.12.2026
THRISSUR						
14	5 MLD Decentralized	Thrissur	5	DPR	Due to public protest and due to	Expected to

	Sewerage Scheme (STP at Kokkala), Thrissur Corporation (AMRUT-2.0)	Corporation		Stage To be tendered:	the difficulty in obtaining clearance from KSPCB, the ULB decided to combine the Kottappuram and Kokkala sewerage projects by constructing a common STP at Kokkala. As directed by the SLTC held on 08.10.2025, a basic report on the combined project, 5 MLD Decentralized Sewerage Scheme', was submitted by the ULB. AS was issued via Govt. Order (No.2787) dated 10.11.2025 for the combined project. The ULB has decided to execute the project in the DBOT mode. The draft DBOT tender/ EoI document is to be submitted by the ULB to the CE, LSGD for vetting.	be tendered by 28.02.2026
15	STP at Athani, Wadakkanchery Municipality, Thrissur (PRS)		350 KLD STP		Site identified. DPR approved by RKI	31.12.2026
16	STP at Wadakkanchery Municipality, Thrissur (PRS)	IMPACT KERALA Ltd		DPR Stage	Municipality planning for decentralized plants at different locations which needs to be finalized in consultation with PCB. Municipality to submit DPR accordingly. Not yet submitted.	
17	Pazhayanoor STP (Thrissur)	KWA	0.45 KLD	Work awarded	Design vetted by Sewerage Circle, Kochi. Work ongoing. Work Handover to KWA	31.12.2026
18	35 KLD STP at Ramavarma District ayurveda hospital, Thrissur	Suchitwa mission	0.035	DPR Stage	Return for modification	
19	STP at Ottuppara Market, Wadakkanchery Municipality, Thrissur (IMPACT KERALA Ltd) (PRS)	IMPACT KERALA Ltd	18KLD STP		DPR submitted to KIIFB as a part of the project "Modernisation of Ottuppara Market in Wadakkanchery Municipality. Under design review by KIIFB	30.06.2026
20	STP at Athani market, Wadakkanchery Municipality, Thrissur (IMPACT KERALA Ltd) (PRS)	IMPACT KERALA Ltd	13.9 KLD STP		DPR submitted to KIIFB as a part of the project "Modernisation of Ottuppara Market in Wadakkanchery Municipality". Under design review by KIIFB	30.06.2026
21	Waste water treatment plant at K R Narayanan memorial hall, Adat GP		0.0065	DPR stage	TS issued. As AS amount is less, revised AS is needed.	31.12.2025
22	Augmentation of existing 3 MLD STP at Chakkamkandam to 5 MLD with Septage Cotreatment Capability, Guruvayur Municipality (AMRUT-2.0)	Kerala Water Authority	2	DPR stage AS to be issued:	There is delay in the finalization of the DPR by KWA as the ULB wants to remove the sewer network and cotreatment components from the DPR. In the meeting held by the Principal Secretary, LSGD, on 09/10/25, the ULB's Secretary was directed to take necessary action to take up the works as per the DPR initially submitted by the KWA. Action in this regard is to be taken.	DPR expected to be finalized by 31.01.2026

					Even though a meeting was conducted with Hon'ble MLA, no sanction was obtained for road cutting to lay sewer network. The KWA is revising the DPR by including sewer laying using vacuum technology as per the discussion held with the ULB officials and the same will be placed in the Council for approval.	
23	General Hospital, Irinjalakuda Municipality, Thrissur (PRS)		0.150	TS received	TS received, work to be started soon.	31.12.2026
PALAKKAD						
24	STP for Municipal Buildings, Palakkad Municipality (AMRUT-2.0)	Palakkad Municipality	0.030	DPR Stage	The Special Council held on 02/08/25 approved the issuance of LoA to L2 and the LoA was issued on 21/08/25. The DPR is being prepared by the DBOT contractor.	DPR is expected to be submitted by 31.01.2026
25	CHC Alathur, Alathur Block Panchayat, Palakkad	Suchitwa mission	0.090	DPR Stage	Instructed LB to call Tender for DPR preparation	
MALAPPURAM						
26	Sewage Treatment Plant and Sewerage System for Ponnani Municipality (Harbour Zone)	Kerala Water Authority	7.12		DPR in PRICE 3 Submitted to Govt and RKI for AS on 17.10.2022. Resolution not obtained.	
27	Sewerage system for Ponnani municipality(Kottathara Zone) with STP of capacity 4.2 MLD	Kerala Water Authority	4.2		DPR Submitted to Government of Kerala and RKI for AS on 20.10.2022. LGSD has put up proposal for a convention centre at the land earmarked for STP. Hence, resolution not obtained.	
28	Eco-Friendly wastewater Treatment Plant (140 KLD) for Women and Children Hospital Ponnani Municipality, Malappuram	Suchitwa mission	0.14	Tendering stage	Total fund deposited to KWA by the LB. Work yet to start. Land finalized.NIT under preparation. PCB and CRZ clearance required and it is initiated by Ponnani Municipality. Tender publishing next week with due date 10.09.25	
KOZHIKODE						
29	STP with Septage Cotreatment Capability at Sarovaram, Kozhikode Corporation	Kerala Water Authority	27	Tendered	The ULB's proposal to execute the project on their own instead of KWA was placed in the SLTC/SHPSC.The SLTC held on 08/10/25 and the SHPSC held on 27/10/25 decided that the proposal can't be considered as there is a live tender and there is a court case related to the tender. A confirmation is required from the ULB regarding the management of the additional fund required due to tender excess for execution of the agreement between KWA and the bidder (no stay from the court regarding agreement execution). This matter is to be placed in the new Council for taking a decision.	Expected to be awarded by 31.01.2026
30	Sewerage System for	Kozhikode	15	DPR	STP: The AS was issued via	STP:

	Zone-A (STP at West Hill Industrial Estate), Kozhikode Corporation (AMRUT-2.0, alternative project for Avikkalathodu & Kothi sewerage projects)	Corporation		Stage To be started:	Govt. Order (No.2787) dated 10.11.2025. Technical approval and KCZMA's consent are to be obtained for starting the work. The project details are to be submitted by the ULB to the CE, LSGD for placement in the Technical Committee for technical approval. Consent to Establish dated 28.11.2025 has been issued by the KSPCB and the application for KCZMA's consent is to be submitted by the ULB. ULB has submitted the application to KCZMA on 16/12/25 for the CRZ clearance. The Kerala SIDCO Ltd. has objected the construction of the STP in the West Hill Industrial Estate. The work can be started after obtaining the CRZ clearance and after the resolution of the issue with SIDCO. Sewer Network: Agreement with Nasit Infrastructure Pvt. Ltd is to be renewed by the ULB after the MCC expires. The contractor has completed the survey works and the revised design is expected to be submitted by Dec 2025. The revised design is to be submitted by the contractor.	Expected to be started by 28.02.2026 Sewer Network: Expected to be started by 28.02.2026
31	Construction of 7ML D capacity Sewage Treatment Plant and Laying Sewerage Network to Vatakara Municipality, Kozhikode	Kerala Water Authority	7ML D	DPR stage	DPR Submitted to Govt and RKI for AS on 14/02/2023	30.04.2026
32	Kozhikkode corporation Zone F	Kerala Water Authority	4 MLD	DPR stage	Submitted to Govt and RKI for AS on 29.09.2022	30.06.2026
33	STP at Vadakara Municipality, Kozhikkode	IMPACT KERALA Ltd	0.5 MLD Sewage TP 20KLD FSTP 20KLD	DPR stage	Narayana nagaram – Land was 'Nanja'. Permission received vide G.O(MS)No.88/2024/AGRI dated 13.08.2024 received from Agriculture (NCA) Department regarding land conversion. Under KIIFB appraisal. Under DPR preparation.	Land Issue. Land Conversion process ongoing
34	30 KLD Sewage Treatment Plant at EMS Memorial Municipal Town Hall, Koyilandy Municipality, Kozhikkode	Kerala Water Authority	0.03	Tendering Stage	TS issued. Tender notice published with due date 08.09.2025. PCB clearance required and is initiated by Municipality. All fund transferred to KWA. KWA site visited.	
KANNUR						
35	STP with Septage Cotreatment Capability at Maithanappally, Kannur Corporation (AMRUT-2.0)	Kerala Water Authority	5	AS Issued To be retendered:	The request submitted by the ULB to execute the project on their own instead of KWA was placed in the SLTC/SHPS. As directed by the SLTC held on 08/10/25, the CE, LSGD submitted a report regarding the tender process followed by the	Expected to be tendered again by 28.02.2026

					ULB. The same was placed in the SHPSC held on 27/10/25 and the committee decided that the ULB shall execute the project through KWA since the tender process followed by the ULB for executing the project in the DBOT mode is flawed and hence the tender shall be cancelled. The decision on handing over the work back to KWA and on retendering are to be taken by the new Council.	
36	STP at Palayad, Taliparamba municipality, Kannur	Suchitwa mission	1	DPR Stage	Approval for land purchase from weaver's society is under process. Decision for the land purchase is pending. Land transfer consent from Industries department is not received.	31.12.2026
37	STP at hospital, Pazhayangadi, Kannur	Kerala Water Authority	0.120		At tendering stage. Project vetting completed. Agency submitted a rough cost estimate for electrical components TS issued. Requested for Urban Agglomeration fund for the project, It is not confirmed yet.	31.12.2026
38	STP at old age home, Kannur		0.010	Tendering Stage	. TS issued. Work completed.	31.06.2026
39	Thalassery, Kannur		22	DPR Stage	DPR Submitted to Govt and RKI for AS on 28/11/2022	30.10.2026
40	Kannur corporation Zone 1		13	DPR Stage	DPR Submitted to Govt and RKI for AS on 25/11/2022	30.10.2026
41	Payyannur, Kannur		13 MLD	DPR Stage	MoHUA's approval was received on 01.10.2024. The DPR of the project is expected to be submitted by 30.11.2024 for placing in the SLTC / SHPSC for approval of AS. DPR Submitted to Govt and RKI for AS on 25/11/2022	30.10.2026
42	DPR for perumba fish market Payyanur Municipality, Kannur	Kerala Water Authority	0.01	Work tendered	Estimate under preparation. Rs.66.5 lakhs deposited to KWA. Municipality to deposit the balance amount of Rs24 lakhs. KWA is working on DPR. Fund transferred by Municipality to KWA. Tender was opened. Five bids received. PQ under evaluation	
43	150 KLD Sewage Treatment Plant - Mattannur Municipality		0.2		TS issued 06-11-2025	
WAYANAD						
44	65 KLD Sewage Treatment Plant at Taluk Head Quarters Hospital Vythiri, Kalpetta Block Panchayat, Wayanad	Suchitwa mission	0.065	At DPR Stage	M/s Ram Biologicals attended Suchitwa Mission to discuss the corrections in DPR. DPR under revision by the agency. DPR under scrutiny, needs to be revised with higher capacity.	31.12.2026
KASARGOD						
45	Kasargod Zone 1		4MLD	DPR Stage	DPR was prepared and submitted. No resolution obtained	31.12.2026
46	Kasargod Zone		4 MLD	DPR	DPR was prepared and submitted.	31.12.2026

	2			Stage	No resolution obtained	
47	Taluk Hospital , Neeleswaram Municipality Kasaragod	Suchitwa mission	0.040	Tenderin g Stage	The tender-qualified agency is unwilling to accept the work. Hence action for council approval is being taken for arranging the work through accredited agency. Requested for advance payment. Waiting for the fund.	31.12.2026
48	135 KLD Capacity decentralized sullage Treatment plant at Uppala Town Mangalpadi, Kasaragod	Suchitwa mission	0.135	DPR Stage	- DPR have to be modified to include sewer networks - The sewer network survey has been completed and DPR has been prepared. DPR revision under process. Process flow approved. Revised DPC form received. As the rate got changed from DSR 2018 to DSR 2021, revised estimate to be received from LB.	31.12.2026
49	CHC, Mangalpady, Manjeshwar Block Panchayath, Kasragod	Suchitwa mission	0.014	DPR tendering Stage	Project revised as Mangalpady taluk hospital. DPR preparation by the agency. DPR preparation delayed due to fund ambiguity for STP at Gram Panchayats DPC Approved project.	31.07.2026

Details of proposed ETPs in the State

No .	Location	Impleme nting Agency	Capacity of the ETP propose d in MLD	Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded)	Status of Project (in Detail)	Likely Date of Completion of DPR Preparation/ Tendering
THIRUVANANTHAPURAM						
1	ETP at KSRTC Depot, Thampanoor, Thiruvananthapuram (AMRUT-2.0)	KSRTC	0.02	AS issued TS to be issued:	The KSPCB informed the KSRTC that ETP is necessary as the Bus Depot is an orange category industry. An external agency to be engaged by the KSRTC for the preparation of the DPR.	DPR preparation expected to be completed by 31.03.2026
KOTTAYAM						
2	ETP at Kodimatha, Kottayam Municipality		0.030	At DPR Stage	- Process flow approved. - DPR to be modified by the agency. Technical Sanction issued on 07.02.2025. Manual TS obtained. Slaughter house not operational, ETP construction works resume after the slaughter house starts functioning	
ERNAKULAM						

3	ETP for slaughter house, Marakkadavu, Ernakulam		0.030	DPR Stage	DPR under correction by the agency. Consent from the KSPCB is not yet to be received due to the less availability of land.	31.08.2026
THRISSUR						
4	ETP of 2 KLD at Konnamkulam Milk Production Cooperative Society		0.002	DPR stage	Under technical scrutiny	
MALAPPURAM						
5	ETP at Tirur Municipality	Suchitwa Mission	0.060	DPR Stage	LB to submit the revised DPR with revised DPC form	29.07.2025
6	ETP at Tirur Municipality Slaughter house	Suchitwa Mission	0.030	Tendering Stage	Paused due to public protest, Slaughter house not wroking	31.08.2026
KOZHIKKODE						
7	ETP at Govt Ayurvedic Hospital, Talayad, Panangad Grama Panchayath, Kozhikode	Suchitwa Mission	0.03	TS issued	TS issued.	31.12.2025

Details of proposed FSTPs in the State

No.	Location	Implementing Agency	Capacity of the FSTP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded)	Status of Project (in Detail)	Likely Date of Completion of DPR Preparation/ Tendering
KOLLAM						
1	Kureepuzha 50 KLD FSTP (Proposed)	KWA	0.05	To be retendered	The SLTC held on 08.10.2025 and the SHPSC held on 27.10.2025 decided to implement the FSTP under AMRUT-2.0 (transfer from AMRUT-1.0). FSTP to be retendered by KWA. FSTP is to be retendered by KWA after revising the TS as per the DSR 2021.	Expected to be tendered by 31.12.2026
KOTTAYAM						
2	FSTP at Vellor GP			DPR stage	Land allotted from industries department, suitable land identified. Procedure for land acquisition and lease is being processed	31.12.2026
3	FSTP at Manganam		0.05	DPR stage	A new land was identified as the earlier land was not available , A govt meeting to be held for the availabilty of land.	31.12.2025
ERNAKULAM						
4	FSTP at Brahmapuram, Kochi Corporation (AMRUT-2.0)	Kochi Corporation	1	AS Issued To be Started	The agreement was executed on 29/10/25 and the site is to be handed over to the contractor. The work is expected to be started after the election. The biomining rejection waste to be removed from the site for completing	Expected to be started by 31.01.2026

					the survey for the site hand over.	
5	Muvattupuzha Municipality's FSTP Project	IMPACT Kerala Ltd.	0.05		- DPR Submitted to RKI for AS on 13.11.2024 in advance. - Vide Lr.No.PP1/100/2024-LSGD dated 27.01.2025 from LSG(PP) Dept. informed that RKI has expressed its inability to take up the project. - Land conversion required. Informed municipality to forward Council resolution to proceed with KIIFB funding. Chairman informed that LB may drop the project as the proposed plant is in wetland.	30.03.2026
6	North Paravur FSTP	IMPACT Kerala Ltd.			Bio mining completed, Soil test conducting by the agency	30.05.2026
THRISSUR						
7	FSTP at Ramavarpuram, Thrissur Corporation	Thrissur Corporation	0.1	Work Awarded To be retendered	The SLTC held on 08/10/25 and the SHPSC held on 27/10/25 decided to implement the FSTP under AMRUT-2.0 (transfer from AMRUT-1.0). To be retendered: The land for the FSTP is to be confirmed by the ULB. The matter is to be placed in the new Council for taking a decision.	Expected to be tendered by 28.02.2026
PALAKKAD						
8	FSTP at Shornur	IMPACT Kerala Ltd.			Cluster selection ongoing, by considering the nearby local bodies.	
MALAPPURAM						
9	FSTP at Perinthalmanna	Aquatechnics Water Treatment Technologies Pvt. Ltd. Ernakulam			Land demarcating is being done by taluk surveyor	
10	FSTP at Valancheri	IRTC-PIUMUNDUR			Site Clearance done. Applied for KSEB Electricity connection.	
KANNUR						
11	FSTP at Valliyayi, Mokeri GP	Suchitwa Mission			TS issued on 17-10-2025	
KASARGODE						
12	FSTP at Mangalpady, 50 KLD	Suchitwa mission	0.05		TS issued	
13	FSTP at Manjeswaram, Manjeswaram GP	Suchitwa mission			TS issued. Work to be awarded	

Projects by Indian Railway

Sl No.	Location	Implementing Agency	Status of Project
1	STP at Ernakulam Junction railway station	Indian Railway	Ernakulam South Railway Station had submitted application for CTE for installation of STPs of 960 KLD and 240 KLD. No work was noted to be done regarding the installation of the STPs. It was informed by the officials of Railway that the consultancy to which the project of STP installation was assigned had opted out from the contract and the whole redevelopment project including the installation of STP at south railway station has been stopped currently. The railway officials informed that it might take 3 months more time to re tender. The application for CTE submitted was scrutinized and was returned on 20.01.2025 for submitting revised site plan. The application has not been resubmitted till date. Currently no progress is noted regarding the installation of STP and re submission of the application for CTE. Presently, the sewage is disposed through the existing septic tank system.
2	STP at Aluva station	Indian Railway	Inspection conducted on 23.06.2025. It is noted that the railway station has not taken any action for the installation of permanent and temporary STP. Only flooring was constructed at the STP location. The station is currently operating with the existing septic tank-soak pit system itself. MRF of the station is functional and they informed that the waste has been disposed to M/s. Earth Clean. The railway station has not renewed the Consent to Operate and is currently operating without valid Consent to Operate.
3	STP at Ernakulam North	Indian Railway	Ernakulam Town Railway Station had obtained Consent to Establish on 06.02.2025 for installation of Sewage Treatment Plant of 350 KLD Capacity. During the inspection no progress was seen regarding the installation of the STP. During the discussion with the Railway officials it was informed that they are awaiting technical sanction for the structural drawing of the civil tank and construction of STP is expected to start within 2 months. Currently the sewage is disposed through the temporary STP installed at the railway station.
4	Diesel Loco Shed, Southern Railway, Ernakulam	Indian Railway	Removal of oily sludge near the diesel loco shed and remediation of the area is in progress. The proposed cost of the work is Rs.22 lakhs. The Railway started the work at February 2024. Inspection was conducted on 20.02.2024 and the remediation work was progressing at the time inspection. Nearly 2000 sq ft area was demarcated for remediation. The land is a marshy land. The top soil containing oil was removed and spread out for drying. The water containing oil content from the remediation area was pumped in to a pit nearby and left open for drying. Inspections were conducted in every week since the commencement of remediation. Inspection was conducted by Board officials on 09.04.2024. Remediation work and filling of the land with red earth was seen completed. The excavated oil sludge will be disposed to KEIL. Even though there is large extent of affected water logged area, the railway have now completed remediation 2000 sq ft land area.

Proposed Sewerage System

1	Sewerage system for Thiruvananthapuram Corporation- Cluster 1 Attukal, Ambalathara, Kaladi, Kalipankulam & Kamaleswaram		7.0(for utilizing existing 107 MLD)		DPR in PRICE 3 Submitted to Govt and RKI for AS on 15.10.2022		
2	Preparation of DPR for proposed		5				

	sewerage system to the Madhippuram colony and surrounding areas near Vizhinjam Harbour, TVM						
3	Detailed Engineering Report for Sewerage Scheme in Neyyattinkara Zone I, TVM		2.5 MLD				
4	Detailed Engineering Report for the Sewerage scheme in Alappuzha Municipality with ST P – Phase 1		5 MLD		At DPR stage		
5	Detailed Engineering Report for the Sewerage scheme in Haripad Municipality - Sewage Treatment Plant of Capacity 2.6 MLD– Phase 1 and Sewerage Network of Length 58km – Phase 2, Alapuzha		2.6 MLD				
6	Comprehensive sewerage scheme- Government medical college, Kottayam		5 MLD		At DPR stage		
7	Sewerage System for Kattappana Municipality		1.76		DPR Submitted to Government of Kerala and RKI for AS on 19/09/2022		
8	Detailed Engineering Report for Sewerage Scheme in Kalamassery Municipality-Phase-1, Kochi		2.6 MLD		At DPR stage		
9	Sewerage System for Aluva –Zone 1		1.72		DPR Submitted to Government of Kerala and RKI for AS on		

					19.09.2022		
10	Sewerage system for Pattambi municipality		5.4		DPR Submitted to Government of Kerala and RKI for AS on 06.08.2022		
11	Decentralized Sewerage Scheme (STP at Kokkala), Thrissur Corporation (AMRUT-2.0)		2.5	AS to be Issued	The ULB was directed to submit the technical details of the STP to the District Collector for furnishing a report to the Govt. for taking an appropriate decision on allowing the ULB to construct the STP at the proposed location. The decision on according AS for the project will be taken by the SLTC/SHP SC based on the decision taken by the Govt. The ULB submitted the technical details of the proposed STP to the District Collector on 22/02/25.	The SHPSC held on 07 & 20.02.2025 directed the ULB to submit the technical details of the STP to the District Collector for furnishing a report to the Govt. for taking an appropriate decision on allowing the ULB to construct the STP at the proposed location. The decision on according AS for the project will be taken by the SLTC/SHP SC based on the decision taken by the Govt. The ULB has submitted the technical details of the proposed STP to the District Collector on 22.02.2025. Report in this regard to be give. As directed by the District Collector, a joint inspection was held on 10/03/25 involving officials of KLDC, Irrigation Dept., Agriculture Dept., & ULB, and a joint report was submitted to the District Collector on 17/03/25. Report in this regard to be given to the Govt. by the District Collector.	31.12.2026

12	Sewerage System for Zone-A, Kozhikode Corporation (AMRUT 2.0)		13	AS to be issued:	Due to public protest and the ongoing court cases (there is a stay by the Munsiff Court regarding the Avikkalthodu STP work) the ULB has proposed to combined the Kothi & Avikkalthodu sewerage projects proposed a 13 MLD STP at a new location (West Hill Industrial Estate). The 12 th SLTC held on 11/07/24 recommended the proposal to the SHPSC. The Tranche-3 projects were finalized in the SHPSC held on 02.08.2024. The Tranche-3 proposals inclusive of this proposal were submitted to MoHUA on 24.08.2024 for	Even though the SIDCO objected the construction of the STP in the West Hill Industrial Estate, the ULB is going ahead with the project and has issued LoA on 18.02.2025 to KCCL & AIPPL-JV) The agreement was executed on 21/05/25. The DPR is being vetted by the Anna University. The DPR submitted by the contractor is to be placed in the next SLTC/ SHPSC for approval of AS.	31.03.2027

					approval. AS will be issued after getting MoHUA's approval. Scrutiny of the 2 bids received is in progress. Permission is awaited from the Govt. for constructing the STP at the West Hill Industrial Estate.		

Mobile FSTP

No.	Location	Implementing Agency	Capacity of the STP proposed in MLD	Status of Project (in Detail)	Incremental Progress	Likely Date of Completion of DPR preparation/ Tendering
1	Mobile Treatment unit – Chalakudy – by BHOUMA ENVIROTECH PVT LTD		0.036	Operational		
2	Mobile Septage Units- 2 nos, Alappuzha Municipality (AMRUT-1,0)	Alappuzha Municipality/ AMRUT	0.02 (0.01 x 2 nos.)	Physically completed.	Both units delivered. The trial run was done by Bhouma on 05.07.2025. As per the test results (dated 28.07.2025) given by the KSPCB it was observed that the faecal coliform content in the effluent taken from both units and the oil & grease content in the effluent of one unit were above the allowable limits. Hence the ULB has asked Bhouma to conduct the trial run & testing again. This time the ULB is planning to give samples for testing to the KSPCB's lab as well as to a NABL accredited lab suggested by the	

					KSPCB. Trial run & testing to be conducted again by Bhouma. Trial run was done again by Bhouma on 15.11.2025. As per the test results received, all parameters were found to be within the allowable limits prescribed by the KSPCB. MTUs are to be made operational by the ULB.	
3	Mobile Treatment Unit - Kodungalloor, Neyyattinkara, Chirayinkeezhu, Kumarakam, Wadakkancherry			proposal stage		
4	Mobile Septage Treatment Units – 2 nos., Kollam Corporation (AMRUT-1.0)	0.02 (0.01x2 nos.)	45%	Approval for procurement was issued via Govt. Order dated 10/11/25 as per the decision taken by the SHPSC held on 27/10/25. One unit delivered. Tender to be floated by the ULB in the GeM portal for the 2 nd unit.	Tender to be floated by the ULB in the GeM portal for the 2 nd unit.	Tender is expected to be floated for the 2nd unit by 15.01.2026.

Underground STPs

No	Projects	Status
1	UG STP for Thavanur Central Prison & Correctional Home, Malappuram Dist.	• Agreement executed with M/s CDD India for DPR preparation on 22-Nov-2024. • Consultant carried out a site visit. • Soil report received from Prison department on 02.06.25. DPR under preparation by CDD India, will be submitted within 19.07.2025. • Clarification required regarding funding & IMPACT centage.
2	UG STP at Parassinikkadavu, Anthur Municipality, Kannur Dist.	• Agreement executed with M/s CDD India for DPR preparation on 22-Nov-2024. • Consultant carried out a site visit. Local Body to initiate steps in carrying out the soil investigation. • Soil report received from LB on 02.06.25. • DPR under preparation by CDD India, will be submitted by 25.07.25

3	Govt. Ayurveda Hospital, Piravom Municipality, Ernakulam Dist.	• Agreement executed with M/s OXIRA Environmental Solutions Pvt Ltd for DPR preparation on 09-Apr-2025. Agency visited the Municipality on 29-Apr-2025, DPR under preparation. • The Local body to carry out soil test and to submit report.
4	3 projects in Alappuzha district i. Civil Station in Alappuzha Municipality ii. Revenue Tower, Taluk Office in Haripad Municipality iii. Taluk Hospital in Haripad Municipality	• RFQ invited for PFR from empanelled agencies with 09.06.25 as last date. 8 quotes received, under evaluation. Placed before the technical committee. Selection notice to be issued. • In the review meeting held by Principal Director on 05.06.2025, directed LB to proceed with soil test.
5	2 projects in Palakkad district i. PHC in Akathethara Grama Panchayat ii.KAP Camp in Puthupariyaram Grama Panchayath	• RFQ invited for PFR from empanelled agencies with 09.06.25 as last date. 8 quotes received, under evaluation. Placed before the technical committee. Selection notice to be issued. • In the review meeting held by Principal Director on 05.06.2025, directed LBs to proceed with soil test.

IV.Details of Industrial Pollution:

- Total registered industrial and non industrial units –**129915**
- Total Effluent and Sewage & Sullage Generating units: 14422 (Large & Medium: 1298; Small: 13124)
- Quantity of Effluent and Sewage & Sullage generated from 14422 units = 178.36 MLD (Large & Medium: 156.3 MLD – mentioned in MPR for the month of Jan, 2021; Small: 22.059 MLD)
- Total Effluent Generating units = **211** (As per online consent system)
- Quantity of Effluent generated from **11762** [11551 (As per Dossier: As on 2020) + 211 (As per online consent system)] units = **112.105** MLD (107.08 MLD + **5.025** MLD)
- 15095 consents issued in 2023. More industries are brought under consent purview
- OCEMS facility provided in 48 industries and is linked to the SPCB/CPCB servers. In case of exceedance follow up is done.
- Number of industrial units connected to CETP: As per the available data – 95 nos

Number and total capacity of CETPs (details of existing/under construction /proposed)

- 9 nos of CETPs are functional (Total Capacity – 9.545 MLD)
- Proposed CETPs –3 nos. (Total Capacity- 3.12 MLD).

Details of existing/under construction/proposed CETPs in the State						
CETP Name	Treatment Capacity	Operational Capacity	Status(Whether Operational or Non operational)	Number of member units	Number of complying units	Whether complying with parameters
Kinfra Apparel Park, St.Xavier's College P.O, Thumba, Thiruvananthapuram	4.5 MLD	4.5 MLD	Operational	10		pH- 7.1, TSS – 3.0 mg/l, TDS - 702 mg/l, BOD – 2.4 mg/l, COD - 40 mg/l, O & G - BDL, Ammoniacal Nitrogen – 8.3 mg/l, Nitrate Nitrogen – 13.3 mg/l, Total Kjeldahal Nitrogen-30.1 mg/l, Phosphates-0.0321 mg/l, Chlorides-324 mg/l, Sulphates-1.2278 mg/l, Flouride- 0.8 mg/l, Total Residual Chlorine - 2 mg/l, Phenolic Compounds - BDL, Sulphides-BDL, Cyanide-BDL as per analysis report dated 22.12.2025.
CETP,KINFRA,Elamannoor, Pathanamthitta	0.22 MLD	30 Cubic metre per day	Operational	4	4	pH - 6.5 to 8.5, TSS - 100, BOD - 30, O&G - 10,COD- 250 as per analysis report dated 12.01.2026
KSIDC Mega Food Park, Pallipuram, Cherthala, Alappuzha	2 MLD	0.5 MLD	Operational	6		pH-7.7 mg/L, BOD-30.24 mg/L, SS-21.2 mg/L O&G- BDL , as per analysis report dated 24.12.2025
Sea Food Park (India) Ltd., Aroor, Alappuzha	0.3 MLD	0.3 MLD	Operational	10		pH-7.5 mg/L, BOD-11.62 mg/L, SS-5 mg/L, O&G- BDL , as per analysis report dated 31.12.2025
Kinfra Small Industries Park Nellad, Mazhuvanoor	0.4 MLD	0.4 MLD	Operational	15		pH- 7.09, ¹ COD-248 mg/L, BOD-

						18.37 mg/L, Oil and Grease-BDL, Total Suspended Solids –182.4 mg/L, Fluorides < 1 mg/L, Chlorides-149.9 mg/L, Phosphate – 1.89 mg/L, Nitrate-1.10, Sulphates – 19.78 mg/L, Sulphides – 3.63 mg/l, Ammoniacal Nitrogen – 0.964 mg/l, Phenolic Compounds – BDL, as per analysis report dated 05.06.2025 Action is taken for preventing exceedance.
Rubber Park India Private Limited (New Plant), Common Effluent Treatment Plant, 2 A, Kaudileeyam, Rubber Park, Valayanchirangara, Ernakulam- 683556	0.25 MLD	0.25 MLD	Operational	17 Units Dormitory and Canteen		pH- 8.11, COD-40 mg/L, Oil and Grease-BDL, Total Suspended Solids – BDL, TDS –1.31, Chlorides-29.9 mg/L, Sulphates – 28.25 mg/L, Sulphides – BDL, Fluorides < 1 mg/L, Ammoniacal Nitrogen – 0.21 mg/L , Phenolic Compounds - BDL, Phosphates – 0.53 mg/l, Nitrate – 7.8 mg/l and Total Residual Chlorine - BDL as per analysis report dated 10.06.2025 Action is taken for preventing exceedance.
CSEZ, Kakkanad, Cochin Special Economic Zone Ernakulam	1 MLD		Operational	14		pH-7.23,TSS-BDL , TDS – 360 mg/l, Chloride – 6.9 mg/l, Residual Chlorine – BDL, phosphate-

						BDL, sulphide- BDL, ammonical nitrogen – 0.078 mg/L, BOD- BDL , COD-4 mg/l, Sulphate – 6.8 mg/l, Oil & grease – BDL, Copper- BDL, cadmium – BDL, Nitrite as Nitrogen – BDL, Nitrates as Nitrogen – 2.334 mg/l, Total Kjeldahl Nitrogen – 1.232 mg/l, Iron – BDL, Manganese – BDL, Nickel – BDL, Lead – BDL, Zinc – BDL analysis report dated 20.06.2025
KinfraTechno Industrial Park, Kakkanchery Chelambara P.O, Malappuram	0.675 MLD	0.675 MLD	Operational	17	17	pH – 7.5, BOD – 10 mg/l, COD – 44 mg/l, TSS – 38 mg/l, oil & grease – BDL as per report dated 09.02.2024
Kinfra Textile Centre, Nadukani, Pallivayal P.O, Thaliparambu, Kannur– 670142	0.2 MLD	0.2 MLD	Operational	2	2	pH – 8.91, BOD – 303.5 mg/l, COD – 736 mg/l, Oil & Grease – 10.72 mg/l, TSS – 104 mg/l as per analysis report dated 13.08.2025

CETP- Proposed						
CETP, Industrial department, Aroor	1.5 MLD	Proposed	• GM issued proceedings on 08/01/2024 to resume the 1 acre land from JIS international • The time line now given to the unit for handing over the land to the Industries Department , if it does not start industrial activities in the land, is extended for 6 more months from 19.01.2024.			NA
CETP, Chandiroor	1.5 MLD	Proposed	• Not constructed (Land procured)	Sanctioned Rs. 10 crore in the 2024-25 annual budget for the construction CETP	ACCEPT Environment Solutions have submitted a project proposal.	
KINFRA Spices Park, Muttom, Idukki	0.120 MLD		• ICO issued. CETP is ready to operate		Industries have not started functioning.	

Effluent Treatment Plant

Sl No	Industry Name	Industry Type	Consumption of water in ML D	Effluent Quantity in ML D	Mode of disposal	ETP Units	Date of monitoring	Limiting Standard	Latest Analysis report	
PATHANAMTHITTA										
1	18M Car Care, Mallapally East(P O),PTA	Car Wash	0.0018	0.0018	Re-use for car washing	ETP	24.09.2025	pH - 6.5 to 8.5, TSS <100, BOD<30, COD-250, O&G - 10	pH - 7.1, TSS - 25.1, BOD-11, COD-32, O&G - 2.4	Parameters are within the limit
IDUKKI										
2	Kattappana Dairy, E.R.C.M. P.U.Ltd, Kattappana, Idukki	Milk Processing Unit	0.25	0.2	Soak Pit	Screen chamber, Oil and Grease trap, balancing tank, aeration tank I&II, settling tank I&II, filtration, sludge drying bed and treated water tank	22.10.2025		pH=7.88, BOD=9.6, S.S=4.7, Oil & Grease=BDL	Parameters are within the limit
ERNAKULAM										
3	Fact Ltd., Udyogamandal Division, Eloor, Udyogamandal	Chemical Fertilizer	48	17	Periyar-downstream of Pathalam bund	Flash mixer, Clariflocculatro, spray pond, pH neutralizer, guard pond	03.05.2025	pH - 6.5 - 8.0, nitrates - 10mg/l, free ammonia - 4 mg/l, TKN - 150mg/l, oil and grease - 10mg/l, phosphate - 5mg/l	pH - 6.80, nitrates - 66, free ammonia - 2.72, TKN - 115.36, oil and grease - 5.44, phosphate -.05, ammoni	

								ammoniacal nitrogen - 75mg/l, hexa chromium - 0.1mg/l, SS - 100mg/l, fluoride - 1.5mg/l, arsenic - 0.2mg/l, vanadium - 0.2mg/l, total chromium - 2mg/l	acal nitrogen - 112.56, hexa chromium - BDL, SS - 21.2, fluoride - 0.068, arsenic BDL, vanadium - BDL, total chromium - BDL	
4	Fact Ltd., Petrochemical Division, Eloor, Udyogamandal	Petrochemical Unit	13.97	5.04	Periyar-downstream of Pathalam bund	Neutralisation, Equalisation, Biopond, Guard pond, Final clarifier, Denitrification reactor	29.04.2025	pH - 6.5 - 8.0, nitrates - 20mg/l, free ammonia - 5 mg/l, TKN - 100mg/l, oil and grease - 10mg/l, phenolic compounds - 1mg/l, ammoniacal nitrogen - 50mg/l, SS-30mg/l, BOD - 30mg/l, COD - 250mg/l	pH - 6.67, nitrates - NA, free ammonia - NA, TKN - NA, oil and grease - BDL, phenolic compounds - NA, ammoniacal nitrogen - NA, SS-56, BOD - 12mg/l, COD - 80mg/l	
PALAKKAD										
5	United Breweries Limited	Fermentation Industry	0.945	0.756	Reuse & excess to river	Collection tank, high rate anaerobic reactor, coagulation tank, primary settling	28/10/2025		pH-7.38 TSS - 15 BOD - 2.4 COD - 55 OIL AND GREASE - BDL	

						tank, aeration tank, secondary settling tank, pressure sand filter, activated carbon filter, reverse osmosis, evaporator.				
6	IMAGE (INDIAN MEDICAL ASSOCIATION GOES ECO FRIENDLY)	Common biomedical treatment facility	0.48	0.13	Reuse	Coagulation tank, primary settling tank, aeration tank, secondary settling tank, pressure sand filter, activated carbon filter, chlorination tank, ultra filtration	28/10/2025		pH - 9.25 BOD - 840 TSS - 12 OIL & GREASE - 7.3	
MALAPPURAM										
7	Ecogreen rendering plant, cherur (po), manhen gara	Chicken waste fertilizer	0.001	0.001	soakpit		01.09.2025	PH-6.5-8.5, BOD-30, TOTAL SUSPENDED SOLIDS-100, OIL AND GREASE -10	PH- 7.8, BOD-6.4, COD-16, TOTAL SUSPENDED SOLIDS -24, OIL AND GREASE-BDL	
8	Beton proteins,	Chicken waste	0.02	0.02		screen chamber, oil and	24.09.2025	PH-6.5-8.5, BOD-30, TOTAL	PH-6.9, BOD-11,	

	pallippa dam, mampa d	fertiliz er				grease,trap ap collectio n tank,aer ation tank,sett ling tank filter feed tank,pre ssure sand filter,chl orinatio n,activat ed carbon filter		L SUSPEN DED SOLIDS- 100,OIL AND GREASE -10	COD- 40, TOTAL SUSPE NDED SOLIDS -80, OIL AND GREAS E-BDL	
WAYANAD										
9	Milma Dairy MRCM PU Ltd Wayana d		0.3	0.20 2	Well	Irrigatio n, Soak pit	5/8/2025		PH- 7.12, BOD- 97.8, TOTAL SUSPE NDED SOLIDS -137.6, OIL AND GREAS E-74.8	BOD ,TSS, OIL AND GRE ASE VAL UE PER MIS SIBL E LIMI T EXC EED ED
KANNUR										
1 0	Mathru bhumi Printing & Publishi ng Co.Ltd., Nadal, Bypass Road, Edakka d.P.O., Kannur Dt - 670663	Printin g press	0.00 6	0.00 524	Gardeni ng / Soak pit		07/08/202 5		PH- 6.46,TS S- 14,BOD - 9,COD- 24,OIL AND GREAS E-2.04	
1 1	Shabari Cottons Pvt Ltd,Nad	Textile dyeing	0.11 3	0.10 74	Soak pit	ETP Units	31/07/202 5		PH- 9,TSS- 117,BO D-	

	ukani,P allvayal (P.O),T halipara mbu								343.5,C OD- 832,OIL AND GREAS E-8.04	
KASARGODE										
12	Vpk Motors	Servic e Station	0.00 575	0.00 5	Soak Pit	ETP	13.11.202 5	PH-6.5- 8.5,BOD- 30,TOTA L SUSPEN DED SOLIDS- 100,OIL AND GREASE -10 ,COD- 250	PH- 6.8,BO D- 9,TOTA L SUSPE NDED SOLIDS -45,OIL AND GREAS E-1.1 ,COD- 24	Conf ormi ng to Stan dards
13	Oxygen promax	Rende ring plant	0.00 89	0.00 72	Cooling tower, boiler feed and soak pit	ETP	22.10.202 5	PH-6.5- 8.5,BOD- 10,TOTA L SUSPEN DED SOLIDS- 100,OIL AND GREASE -10	PH- 7.1,BO D- 7.2,CO D- 24,TOT AL SUSPE NDED SOLIDS -72,OIL AND GREAS E-7.4	Conf ormi ng stand ards

Solid Waste Management

- The state has taken strong measures to implement effective waste management systems and enforce regulations designed to streamline the operations. Acknowledging the urgent need for sustainable waste practices, a comprehensive strategy has been developed that encompasses infrastructure improvements, public education initiatives, and the establishment of strict policies. To support this, the Government of Kerala enacted Amendment Ordinances to the Kerala Municipality Act and the Kerala Panchayat Raj Act on December 8, 2023.
- Under the revised legislation, all citizens are required to submit segregated waste to their local body or to an authorized agency for proper scientific processing. Local bodies may

also face fines for failing to act in accordance with state government directives. Furthermore, institutions and commercial establishments are now obligated to keep their premises litter-free and ensure that all waste generated is disposed of properly. These activities are closely monitored at both the local and state levels to ensure effective implementation.

- In the state, a total quantity of 10076.17 TPD waste is being generated as per present population, in which 3011.23 TPD of waste is produced in urban and 6561.12 TPD in rural areas, respectively, Approximately 73% of the waste generated is organic material and in the remaining portion, 22% is inorganic waste and 5% reject material. Out of 10076.17 TPD waste generated in the state, 7398.66 TPD is biodegradable waste, 2173.72 TPD is non biodegradable waste and 503.81 TPD is inert.
- The State's policy on biodegradable waste management adopts a decentralized approach, emphasizing source-level treatment of biowaste generated by households. This policy encourages the use of composting devices and biogas plants at the household level to process organic waste, thereby reducing the burden on centralized waste management systems. To address gaps where households may lack capacity, community facilities are implemented to manage surplus waste. This integrated approach promotes sustainability by minimizing transportation needs, reducing landfill waste, and fostering the production of renewable resources like compost and biogas, while also encouraging community participation and local solutions.
- Dry waste generated from households and institutions is collected and transported to Material Collection Facilities (MCFs) or Resource Recovery Facilities (RRFs), where it is segregated into recyclable and non-recyclable waste. The recyclable waste is sent to recycling units, while non-recyclable waste is directed to co-processing facilities, such as cement plants, for energy recovery. After separating biodegradable and non-biodegradable waste from the total waste generated, the remaining portion, known as inert waste, is utilized to fill low-lying areas, offering an environmentally sustainable method of disposal`

1. BIODEGRADABLE WASTE MANAGEMENT

For biodegradable waste management in the state, various composting devices and biogas units are utilized to manage wet waste at its source. The compost produced from household waste treatment is used as fertilizer for gardening in individual residences.

Approximately 80% of the total biodegradable waste generated is managed at the source, while the remaining 20% is handled by community-level facilities operated by local bodies.

Depending on land availability, a range of medium-capacity decentralized composting facilities such as aerobic compost units, organic waste converters, windrow plants, and biomethanation facilities have been widely established across Kerala. The compost generated from community facilities is branded and marketed as fertilizer to local farmers through the Krishi Bhavans within the local body. Additionally, centralized facilities, like compressed biogas (CBG) plants, are being planned and implemented to manage waste more economically. Construction of a CBG plant in Ernakulam district has already begun, and six other projects are in the planning stages.

Table 1. Biodegradable Waste Management Facilities in the State

District Name	Total BDW Generation (TPD)	Total capacity of Compost plants (TPD)	Total capacity of Bio-methanation plants (waste to energy in TPD)	Total Rendering Capacity (TPD)	Total BDW Processing Capacity (TPD)
01 Thiruvananthapuram	774.83	750.68	90.87	0.00	841.55
02 Kollam	567.14	347.93	67.28	80.00	495.21
03 Pathanamthitta	224.92	159.62	27.97	15.00	202.59
04 Alappuzha	424.15	410.21	62.08	0.00	472.29
05 Kottayam	393.31	325.35	31.12	0.00	356.47
06 Idukki	208.38	260.04	17.86	0.00	277.90
07 Ernakulam	779.34	571.42	72.48	190.00	833.90
08 Thrissur	691.90	530.48	92.47	105	727.95
09 Palakkad	601.79	424.06	99.66	95	618.72
10 Malappuram	968.70	534.50	126.00	250	910.5
11 Kozhikode	744.15	742.64	63.67	30.00	836.31
12 Wayanad	170.56	184.52	14.40	12.00	210.92
13 Kannur	564.81	477.63	57.91	54.00	589.54
14 Kasaragod	284.68	190.41	27.99	70	288.4
Grand Total	7398.66	5909.49	851.76	901	7662.25

For managing the 7398.66 TPD of biodegradable waste generated, there is a facility of 7662.25 TPD across the state and hence there are no existing gaps. In order to account for the future generation, the state is taking steps to strengthen the source level treatment system in rural areas and to establish centralized facilities in urban areas.

2. NON-BIODEGRADABLE WASTE MANAGEMENT

For managing dry waste, women's self-help groups known as Harita Karma Sena collect primarily segregated dry waste from households and establishments, transferring it to Material Collection Facilities (MCFs) and Resource Recovery Facilities (RRFs) for further sorting and processing. At these facilities, after secondary segregation, recyclable waste is sent to recycling units, while non-recyclable waste is transported to co-processing facilities, such as cement plants, where it is used as Refuse-Derived Fuel (RDF) for energy recovery. Both government and private agencies ensure the safe transportation of waste.

Table 2: Details of Solid Waste Management facilities in the state

Facility	Up to October 2024	Up to July 2025
RRF	167 Nos	167 Nos
MCF	1272 Nos	1272 Nos
Mini MCF	19156 Nos	19808 Nos
Godown facility (Pvt+CKCL)	67 Nos 447.37 TPD	130 Nos 1289.24 TPD
Containers for temporary storage	198 No.s	198 No.s
Total Capacity	2797.83TPD	2975.72 TPD

Table 3. Non Biodegradable Waste Management Facilities in the State

District Name	Total NBDW Generation	Facilities in Local Bodies (TPD)	CKCL Godown Facility (TPD)	Pvt agency Godown facility (TPD)	Total NBDW processing Capacity (TPD)
01 Thiruvananthapuram	239.67	127.68	33.72	5.07	166.47

02 Kollam	166.3	124.43	34.48	23.94	182.85
03 Pathanamthitta	63.41	61.87	6.88	3.62	72.37
04 Alappuzha	121.05	137.13	85.09	11.62	233.84
05 Kottayam	111.78	108.09	71.58	18.31	197.98
06 Idukki	57.58	58.77	4.65	6.04	148.44
07 Ernakulam	239.46	151.45	140.8	60.97	353.22
08 Thrissur	203.75	212.45	13.01	39.08	264.54
09 Palakkad	169.08	132.62	100.37	49.26	282.25
10 Malappuram	278.08	166.42	59.76	130.39	356.57
11 Kozhikode	226.63	127.07	24.81	85.32	237.20
12 Wayanad	48.43	29.1	8.9	54.28	92.28
13 Kannur	168.45	164.94	87.53	17.81	270.28
14 Kasaragod	80.06	84.46	93.38	18.59	196.43
Grand Total	2173.73	1686.48	764.96	524.30	2975.74
Kerala Enviro Infrastructure Ltd (KEIL)					16
Grand Total (TPD)					2991.74

All local bodies have developed comprehensive plans for the movement of vehicles to collect waste from households and transport it to processing facilities. The implementation of these plans is monitored at both the district and state levels through the Harithamithram App, ensuring efficient waste collection without accumulation and adequate availability of vehicles for waste management. To enhance oversight, all waste-transporting vehicles are required to have GPS tracking, and the Kerala State Pollution Control Board has set up a web portal for real-time monitoring of waste-carrying vehicles, both within and across state borders.

3. LEGACY WASTE MANAGEMENT

Legacy dump sites are remediated through biomining, a process that utilizes microorganisms and natural methods to excavate, treat, segregate, and recover valuable materials from long-accumulated waste dumps. These legacy wastes consist of organic matter, plastics, metals, and other materials that have been compacted and decomposed over many years. The soil produced from biomining is utilized to fill low-lying areas at various locations. This process

effectively sorts the waste into various categories, including soil, stones, RDF, glass, plastic, tires, wood, and footwear.

Table 4. Details of processed quantity of biomining sites

Stage of Biomining	Number of Sites	Quantity of waste (in MT)		
		Total	Processed waste	Unprocessed waste
Completed Sites	24	358278.55	358278.55	0
Ongoing	19	1359359.72	962389.14	396970.58
To be started	16	173719.29	0	173719.29
Grand Total	59	1891357.56	1320667.69	570689.87

Remediation Completed Sites

	Name of Districts	Name of Local Body	Legacy waste site (district wise)	Quantity of processed waste (in MT) in each site
1	Thiruvananthapuram	Thiruvananthapuram Corporation	Palayam market	4804
2	Thiruvananthapuram	Thiruvananthapuram Corporation	Erumakuzhi, near chala market	900
3	Kollam	Kollam Corporation	Kureepuzha	83926
4	Pathanamthitta	Pathanamthitta Municipality	Near Mini stadium, PTA	800
5	Pathanamthitta	Adoor Municipality	Kaimalapara, Ward no. 2, Adoor	500
6	Pathanamthitta	Pandalam Municipality	Near RRF Unit, pandalam	400
7	Ernakulam	Kalamassery Municipality	Kalamasseri	35000
8	Thrissur	Kodungalloor Municipality	Pullut, Chappara, Kodungalloor	26000
9	Thrissur	Guruvayur Municipality	Choolpuram, Guruvayoor	20000

10	Thrissur	Kodungalloor Municipality	T.K.S. Puram, Kodungalloor	607
11	Palakkad	Pattambi Municipality	Pattambi, Sankara mangalam	1041.1
12	Malappuram	Malappuram ulb	Puliyettummal,Near Inkel city, Malappuram	5079.04
13	Malappuram	Tirur ulb	Trenching ground, Otilathara	3079.2
14	Malappuram	Perinthalmanna Municipality	Perinthalmanna, Kunnappalli	200
15	Malappuram	Manjeri Municipality	Vettekkode, Manjeri	13902.11
16	Kozhikkode	Kozhikkode Municipal Corporation	Kalliyi, ward- 56, beside the river	15
17	Kozhikkode	Koyilandy Municipality	Koyilandi	40
18	Kozhikkode	Kozhikkode Municipal Corporation	Njaliyan parambu	130,000
19	Thrissur	Thrissur Corporation	Laloor	19500
20	Palakkad	Alathur Grama Panchayath	Alathur	1824
21	Palakkad	Vadakkanchery Grama Panchayath	Vadakkanchery	1520
22	Palakkad	Nemmara Grama Panchayath	Nenmmara	3641.1
23	Kottayam	Mundakkayam Grama Panchayath	Mundakkayam	4000
24	Kottayam	Erumeli Grama Panchayath	Erumeli	1500
		Total		358278.55

Remediation work in progress

Sl No.	Name of Districts	Name of Local Body	Legacy waste site (district wise)	Quantity of waste (in MT) in each site	Quantity of unprocessed waste (in MT)
1	Thiruvananthapuram	Attingal Municipality	Attingal, Chudukad	11365	3565
2	Kottayam	kottayam municipality	Vadavathoor, Kottayam	80943.2	67992.39

3	Ernakulam	Kothamangalam Municipality	Kumbalathumuri, Kothamangalam	19146	19146
4	Idukki	Thodupuzha Municipality	Parakadavu, Thodupuzha	28000	11200
5	Ernakulam	Kochi Corporation	Brahmapuram, Kochi	843000	110535
6	Thrissur	Chavakkad Municipality	Chavakkad	5000	1400
7	Thrissur	Wadakkanchery Municipality	Kumbalangad	21063	10425.2
8	Palakkad	ottapalam municipality	Panamanna, Ottappalam	37600	9500
9	Kannur	Kannur Corporation	Chelora	43727.32	10853.32
10	Kannur	Mattannur Municipality	Mattannur, Karithurparamba	15680	5352
11	Kottayam	Changanaserry Municipality	Fathimapuram, Changanaserry	7300	3650
12	Ernakulam	Muvattupuzha Municipality	Kurianmala, Muvattupuzha	44589	38346.54
13	Thrissur	Irinjalakuda Municipality	Irinjalakkuda, Mangadikunnu	14000	9800
14	Palakkad	Palakkad Municipality	Koottupatha, Kodumba	73827	20671.56
15	Kannur	Thalaserry Municipality	Thalaserry, Punnoolpetty	45430.4	27258.24
16	Thiruvananthapuram	Thiruvananthapuram Corporation	Vizhinjam	3177.1	2859.39
17	Ernakulam	North Paravoor Municipality	Vedimara, North Paravoor	18666	18666
18	Thrissur	Wadakkanchery Municipality	Wadakkanchery, Kumblangad	16152	2422.8
19	Kozhikode	Vadakara Municipality	Puthiyappu, Vadakara	30693.6	23327.136
		Total		1359359.72	396970.576

Remediation Work about to start

SL No.	Name of Districts	Name of Local Body	Legacy waste site (district wise)	Quantity of waste (in MT) in each site
1	Alappuzha	Kayamkulam Municipality	Murikkummoodu, Kayamkulam	6567.04
2	Alappuzha	Alappuzha Municipality	Sarvodayapuram	57200

3	Kottayam	Erattupetta Municipality	Erattupettah, Thevarrupara	8000
4	Idukki	Kattappana Municipality	Kattappana, Puliyanmala	12000
5	Wayanad	Kalpetta Municipality	Vellaramkunnu, Kalpetta	9485.37
6	Kannur	Iritty Municipality	Iritty, Athithattu	1618.49
7	Kannur	Payyannur Municipality	Payyannur, Moorikkovval	2100
8	Kannur	Kuthuparamba Municipality	Palapparamba, Kuthuparambu	12081.6
9	Kasaragod	Kasaragod Municipality	Kelugudde, Kasaragod	12873.6
10	Kasaragod	Kanhangad Municipality	Kanjhangad, Trenching Ground Chemmattamvayal	3481.69
11	Kollam	Kottarakkara Municipality	Ugrankunnu, Kottarakkara	6596
12	Alappuzha	Mavelikkara Municipality	Puthiyakavu, Mavelikkara	2880
13	Idukki	Munnar Grama Panchayath	Munnar	18163
14	Ernakulam	Koothattukulam Municipality	Town-Ward Koothattukulam 15,	1346
15	Thrissur	Chalakkudy Municipality	Near Cosmos Club, Chalakkudy	6769
16	Kasaragod	Mangalpady Grama Panchayath	Kubanoor	12557.80
		Total		173719.29

- Total number of Urban Local Bodies (6 Corporation and 87 Municipalities) : 93 Urban
- Total Urban Population : 79,36,885 (As per 2011 Census)
- Current Municipal Solid Waste Generation : 3011.23 TPD (Urban local bodies- Based on population)
- Processing Capacity : 3870.35 TPD
- Gap in Municipal Solid Waste Management : 0 TPD
- The following projects are completed and functioning:
 - Black soldier plant 50 TPD Brahmapuram, Ernakulam by ZIGMA
 - Black soldier plant 50 TPD Brahmapuram, Ernakulam by FABCO

Online Vehicle Tracking Portal

Rule 16 (6) of Solid Waste Management Rules, 2016 and on the order of Hon'ble NGT board developed an online vehicle tracking portal through ULCCS to monitor inter-state waste movement. GPS/ Mobile tracking through app can be implemented through this portal.

Clearing and beautification of Garbage Vulnerable Points

With active public participation in a mass campaign, garbage vulnerable points were pinpointed. These 1983 locations underwent clearing and beautification efforts, with students and environmentalists playing a crucial role. The once unsightly wayside waste heaps transformed into attractive gardens, conveying a significant message on cleanliness to the public. The operation and maintenance (O&M) of each of these parks are scheduled to be carried out with the support of LSGIs, Resident Welfare Associations, trade unions, NGOs, etc.

Sanitary Waste Management

Following satisfactory monitoring of its operation, new plants are now being proposed in all districts. The total number of planned projects for implementation in the state is 27. These plants will have a cumulative capacity of 23.05 TPD.

Community Level Sanitary Waste Incinerator Projects taken in local bodies			
Sl No.	Name of District	Total Projects taken up in districts	Capacity (TPD)
1	Thiruvananthapuram	2	2
2	Kollam	7	5
4	Alappuzha	1	1
5	Kottayam	2	2
6	Idukki	1	1
7	Ernakulam	1	3
8	Thrissur	4	0.55
9	Palakkad	1	1
10	Kannur	4	2.5
11	Kasargod	4	5
TOTAL		27	23.05

Local bodies, with the assistance of women's self-help groups known as Harita Karma Sena, manage the collection of dry waste from households and establishments. Subsequently, the collected waste undergoes segregation at Material Collection Facilities (MCFs) and Resource Recovery Facilities (RRFs). Recyclable waste is sent to recycling units, while non-recyclable waste is directed to co-processing facilities, such as cement plants, as Refuse-Derived Fuel (RDF) for energy recovery. To address specific waste components like sanitary waste, e-waste,

construction & demolition waste, and hair waste, private partnerships are encouraged. Continuous monitoring of projects in this sector is conducted to ensure the effective maintenance of the system. The reject waste generated statewide in households/shops is segregated at MCFs and is sent to cement factories for onward utilization for energy generation. Quantity of Reject Waste disposed off

	Reject Quantity (TPD)
From LB Facility	403.37
From CKCL facility	337.08
From Private Facility	59.89
TOTAL	800.34

In order to manage the waste generated including the future requirements, projects have been planned & proposed in local bodies. Projects worth ₹ 45.2 cr have been taken up in local bodies for wet waste management and ₹18.54 cr have been taken up in local bodies for dry waste management. For clearing the existing legacy dumpsites, projects worth ₹120 cr have been taken up under KSWMP and projects worth ₹56 cr taken up under other funds.

Rendering plants

Meat rendering plants process animal by-product materials for the production of tallow, grease, and high-protein meat and bone meal. Plants operate in conjunction with animal slaughterhouses or poultry processing plants. The Government of Kerala developed guidelines for the operation of rendering plants which led to the standardization of facilities. The facilities use wastes as an input material to create valuable products as new outputs. The aim of resource-recovery is to reduce the amount of waste generated and optimize the values created from waste. Here, the newly functioning plants lead to the management of around **1068** TPD of poultry waste which would have ended-up as waste and created a menace to the people.

Details of Existing Rendering Plants

District	No. of plants	Plant Capacity (TDP)
Kollam	2	80

Pathanamthitta	1	15
Ernakulam	6	190
Thrissur	4	105
Palakkad	6	95
Malappuram	16	250
Kozhikode	1	30
Wayanad	1	12
Kannur	2	54
Kasargod	2	70
	41	901

Rendering plants are available in 10 districts and the wastes from other 4 districts are also processed through these plants.

Status of proposed Waste- to- Energy Plants

Sl No.	Plant Location	Status of operation	Power generation
1	Palakkad Kanjikode	At Palakkad Municipality, around 50% of the construction work for the 110 TPD CBG plant has been completed.	110 TPD
2	Malappuram	8.09 acres of land identified by District Administration at Kurumbathur village Tirur taluk for setting up of WtE plant. The land is under possession of KSIDC. Details of this are reported to be submitted to Government already by LR Deputy & ROOHFWR	
3	Ernakulam Brahmapuram	Construction of CBG Plant ongoing	150TPD
4	Kannur Chelora	Work of plant can be started only after the work of Biomining is carried out. WIE plant is proposed in 9.7 acres of land after clearing the legacy waste. Tendering completed and 65 DPR prepared by Blue planet. Consent application is yet to be received. For biomining, volume of legacy waste - 1,22,844 m3 (NIT). First given to Zonta and they asked to revise the amount of biomining Again retendered and	

		identified a suitable contractor, Jan AdharSevabhaviSanstha.Bio mining has already started. Agreement to be executed Bio-mining is already started (6500) cum is biomined (50%)	
5	Thrissur Corporation	Proposal for CBG plant in the district is at various stages of planning.	30 TPD
6	Thiruvananthapuram Corporation	Proposal for CBG plant in the district is at various stages of planning.	150 TPD
7	Kollam Corporation	Proposal for CBG plant in the district is at various stages of planning.	150 TPD
8	Kozhikode Corporation	Proposal for CBG plant in the district is at various stages of planning.	180 TPD
9	Changanassery Municipality	Proposals for CBG plant in the district is at various stages of planning.	20 TPD

Other interventions taken by the State in Solid Waste Management

Door-to-Door Waste Collection

In the fiscal year 2023–2024, there has been a significant increase in door-to-door waste collection coverage across the State. 100% door to door collection is ensured by special interventions at LSGI level. Haritha Mithram app facilitated developing systematic and professional approach on customized strategies for increasing the D2D coverage, user fee collection, segregated material movement, and scheduled transportation of waste from door steps to disposal facilities.

Registration of Unauthorized Dealers

Scrap dealers are pivotal in the non-biodegradable waste management process in Kerala, contributing significantly to the collection and processing of waste. They engage in collecting, sorting, and processing diverse scrap materials, such as metals, paper, plastics, and electronics, contributing to the reduction of waste reaching the mainstream. Efforts are underway to register them officially and evaluate the volume of waste they manage.

GPS Tracking Facility

To control the illegal dumping of waste, GPS tracking systems have been mandated for vehicles transporting waste. The Kerala State Pollution Control Board has created a web portal for real-time monitoring of waste-carrying vehicles, both interstate and intrastate. Additionally, vehicles involved in the transfer of non-bio waste have been equipped with security stickers embedded with holograms.

Sanitary landfill

The non-usable, non-recyclable, non-biodegradable, non-combustible and non-reactive inert waste and preprocessing rejects and residues from waste processing facilities shall only go to sanitary landfill and its specifications are given in zi of Rule 15 of the Solid Waste Management Rules, 2016.

In the State, for a Regional Sanitary Landfill 25 acre of land has been earmarked by KINFRA at site of FACT at Ernakulam and action is being carried out to set up. Another secured landfill is under construction in Attingal Municipality.

VI. Bio-medical Waste Management:

As per Annual Report in the whole state for the year 2024-25:

- Total Bio-medical generation: 96773.817 kg/day
- No. of Hospitals and Health Care Facilities: 29465
- Total Bio-Medical waste treated : 96773.817 kg/day

Board has entrusted Council of Scientific and Industrial Research organization , National Institute for Interdisciplinary Science and Technology (CSIR-NIIST) for conducting a detailed assessment of healthcare facilities in the Kerala state. The works include field inspection, field data collection; estimation of gap and for projected/ extrapolated requirements of CBWTF'S for next ten years and entered into an agreement.

VII. Hazardous Waste Management:

As per Annual Report in the whole state for the year 2023-24:

- Total Hazardous Waste generation: 44915.3351 Metric Tonne/year
- Total hazardous waste recycled: 2727.8695 Metric Tonne/year
- Total hazardous waste utilized: 54.165 Metric Tonne/year
- No. of Industries generating Hazardous waste: 2302
- Treatment Capacity of all TSDFs in the State: 27,50,000 MTA for 45 years
- Total hazardous waste treated (captive and Common) : 57451.16 Tonne/year

VIII . Plastic Waste Management:

- Total Plastic Waste generation: 68683.7 TPA (as per annual report in the whole state for the year 2024-25).
- Material Collection Facility – 1233 nos.; Resource Recovery Facility-136 nos.
- Processing including recycling- 66402.5 TPA
- Gap between current status and desirable level : 2281.2 TPA

IX. Details of Alternate Treatment Technology being adopted by the State/UT:

- Decentralized Wastewater Treatment System (DEWATS) system coupled with Phyto-remediation was provided in a slum area, Chathanad in Alappuzha, Kerala. The system consists of Anaerobic baffle reactor, planted gravel filter. Waste water from the houses in the colony is collected through pipe line and then it enters the anaerobic baffle reactor and then it is passed through planted gravel filter and treated sewage is discharged into drain
- Centre for Water Resources Development and Management, Kozhikode submitted “proposal for the study of sewer infiltration into water resources via isotopic tracing and treatment of liquid waste by constructed wetland” submitted to Indian National Committee on Ground Water(INCGW) on 25-10-2021, a response is awaited from the INCGW.
- FSTP at Madakkathara, Thrissur is funded by UNICEF. The unit consists of Anaerobic Stabilization Reactor, Tiger Bio-filter, Intermediate Tank, PSF, ACF, Chlorination unit and Treated water tank.



X. Identification of polluting sources including drains contributing to river pollution and action as per Hon’ble NGT order on in-situ treatment:

- Polluting sources including drains contributing to river pollution were already identified and according to that action plans were prepared and submitted to CPCB. STPs were proposed in the action plans wherever necessary. Measures for management of waste were also incorporated in the action plans.

XI . Details of Nodal Officer appointed by Chief Secretary in the State/UT:

- Vide G.O.(Rt)No.93/2020/WRD dated 28.01.2020 Government of Kerala nominated Deputy Secretary (Projects),Water Resource Department as the nodal authority, Government of Kerala for monitoring the compliance of the directions in the order on

fortnightly basis and to maintain record of progress and to act as an accountable person to the Chief Secretary for the purpose.

- Vide G.O.(Rt)No.223/2020/WRD dated 12.03.2020 Government of Kerala appointed a monitoring committee comprising of Additional Chief Secretary, Water Resources Department as Chairperson and Principal Secretary, LSGD, Principal Secretary, Environment, Secretary, Water Resources Department and Staff officer to Chief Secretary as nodal officers & members.

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:

- Regarding OA 514/2019 (Solid Waste Management) Chief Secretary convened meetings on 22.09.2020 and 25.09.2020 Regarding OA 804/17 (Implementation of Hazardous and Other Waste Management Rules, 2016) Chief Secretary convened meeting of 16/10/2020. Additional Chief Secretary Labour Department had convened 1st meeting on the same for Chief Secretary on 09/10/2020. Meeting of State Level Advisory Committee (SLAC) on Waste Management, chaired by Chief Secretary is being conducted in the State regularly to discuss the various matters. 38 such meetings were conducted in Kerala so far. Last SLAC meeting was conducted on 12.02.2021.
- Meetings were held by the Chief Secretary on 11-12-2020, 30-03-2021 and 05-04-2021 with the Stake holder Departments/ Authorities, to review the progress in implementation of the projects taken up on the basis of orders of the Hon'ble National Green Tribunal in O.A. No. 673 of 2018(PZ).
- RRC Meetings were held on 28/05/2021 and 23/06/2021 and Review meeting was held by the Chief Secretary on 31-05-2021. RRC meeting convened on 22.07.2021. Review meeting was held by the Chief Secretary on 27.07.2021. RRC meeting convened on 02.09.2021 and Review meeting was held by Chief Secretary on 09.09.2021. RRC meeting convened on 01.10.2021 and Review meeting was convened by Chief Secretary on 23.10.2021. RRC meeting convened on 29.11.2021 and Review meeting was convened by Chief Secretary on 16.12.2021. RRC meeting convened on 13.01.2022 and Review meeting was convened by Chief Secretary on 27.01.2022. RRC meetings convened on 23.02.2022,01.04.2022 ,15.07.2022,13.10.2022,2/12/2022,08.02.2023,13.04.2023,20.05.2023, 11.08.2023,11.10.2023, 27.12.2023, 17.02.2024, 23.03.2024, 12.06.2024,01.08.2024 and 21.11.2024, 17.12.2024, 05.03.2025, 29.08.2025

- Review meetings were convened by Chief Secretary on 31.03.2022, 19.04.2022, 26.5.2022, 21.6.2022, 15.07.2022 & 23.08.2022, 18/10/2022 & 21.12.2022, 09.02.2023, 31/07/2023, 06.11.2023, 25.03.2024, 08.07.2024, 16.11.2024, 13.06.2025

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river:

Latest Analysis report of Polluted River Stretches are attached as Annexure I of the Monthly Progress Report.

XIV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:

1176 notices under the provisions of Water Act has been issued from the Board to apartments/ hotels/houseboats/ industrial units as having no valid consent from the Board/ no sewage treatment plant / non functional sewage treatment plant so far. In Alappuzha district a total of 790 notices were issued including Closure Intention Notice and Consent Withdrawal Intention Notice were issued to 624 houseboats, 112 Closure Intention Notices and 54 Show Cause Notices were issued other units including peeling shed/ resorts/ hotels for illegal discharge(unauthorized units) coming into the water bodies and to Vembanad lake. A total of 167 apartments/ restaurants are served notice in Ernakulam district. In Kottayam notices were issued to 215 units including 106 house boats and 109 apartments/ hotels/restaurants/ auditorium/ lodge/ service station/ nursing homes. In Kollam district 2 Closure Intention Notice and 2 show cause notices were issued to units functioning without Consent. Direction was also issued Neendakara secretary as wastewater discharge noticed from fish peeling sheds in Neendakara. Show cause notice issued to 2 corporations & 7 municipalities for isolations under Water Act and show cause notice for not imposing environmental compensation was issued to 2 corporations and 6 municipalities and hearing conducted on 07/09/2023.

XV. Ground water regulation:

As per the consolidated report submitted in O.A.No.496/2016, the Ground water Department is implementing a “Scheme for Ground water Conservation and Recharge”. Under this scheme, rain water collected from the roof-top is harvested for recharging the aquifer through dug wells and recharge pits. The recharging of deep aquifers through bore wells is also being experimented. The total budget outlay during the period 2019- 2020 was

450 lakhs. It is estimated that there are about 65Lakhs dug wells in Kerala and the ground water extractions by means of traditional dug wells are prevalent source of fresh water. There are number of public dug wells left abandoned and needs renovation. These dug wells can be considered as suitable stretches to recharge ground water. The Central Groundwater Board has prepared a Block wise master plan in 2015 to take up artificial groundwater recharge to groundwater. The same can be used as a guideline to stream line groundwater recharge activities of the Department.

The State Government has enacted the Kerala Groundwater (Control and Regulation) act 2002 to provide for the conservation of groundwater and for the regulation and control for its extraction and its use in Kerala. The State Groundwater Authority has been constituted on 16.01.2004 to notify the area where groundwater abstraction is to be regulated. As per the Act Groundwater User' refers to the person who are using ground water from a pumping well (> 1.5 HP for Open dug wells and > 3 HP for BW/TW) for any purpose including domestic purpose. In notified blocks of the state, permission required for the construction of new groundwater abstraction structures.

The Ministry of Water Resources, River Development & Ganga Rejuvenation (Central Groundwater Authority) has recently issued a new guide lines to regulate and control groundwater extraction in the country in pursuance of the directions of Hon'ble National Green Tribunal and the powers conferred under section 5 of the Environment (Protection) act, 1986 (29 of 1986) dated 24th December 2020.

XVI. Good Irrigation practices being adopted by the State:

Irrigation in Kerala is classified into two schemes.

- Major Irrigation and Medium Irrigation
- Minor Irrigation

The Irrigation department develops and maintains major and medium irrigation schemes/projects across the state. The primary activity of the Department is providing irrigation facility to the farmers of the State through its system comprising reservoirs, main canals, branch canals, feeder canals and other related infrastructure. The department maintains water distribution through the canal system. Water distribution is being carried out based on the cropping pattern of a particular area and a water distribution calendar prepared and approved by a committee headed by the District Collector with members of farming community, other stake holders and department officials. For proper distribution and

maintenance of the canals Water Users Association (WUA)/ Farmers Association plays an important role.

1. Minor Irrigation

- Minor Irrigation schemes are divided into Class-I and Class-II depending on the ayacut served. Schemes serving above 50Ha up to 2000Ha are classified as MI Class-I. Lift irrigation schemes are also Minor irrigation schemes serving at least 40Ha. Aims to Construct RCBs, SWEGBs, ponds, VCBs, check dams, salt water barriers, storage weirs, cross bars, and protection works etc.
- MI Class-I schemes Minor works like improvements to tanks and rivulet, construction of check dams, sluices, regulators, bunds, vented crossbars, salt water barriers, layout of channels and drainage structures etc are usually undertaken under MI Class-I schemes.
- MI Class-II Schemes Minor irrigation works including construction of vented cross bars, canals, improvements to natural drains etc are taken up under this scheme.

Lift Irrigation

- Lifting of water is required for irrigating fertile land at a higher elevation where gravity flow of stored water is not possible. Although mechanical lifting is required, these schemes are very useful and serve the marginal farmers of the State.
- Optimum utilization of water by supplying designed quantity
- Works involving lifting of water with a command area not less than 40 hectares come under this category.
- This will increase in the ground water table in high altitude areas, Ensure water availability to farmers before the cropping period.
- This will reduce agricultural loss in high altitude areas due to water scarcity, their by reducing distress to farmers.
- At present the Irrigation Department has under its control 450 Lift Irrigation Scheme (LI schemes) with a total Ayacut of 43170ha.

- Micro Irrigation

- Micro-irrigation system is a modern method of irrigation in which water is delivered slowly. Usually in the form of discrete droplets, continuous drops, streams, etc. Micro-irrigation system is popular these days for its low cost and water-efficiency.

- The benefits of micro irrigation and precision farming are well demonstrated with an average increase in yield by three times. Pepper as a case in point shows enhancement from 1.9 kg/wine to 6/wine on precision agriculture. Coconut also shows increase in productivity to 150 nuts per plant as against 45 without precision irrigation support.
- In the coming year department is planning to implement atleast one micro irrigation scheme in each district with the coordination of line departments and farmers. Steps are initiated to identify the location as well as crops in coordination with the agriculture department.

XVII. Rain Water Harvesting:

In compliance with the Hon'ble NGT Order dated 11.09.2019 in O.A. No. 496/2016, the consolidated report of Kerala State regarding the present status of the implementation and action plans on rain water Harvesting for conservation of water was submitted by the Kerala State Government on 27.11.2019.

The State Groundwater Department has been implementing a scheme for Groundwater Conservation and Recharge under plan fund made available since 2004-05. The project component includes roof top rainwater harvesting for groundwater recharge through dug wells, recharge pits, bore wells and recharge shafts and construction of subsurface dykes and small check dams un micro water shed basis. The recharge schemes are being implemented as a long term measures to achieve sustainable groundwater development in the State. The Department is engaged in recharging groundwater through roof top rain water harvesting in public buildings and government schools and giving priority to implement such structures in notified blocks. The Department has successfully implemented roof top rainwater harvesting through recharge pits to enhance groundwater levels of dug wells in the Kattakkada Constituency of Thiruvananthapuram District. The Constituency was officially declared in November 14th 2019 as the first assembly constituency in Kerala to implement artificial groundwater recharging structures in all Government schools and offices. The State Groundwater Department has implemented 169 nos of recharge pit/direct dug well recharge schemes, 4 check dams and one sub surface dyke during the 12th plan period. In the 13th plan period as on October 2020, the Department has completed 370 nos of recharge pit/dug well recharge schemes and 18 nos of bore well recharge schemes.

The Department has also taken initiatives to implement roof top rainwater harvesting structures in order to replenish the aquifer system in Chittur (Over-Exploited), Malampuzha and Kasaragod (Critical) blocks under Jal Shakti Abhiyan Programme by Ministry of Jal Shakti Government of India.

XVIII. Demarcation of Floodplain and removal of illegal encroachment:

Kerala receives about 90% of the annual rainfall during the monsoon months from June to August and from October to November. The remaining period from December to May is practically dry. Most of the rain water received during monsoon period flows to sea within 48 hours of rainfall due to the character of the geographic terrain of the state.

- State Disaster Management plan 2016 was prepared by National Centre for Earth Science Studies in 1:50,000 scale using satellite images.
- Based on the request of central water commission, Government of Kerala constituted Regional Committee for scientific assessment of Flood prone areas in Kerala.
- Flood-level marking for the flood affected rivers has been carried out. Steps have been taken for conducting the studies regarding Flood plain Zoning. Due to the peculiar topography and dense population, evacuation of people from these zones is difficult.

Flood plain zoning is considered as an effective measure for flood management. As far as Kerala is concerned, the topography and total number of rivers, major lakes and other water bodies are entirely different compared to other states. Since Kerala has 44 rivers, except three rivers, all are west flowing; that is about every 14 km (average) there is a river. It may please be noted that the width of Kerala varying from roughly 30 to 120 km, and the total geographical area is 38863 km². Kerala is the 21st largest Indian state by area. As per census of 2011 the density of population per square kilometer is 859. By considering the above facts, implementation of zonation and demarcation of priority areas/non development zones will affect the populace of Kerala or leads to displacement from their ancestral settlement. This is why the Model Bill of 1975 issued by CWC has not been implemented in Kerala. However intensive contour may delineate and notification of limits of flood plains through LSGIs is a possible way out as far as Kerala is concerned to avoid future developmental activities in such area, for which a policy decision is necessary.

Desilting:- Flood havoc in 2018& 2019 very much affected the storage capacity of several regulators and check dams due to the accumulation of silt/ sand and other debris. In some cases, the proper functioning of the regulators become halted due to the accumulation of the above said materials.

Vide G.O (Rf) No.50/2019/WRD dt 08-11-2019 Government issued AS for desilting of 6 structures, namely Cheruthuruthy check dam; Changanamkunnu regulator; Manjummel regulator; Purappallikavu regulator; Velliyankallu regulator cum bridge; Pookkottumana regulator cum bridge

The work for desilting of 6 regulators/ check dams were tendered and the works are in different stages.

Along with irrigation structures action were taken to desilt the dams as a pilot project to enhance the storage capacity which results more outflows and ground water recharge. Mangalam dam, Chulliyar dam, Meenkara dam and Walayar dam are the four dams listed. Apart from the above Irrigation department has initiated action to prepare an inventory of the present status of all the rivers in Kerala by entrusting the job to Executive Engineers. The primary objective is to find out the obstructions to free flow in rivers. It is expected to complete the process within a month and draft reports/ status reports were also be ready. As a follow up, the department intends to desilt the river stretches which need urgent action to avoid flooding in the vicinity; by utilising the amount announced in the Budget.

Encroachments can be assessed after detailed survey with the help of Revenue Department. Executive Engineers entrusted with ownership of rivers have been directed to identify the encroachments along rivers and prepare a list at the earliest Public Grievance report form has been developed in department website.300 petitions were forwarded to the revenue officials for remedial action. 133 petitions also received since then are also forwarded to the concerned.

XIX. Maintaining minimum e-flow of river:

- As per order of the Hon'ble NGT Order in OA no.498/2015 it is mandatory to maintain 15%-20% of average lean season flow in the river. E-flow can be assessed in many ways. Hydrological methods and holistic methods are generally used for this purpose. A good Hydrological data is maintained at IDRB Chief Engineers office at

VikasBhavan. Steps have been initiated to collect last 25 years average flow details of all 44 rivers during summer season, ie from January to May.

- Ministry of Water resources, RD& Ganga Rejuvenation issued a notification (SO.5195 (E) dated 9.10.2018) to maintain e-flow in River Ganga. Hon'ble NGT order has given some relaxation to status , which are unable to adhere to the average percentage fixed as e-flow CE (I&A),&CE (IDRB) made discussion in this regard and action has been taken by IDRB to compile the last 25 years discharge of rivers. As per the report of Kerala State Disaster Management Authority (KSDMA) nearly 15% of the land area of the state prone to flood. On two (2) occasions, GOI (CWC) and Ministry of Environment Forest and climate change had circulated model bill on (i) Flood Plain Zoning (1975) (II) River Regulation Zone (2015). Considering the already enacted regulations vizi) Forest area ii) Coastal Regulation Zone (CRZ), the topography of the state, high population density , and number of rivers, Government has not yet taken a policy decision in this matter. The State Government has sent the apprehension of the State to GOI with regard to River Regulation Zone Bill.
- As per the direction of the Additional Chief Secretary (WRD), meetings were conducted with Chief Engineer, IDRB to discuss the availability of historical data. To carry forward the study of e-flow a training was arranged on 12.09.2021 to the engineers entrusted for e-flow calculation. A review meeting in this regard was also conducted on 01.10.2021 and in the meeting it was decided to calculate e-flow of the rivers, Meenachil and Manimala as pilot project. Data collection for Manimalariver completed. Data collection for Meenachil, Kadalundi, Karamana and Vamanapuram is in progress.
- It was decided in the last RRC meeting that an expert committee to be constituted to recalculate the e-flow. Accordingly an initial discussion of the technical committee has been convened and it has been decided to recalculate the e-flow for the rivers on the revised methodology. Secretary WRD directed (08/2023) to conduct a meeting with KSEB authorities, to collect required data for the e Flow calculation. Also details of dam, ground water, amount of water ejected out from hydro electric projects in various seasons are to be collected for the calculation of flow. For these, the Expert committee framed for vetting e Flow needs to be restructured to include representatives from

KSEB, Fisheries, Environmental Scientists, etc. Hence we have requested to the above departments to nominate suitable officials from their department /institution who have expertise in e-flow analysis/who can contribute to the same to be included in the Expert Committee. Follow-ups are going on. Based on the direction from the Administrative Department, an Expert committee was constituted for vetting the same. The first meeting of the committee is scheduled to be held on 10.01.2024. The present e flow calculation was done in line with the old methodology as per the direction of NGT. As per the existing NGT order the minimum E flow calculation required is 15-20. Since it is based on the flow of Himalayan fed rivers, the same method cannot be applied to Southern states which are monsoon fed. Hence a new methodology is required. An interdepartmental Expert Committee has been constituted for calculation of e-flow. 3 Meetings of the committee have been convened, and as per decision of the committee, Kuttiyadi river was selected as pilot project for arriving the new methodology for e flow calculation, and CWRDM is assigned with carrying out same.

- Fisheries data for Kuttiyadi river was obtained from the Fisheries Department and data collection regarding cross section of river from the Hydrographic survey wing is in progress. Reconnaissance survey for 14.6 Km has been conducted by Hydrographic survey wing and detailed estimate submitted to Head office for approval. The methodology for E flow calculation of Meenachil river was carried out by IDRB. The methodology in this regard is under review. The methodology was presented in the 4th meeting of the Expert committee 06.06.2024

XXII. Reuse of Treated Water:

Draft policy on treated waste water reuse is under preparation by Suchitwa Mission

XXIII. Model River being adopted by the State & Action proposed for achieving the bathing quality standards:

Tirur-Ponnani River, Malappuram

XXIV. Status of Preparation of Action Plan by the 13 Coastal States:

As per the NGT order in O.A 829/2019 dated 22.06.2020 regarding the remedial action to restore sea water quality along the Indian Coastal areas, the Hon'ble NGT ordered that "All States/UTs through their concerned departments such as Urban/Rural Development, Irrigation & Public Health, Local Bodies, Environment, etc. may ensure formulation and execution of plans for sewage treatment and utilization of treated sewage effluent with respect to each city, town and village, adhering to the timeline as directed by Hon'ble Supreme Court. STPs must meet the prescribed standards, including fecal coliform. CPCB may further continue efforts on compilation of River Basin-wise data. Action plans be firmed up with Budgets/Financial tie up." In compliance with the order, CPCB instructed that the State PCB shall associate National Centre for Coastal Research, Chennai under Ministry of Earth Science for monitoring and assessment of coastal water within the jurisdiction of the Kerala State up to 5 km from shore and to evolve strategies for protection of the coastal areas in association with Coastal Zone Management Authority in the State and Prepare time bound comprehensive action plan along with implementing agency in consultation with Kerala State Coastal Zone Management Authority for control of coastal pollution in Kerala State. Also the State Government has instructed the Board to prepare action plan by consulting CUSAT. Based on this, the Member Secretary of Kerala State Pollution Control Board has conducted meeting with officials of CUSAT, National Centre for Coastal Research, Kerala State Coastal Zone Management Authority and also with the field level officers through video conferencing. The Action plan was forwarded to CPCB. CPCB put forward some suggestions and requested to modify the action plan upon concurrence with River Rejuvenation Committee. So, the Coastal Action Plan prepared has been forwarded to the concerned Stakeholder Departments for their remarks. Meetings in this regard convened on 23.07.2021 and 02.08.2021. The modified Coastal Action Plan was approved by RRC and the same has been submitted before State Govt. for approval. The Coastal Action Plan was submitted to CPCB with the approval of State Govt. The Coastal Action Plan is being revised with projected population for the year 2024.

XXV. Regulation of Mining Activities in the State/UT:

Indian parliament has enacted the Mines & Minerals (Development & Regulation) Act, 1957 and it stipulates for the conservation, prudent and discriminate exploitation of minerals with a

view to secure maximum benefit to the community. In exercise of powers conferred by section 13 of Mines and Minerals (Development & Regulation) Act 1957, the Central Government has framed the Mineral concession Rules, 1960. The Central Government has also framed the Mineral Conservation and Development Rules, 1988 in exercise of the powers conferred by section 18 of the Act. These Rules are applicable to all minerals except coal, atomic minerals and minor minerals. The powers of framing rules for minor minerals have been delegated to the State under section 15 of the mines Act. In exercise of the powers conferred by section 15 (1) of the Act the State has framed the Kerala Minor Mineral Concession Rules 2015 and Kerala Minerals (Prevention of Illegal Mining, Storage and Transportation) Rules 2015 for the regulation and extraction of minor minerals. The Central Government in exercise of powers conferred by section 18 of the Act has also framed the Granite Conservation and Development Rules, 1999 for conservation & systematic development and scientific mining of the granite resources. The grant of reconnaissance permit, prospecting license or mining lease are governed by the central Act. The State with the prior approval of the Government of India grants permission for reconnaissance permit, prospecting license or mining lease for major minerals. The state Government issue quarrying permits and leases for minor Minerals based on the Kerala Minor Mineral Concession Rules, 2015. Other Acts and Rules which govern the mineral administration of India applicable to the State are the following:

- The Mines Act, 1952 (Act 35 to 1952)
- The Mines Rules, 1955 (35 of 1952)
- The Metalliferous Mines Regulations, 1961
- The Mines Rescue Rules, 1985
- Mines Vocational Training Rules, 1966
- Payment of wages (Mines Rules , 1966)
- Payment of undisbursed wages (mines rules, 1989)
- The Indian Explosive Act, 1884
- Air (Prevention & Control of Pollution) Act, 1981(14 of 1981)
- Environment (protection) Act, 1986 (29 of 1986)
- Indian Registration Act, 1908 (Central Act of Act 16 of 1908)
- Kerala Protection of River Banks and Regulation of Removal of Sand Act, 2001
- Kerala paddy field and wetland conservation Act, 2008.
- Kerala Panchayath Act.

There is no large scale mining activity in Kerala as in other parts of the country. Almost all the mines are open cast and limited in areal extent. The important mines of major minerals are china clay, laterite/bauxite, limestone and lime shell. Mineral sands and silica sand are excavated by scooping and quartz is being extracted by taking trenches and pits. The important minor minerals in the state are granite, building stones, dimension stone, laterite, tile/brick clay and ordinary sand. The state owns mineral deposits like placers, china clay (kaolin), limestone, silica sand, bauxite, graphite, iron ore, granite etc.

The major mineral based industries like Indian Rare Earths Ltd. (Chavara), Kerala Minerals and Metals Ltd. (Chavara), Malabar cements (Walayar), Travancore cements Ltd. (Kottayam), Kerala ceramics (Kundara) Travancore Titanium products Ltd. And English Indian Clays Ltd, Thiruvananthapuram, Excel Glass Industry, Alappuzha, KeralaClays and Ceramic Products Ltd. (Pazhayangadi) are some of the mineral based industries working in the State since several years. A number of tile based industries are also functioning mainly in Thrissur and Kozhikode districts.

In exercise of the powers conferred by section 15(1) of the Mines and Mineral (Development & Regulation) Act, 1957, the State has framed the Kerala Minor Mineral Concession Rules 1967 for regulating the extraction of minor minerals. The State with prior approval of the Govt. of India grants permission for reconnaissance permit, prospecting license or mining lease for the first schedule minerals on first cum first served basis. In addition to EIA requirements as stipulated by the Central Govt, an EIA report is insisted on all mining activities before granting mining lease. No quarrying permits or leases are granted in the State unless there is a Mining plan duly approved by the competent authority. Afforestation of the reclaimed areas is promoted. Environment Rehabilitation is insisted in all mining projects.

The Kerala District Mineral Foundation Rules 2018 has been formed with an objective to work for the interest and benefit of persons and area affected by mining related operations. The permissible activities under District Mineral Foundation includes among other things, developing sources of irrigation, development alternate sources of energy and rain water harvesting, conservation measures of biodiversity of the affected areas.

The expert study in all selected quarries in Kerala was carried out with one day for ambient air quality measurement (without the operation of quarry) and next day with the

operation of the quarry. Individual site reports with the observations on dust, noise and mine pit water quality was prepared by the monitoring team of KSPCB for all the nine quarry sites.

XXVI. Action taken status with regard to directions issued for prohibition of immersion of idols, puja materials and other items of religious offerings in rivers & other water bodies in particular during the occasion of festivals

- Regarding the Ganesh Utsav celebration and immersion of idols, it may kindly be noted this is not widely practiced in the State of Kerala. The Board had instructed the District offices to conduct monitoring of water bodies where immersion of idols is practiced on a large scale. Water quality was carried out in three stages-pre immersion, during immersion & post immersion periods. A press release was also issued by the Board in connection with the festival for information of the public on the guidelines for immersion, issued by CPCB. In Kerala idol immersion are not celebrated as a major festival. The Govt. take steps to avoid water pollution due to immersion of idols. If to celebrate natural clay and colours are being used and that too in artificial ponds arranged by local authorities
- During Sabarimala festival season, there is a traditional celebration “ Pettathullal”, for the same the pilgrims will apply coloured Kumkum on their body. It was directed that only natural colours shall be used for the celebration. Separate arrangement like shower bath are provided for carrying out bath after the celebration, in order to avoid the reach of coloured water into the main waterbody. The waste water from the shower bath location will be treated in ETP provided.

XXVII. Current status of water quality of rivers based on draft revised categorisation of CPCB

- Out of 21 stretches, the following 11 stretches delisted from PRS. Mogral- at Kasaragod, Kuppam, Peruvamba, Ramapuram, Kavvayi- at Kannur, Bharathapuzha, Bhavani- at Palakkad, Kutiyadi-Kozhikode, Kecheri, Karuvannur, Puzhakkal- at Thrissur
- Due to improvement in water quality priority class of the following 4 rivers has been shifted to lower priority class. No priority I and II rivers in Kerala now.

Karamana, at Thiruvananthapuram- Priority III (from Priority-I)

Manimala at Alappuzha – Priority V (from Priority IV)

Pamba at Pathanamthitta – Priority V (from Priority IV)

Kadambrayar at Ernakulam –Priority V (from PriorityIV)

- As per the report of CPCB on “Polluted River Stretches for Restoration of Water Quality, 2025”, a total of 32 polluted river stretches/locations (polluted River stretches (14 nos)/ locations (18 nos)) have been identified in the State of Kerala. (Priority III - 2 river stretches/ locations; Priority IV - 4 river stretches/ location & Priority V - 26 river stretches/ locations)



MEMBER SECRETARY

		KARAMANA						
Short termplan								
Maintenance and de-bottlenecking of existing seweragenetwork								
No.	Activity	Implementing agency	Time line	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
2.1.1	Pumping lines from the terminal pumping stations namely Kuriyathi, Pattoor, Kannammoola and Enchakkal pumping stations are to be connected directly to STP at Muttathara	Kerala Water Authority	May 2019	Completed	Completed	completed	100	AS not obtained for the pumping main from Pattoor, Kannammoola & Enchakkal
	Kuriyathi pumping line	Kerala Water Authority		Completed	Completed	completed	100	Work Completed.
2.1.2	Rehabilitation/upgradation of Thaliyal and Aranoor Sewerage Pump house by rehabilitation of existing well, construction of new well and grit chamber, installation of new pump sets	Kerala Water Authority	May 2020	Completed	Completed	completed	100	Work Completed.
2.1.3	5 MLD sewage treatment plant at Medical College	Kerala Water Authority	May 2020	Completed	Completed	completed	100	Work Completed.
2.1.4	Installation of adequate pumps in Mudavanmughal and Enchakkal pumping stations	Kerala Water Authority	March 2020	Completed	Completed	completed	100	Work Completed.
2.1.5	DG sets in all lift and pumping stations – Mudavanmughal, Aranoor, Thaliyal, Kuriyathi, Pattoor, Kannammola, Pattom, Murinjapalam and Enchakkal	Kerala Water Authority	May 2020	Completed	Completed	completed	100	Work Completed.
2.1.6	Reconnect sewer at Rajaji Nagar, stop outflow of sewage into Amayizhanchan thodu, control storm water entry into sewer to avoid overflow in Thampanoor area Sewage generated in Rajaji Nagar shall be diverted to main sewer line Sewage generated in Thoppil area shall be diverted main sewer line	Kerala Water Authority	Dec 2020	Completed	Completed	completed	100	Work Completed.
2.1.7	Discharge of sewage in Parayil kadavu shall be stopped as there is overflow of sewage reaches in houses having sewerage connection and this may lead to discharge of sewage into River Karamana	Kerala Water Authority	Completed	Completed	Completed	completed	100	Work Completed.
2.1.8	Divert the sewer line from the School compound of Government Karamana High School	Kerala Water Authority	Awarded	Completed	Completed	completed	100	Work Completed.
2.1.9	Rehabilitation by laying new lines increasing size of undersized main and reconstruction by dilapidated manholes for the last 3 years	Kerala Water Authority	May 2020	Completed	Completed	completed	100%	Works completed - 75 No (Rs. 15.41 cr) AMRUT - 44, State Plan - 28 MLA ADF/SDF - Completed
	Total works in progress (76No.) Works in tendering (2No.)						Dropped – 2 No. (Rs. 1.52cr.) State plan-2	2 works dropped due to not getting offers on repeated tenders & Expiry of AS. Later it placed for AS in State Plan & Completed
2.1.10	Extension of sewer network wherever technically feasible in new areas of existing blocks	Kerala Water Authority	May 2020					Works completed - 24 No (Rs. 17.21 cr) AMRUT- 12, State Plan- 11 Nos, 4 Nos ongoing MLA ADF/SDF-1

		KARAMANA						
Short termplan								
Maintenance and de-bottlenecking of existing seweragenetwork								
No.	Activity	Implementing agency	Time line	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
	Tendering/ To be arranged (1No.) Land acquisition -1 In progress-3						99.5 Land aquisition in progress - 1 No	Land acquisition process for all 4 works completed and land handed over to KWA and LA for the work of laying sewer trunk main from Murinjapalam towards Kannammoola - Joint site inspection of the site by KWA officers and LA Tahsildar were conducted on 27.02.24 for assessing the land value. LA 11(1) LA in progress Final stage. Revised AS obtained in state plan 2021-22, - 2.36 Cr demanded. Remittance of 2.36cr completed in 3 phase. Balance AS amount for Rs.49.68Lakhs as per the revised demand from Spl. TahsildarAdministrative Sanction is obtained for this vide proceedings no. KWA-JB/4401/2024-AE1 PIU1 KWA-Part (2) dated 22.02.2025. Action is being taken to settle the matter. And land handed over to KWA . AS obtained for arranging the work under State Plan 22-23 and one work arranged and one tendered.This tendered work re-casted and placed under State Plan 2022-23, AS received and tendered. Agreement Executed and pipe supplied and work in progress -50% completed. Killi River Crossing permission obtained. River crossing pipe laying delayed due to rain and restarted the same on 29.01.2025. Work 58% completed. Four pile caps under construction. Work will be completed within 60 days. Box culvert work 100%completed. For another work 26% completed. No further progress in the work by the contractor after March 2024. The contractor steps back from contract. Recommended to terminate the work and arrange the work at risk and cost. But, now the contractor restarted the work and trial HDD done. Work will be completed within 30 days.
2.1.11	Procurement of sewercleaning machines and equipment maintenance	Kerala Water Authority	Mar2020			completed	100	work completed
Solid Waste Management ActionPlan								
SL.No	Activity	Implementing Agency	Unit	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining

		KARAMANA						
Short termplan								
Maintenance and de-bottlenecking of existing seweragenetwork								
No.	Activity	Implementing agency	Time line	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
2.2.1	Slaughter house and poultry waste	Thiruvananthapuram Corporation	Rendering plant	Slaughterhouse Kunnukuzhy- inagurated on 30/08/2025. Poultry waste- TMC has started collecting poultry waste coming under the jurisdiction of 25 HI Office from 1st November 2019 with online tracking of vehicles. The entire poultry waste generated in the Corporation area is collected and sent to the rendering plant at Elloor.	Slaughterhouse Kunnukuzhy- inagurated on 30/08/2025. Poultry waste- TMC has started collecting poultry waste coming under the jurisdiction of 25 HI Office from 1st November 2019 with online tracking of vehicles. The entire poultry waste generated in the Corporation area is collected and sent to the rendering plant at Elloor.		97	Slaughterhouse Kunnukuzhy- inagurated on 30/08/2025. Poultry waste- TMC has started collecting poultry waste coming under the jurisdiction of 25 HI Office from 1st November 2019 with online tracking of vehicles. The entire poultry waste generated in the Corporation area is collected and sent to the rendering plant at Elloor.
2.2.2	Sanitation facility and treat of waste water in the markets of Pangode, Kumarichanda		Treatment plant (2 Nos) Portable aerobic bins (4 Nos)	New project, Approved by DPC Project no - 1835/26			100	New project, Approved by DPC Project no - 1835/26
2.2.3	Provide facility for the treatment of sewage, sullage and garbage generated in the Poonthura slum area between Karamana river and sea	Thiruvananthapuram Corporation	Aero bins at various places(28) Proposed sites 1. Moonnathumukku – Purampoku 2. Poonthura – HI Office 3. Cheriyanmuttam – Poonthura 4. Beemapally Compound 5. TsunamiColony 6. Mother Theresa Colony 7. KumariChantha 8. PoonthuraMarket 9. Moonnattumukku	KWA has prepared DPR of sewer line to Poonthura Manikkavilakam Bheemapalli East and Thiruvallam area for an amount of Rs 88 Crs, AS not yet received.			50	Only 13 Locations work completed out of 28 Nos. This area will be covered in the master plan for providing sewer line for the full capacity utilization of CSTP at Muttathara and by providing Decentralized STP where there is land availability- KWA

		KARAMANA						
Short termplan								
Maintenance and de-bottlenecking of existing seweragenetwork								
No.	Activity	Implementing agency	Time line	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
2.2.4	The discharge of waste water from the surrounding houses to the pond at Jagathy is to be stopped	Thiruvananthapuram Corporation	Pond de-silting Issued notices to thehousehold Project is prepared for de-silting the pond	Corporation has to take a solution for this, as this area is at low level and it is not possible to connect this to existing sewer network.				
2.2.5	Around 155 Houses in Kurukuvilak om, Kannettumukku shall be provided with septic and treatment system	Thiruvananthapuram Corporation					Dropped. When the full capacity utilization of CSTP at Muttathara shall be ensured, this area will be covered as it is situated along the banks of Karamana – Killiyar River - KWA.	-
2.2.5	Identification of illegal outlets into storm water drains and fine shall be imposed on such units	Thiruvananthapuram Corporation	Fine imposed and prosecution initiated				2829440 lakhs fine collected from 2019 to till date (Dec 2025)	854570 fine collected from April 2024 to till date (Dec 2025)
2.2.6			Bio-Composter (No. 50,000)				Installed 51,557 bins in total. Tender invited for installation of 50000 bio compost bins. Proposal approved by the health standing committee. Proposal placed in the health standing committee and forwarded to purchase committee for negotiation done, placed before council. Out of which 24657 bins were distributed	82. Installed 76214 bins in total.

		KARAMANA						
Short termplan								
Maintenance and de-bottlenecking of existing seweragenetwork								
No.	Activity	Implementing agency	Time line	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
2.2.7	Biodegradable waste	Thiruvananthapuram Corporation	Thumboormuzhi aerobic bins (No 154)				Total 154 locations Completed works (Total - 159 units) Santhikavadam - 3 units, Manathala - 3 units, ITI chackai – 11 bins Kalladimukham – 32 bins Neerazhi Market, Ulloor – 6 bins Thumba station kadavu – 4 units Womens college – 4 bins completed will be handovered soon. Sanskrithi College – 5 bins Near Peroorkada Market-35 Kamaleshwaram, Karamana PRS opposite, Cotton hill LPS ,Cotton hill HSS-25 Poojapura-10 Inside Pratheeksha flat- 16 Manvila Market-5 Work in progress Kuravankonam – 4 bins	Total 563 bins installed in 62 location.
2.2.8			Community biogas (No. 12)	Out of total 20 nos under maintenance ,9 have been completed			Total 13 locations – Institutional Level. Work completed – 6 locations - Vanitha jail and Central jail, Poojapura - 100kg/day, Govt L P S, Kanjirampara - 100kg/day and Womens College, Vazhuthacaud - 500kg/day. Work at Law collage, Palayam - 500 Kg/day, University campus, Palayam - 500Kg/day and Govt. High school, Kulathoor – 100Kg/day. Ongoing Works are : Mental Hospital, Oolampara – 500 kg/day, General Hospital – 500 kg/day, DPI, Jagathy – 100 kg/day.Govt Panchakarma Hospital - 100 kg/day Remaining 2 sites will start soon.	27 nos installed, Only 2 in working condition
2.2.9			Organic Waste Converter (No. 1)	Dropped			Dropped	Dropped

		KARAMANA						
Short termplan								
Maintenance and de-bottlenecking of existing seweragenetwork								
No.	Activity	Implementing agency	Time line	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
2.2.10			Portable biogas (No. 200)	Dropped			Dropped	Dropped
2.2.11			Portable aero bins (No.100)				28 more units installed. Total 125 units installed - project completed	Project completed
2.2.12			Ring compost (No. 500)				Project implementation started. Installed 350 units. Rest of the bins will be installed soon. Action on going	Installed 350 units
2.2.13			Segregation bins (No. 1,00,000)				Dropped	Dropped.
2.2.14			RRF (No. 7)				Total 2 locations. (i)Work in Manacaud site completed. Tendering activities for electrification are in progress. (ii)Kalladimugam RRF work completed. The operation will start soon.	Work completed
2.2.15			Plastic Recycling unit (No. 1)	Site not yet identified. Project dropped			Site not yet identified. Project dropped	Site not yet identified. Project dropped
2.2.16			Mobile MRF (No. 5)	Dropped			Project dropped	Dropped
2.2.17			Electronic Weigh bridge (No. 1)	Dropped			Project dropped	Dropped
2.2.18			Solar electrical cart (No. 25)				Work completed.	Work completed
2.2.19			Swaps shops (No. 4)				Work completed. Revised estimate approved by council.	Work completed. Revised estimate approved by council. Final part bill will be issued soon
2.2.20			PET bottle crushing (No. 15)	Dropped			Project dropped	Project dropped
2.2.21			Community level unit Napkin destroyer (No. 102)				During Trail run the unit is found to be incompetent 158 Nos purchased and installed at various locations	158 Nos purchased and installed at various locations
2.2.22		Thiruvananthapuram Corporation	Animal Crematorium at Kattela	Dropped			Project dropped	Project dropped
2.2.23		Thiruvananthapuram Corporation	Urban Gardening	Dropped			Project dropped	Project dropped
2.2.24		Thiruvananthapuram Corporation	Upgradation of present facilities				Completed.	Completed
2.2.25		Thiruvananthapuram Corporation	Capacity Building & IEC				A training programme was conducted for HI/JHI on 2023 September 23,24 and 2024 January 22,23,24,25	A training programme was conducted for HI/JHI on 2024 January 22,23,24,25 &2024 September 23,24 .
2.2.26		Thiruvananthapuram Corporation	Viability gap Fund				Issue of Seventh phase of VGF to Haritha Karma Sena completed	Nil

		KARAMANA						
Short termplan								
Maintenance and de-bottlenecking of existing seweragenetwork								
No.	Activity	Implementing agency	Time line	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
2.2.27	Prevent entry of storm water into sewer line along with KWA	Thiruvananthapuram Corporation	KWA is authorized to prepare and implement proper sewerage lines under Amrut scheme				Close monitoring is done by health Squad and all Health Inspectors are directed to issue notice and prosecution.	Close monitoring is done by health Squad.
2.2.28	Take steps to prevent the solid wastes in sewer line as reported by KWA	Thiruvananthapuram Corporation	Squad andFines Special squad is formed at Corporation level. Health Inspectors are authorized for regularly monitoring and preventing the wastedischarge	Corporation collected an amount of Rs.8368922/-- as fine from April 2024 to October 2025			Employees were placed at various spots during night to prevent dumping of solid waste in drains and fines are being charged. Regarding to waste throwing to public places Corproation collected an amount of Rs.9089569/- as fine from April 2024 to November 2025	Employees were placed at various spots during night to prevent dumping of solid waste in drains and fines are being charged. Regarding to waste throwing to public places Corproation collected an amount of Rs.9581699/- as fine from April 2024 to December 2025
Monitoring								
	Activity	Implementing agency	Time line	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
2.3.1	River water quality monitoring - Killiyar, Karamana, Parvathiputhanar, Akkulam-Veli lake	Kerala State Pollution Control Board	Ongoing; monthly					1 Establishment of real time water quality monitoring station is going to install in Karamana river 2 Work order has been issued to acess nano technology private Ltd.
2.3.2	Storm drains monitoring - Amayizhanchan thodu, Ulloorthodu, Pattom thodu, Kannamoola thodu, Thekkanakkara canal	Kerala State Pollution Control Board	Ongoing Seasonal monitoring – pre- monsoon, monsoon, post-monsoon					Monitoring going on
2.3.3	Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc in Thiruvananthapuram Corporation area	Kerala State Pollution Control Board	Ongoing Interval: Red – 1 month. Orange – 3 m. Green – 6 m.					continuous process
2. Long termPlan								
Seweragenetwork								
	Long term measures proposed	Implementing agency	Amount Required (Rs. in Crore)	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
3.1.1	Extension of sewerage system to Block F to G coastal belt	Kerala Water Authority	200					Consultant appointed for preparing Detailed Project Report for uncovered wards of the Thiruvananthapuram Corporation and Rehabilitation of existing system was terminated from the contract due to breach of contract by the firm vide Proceedings No.KWA/SE/SEW/EOI/REPL/338/2020-2021 of theSuperintending Engineer,Sewerage Circle, KeralaWater AuthorityThiruvananthapuram dated 31.05.2022 to arrange the balance work at their risk and cost. As directed in the Chief Secretary, GoK's meeting dated 21/06/2022 to
3.1.2	Extension of sewerage system to Block H to R	Kerala Water Authority	700					
3.1.3	Extension of sewerage system to Newly added areas of corporation viz,	Kerala Water Authority	300					
3.1.4	Providing sewerage system in Block A to E	Kerala Water Authority	100					
3.1.5	Rehabilitation of existing Network and pump house in block A toE	Kerala Water Authority	100					
3.1.6	Procurements of equipments for maintenance seweragesystem	Kerala Water Authority	10					

		KARAMANA						
Short termplan								
Maintenance and de-bottlenecking of existing seweragenetwork								
No.	Activity	Implementing agency	Time line	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
3.1.7	Additional STP requirement	Kerala Water Authority	60					do the Preparation of DPRs internally, action taken accordingly. Meanwhile the terminated firm M/s REPL filed a complaint against KWA in the Hon'ble High court of Kerala (WP(C) No 26031 of the year 2022) and obtained a stay against KWA at first up to 22.08.22 which is then got extended up to 14.09.22 against taking any coercive actions. DPR preparation of sewerage system to the uncovered areas of TMC is now being carried out internally by KWA. The total wards were divided in to 10 clusters. Cluster 1 comprises of 5 wards Attukal, Kalady, Kallipankulam, Ambalathara and kamaleswaram wards – The DPR for 3.1.7 Additional STP requirementCluster 1 was submitted on 13/10/2022 for AS.Later as per the direction of Secretary Thiruvananthapuram Corporation the DPR for Cluster 1 was revised including Zone 1&5 for Rs.91.00Cr and Zone 3&4 for Rs.66.50Cr and was submitted to Corporation on 28.12.2023 for getting AS under UIDF. AS received for thesetwo works and workstendered. As the two bidders who quoted for the Tender of Cluster 1 (ZONE-III Kalady Part) &(ZONE-IV AttukalPart) was disqualified, the tender was cancelled and action is being taken to retender the work. In case of Cluster zone I&V also the two bidders who quoted the tender were disqualified and action is being taken to recast the estimate of these two UIDF works.Cluster 3, which was originally consisting of Thiruvallam, Poonkulam and Vellar is the second in the priority list and was taken up. This Cluster is then modified by adding more wards and is divided into 3 zones. Zone 1 of cluster 3 is consisting of Puthenpally and Part of Muttathara (until STP) was taken up on priority based on the demand of Thiruvananthapuram Corporation. DPR of Cluster 3 Zone 1, Puthanpalli ward for 1.5 MLD confirmation of land not yet received. DPR of cluster X comprising of wards Shangumugham,Vettucaud, Vallakadavu,Beemapalli (part),Beemapalli East (part),Valiyathura and Kadakampally is under preparation. DPR for Cluster 3 Zone1&3 revised and is under scrutiny for submitting the same to Corporation for getting AS under UIDF.Sewerage network with 5 year O&M and
3.1.8	Total Amount required	Kerala Water Authority	5000CR					

		KARAMANA						
Short termplan								
Maintenance and de-bottlenecking of existing seweragenetwork								
No.	Activity	Implementing agency	Time line	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
Solid wastema nagemen t								
	Long term measures proposed by Thiruvananthapuram Corporation	Implementing agency	Time line	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
3.2.1	Acquire 58 acres of land and rehabilitate 8150 families from the banks ofRiver	Thiruvananthapuram Corporation	5 years	Project Dropped			Project Dropped	Dropped
De-siltin g and develop ment								
No.	Activity	Implementing agency	Timeline	Progress in the month of November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
3.3.1	Development package for Parvathy Puthanar	Irrigation department Included in KIFB by KWIL includes cleaning of canal	3 years					Phase I (First half) removal of water hyacinth completed Veli to Kadinamkulam Kayal (Ch 16.00 to Ch27.00).Executed by Inland Navigation . Aakkulam to Monnattumukku cleaning works 100% completed- by KWIL - for an amount of 45 Lakhs (3 Months) Now department work is started for clearing.
3.3.2	De-silting and development of Amayizhanchan Thodu	Irrigation Department	1.5 years				100	On going
3.3.3	Improvements to Thekkenekara canal and de-silting-	Irrigation Department	1 year				20	Flood mitigation work completed
3.3.4	Karimadam tank improvements, de-silting sheet piling/under preparation and providing fencing	Irrigation Department	1.5 years	20% completed but work presently held up due to non availability of land for disposal of desilted earth having foul smell. Now the contractor has requested to foreclose the work.			20% completed but work presently held up due to non availability of land for disposal of desilted earth having foul smell. Now the contractor has requested to foreclose the work.	20% completed but work presently held up due to non availability of land for disposal of desilted earth having foul smell. Now the contractor has requested to foreclose the work.
3.3.5	Development of Karamana basin	Irrigation Department	1.5 years					Desiltation of river completed. E-flow statement is submitted

STATE WATER QUALITY MONITORING PROGRAMME (SWMP) 2025							
Analysis Report for the month of December- 2025							
Name of River		KARAMANA					
Date and Time of Sample collection		06-12-2025					
Method of analysis							
Sl no.	Parameters	SAMPLE ID					
		Peppara	Aruvikkara	Mangattukadavu	Pallathukadavu	Thiruvallom	Moonnattumukku
1	Temperature (°C)	29	30	29	29.5	29.4	30
2	Dissolved O ₂ (mg/L)	7.5	7.3	5.9	4.8	5.3	0.2 (BDL)
3	pH	6.7	6.6	6.6	6.7	6.7	7
4	Conductivity (µmho/Cm)	39	79	111	197	133	667
5	BOD (mg/L)	0.3 (BDL)	0.7 (BDL)	0.6 (BDL)	0.7 (BDL)	1.2	6.9
6	Nitrate - N (mg/L)	0.0 (BDL)	0.4	1.5	2.4	3	7.9
7	Turbidity (NTU)	1 (BDL)	1 (BDL)	1.1	1 (BDL)	1.4	4.1
8	Total Alkalinity (mg/L)	8 (BDL)	12 (BDL)	28	40	32	120
9	Chlorides (mg/L)	8	20	16	32	22	116
10	Ammonical N (mg/L)	0.0 (BDL)	0.0 (BDL)	0.1 (BDL)	0.0 (BDL)	0.2 (BDL)	5.1
11	Total Hardness (mg/L)	6 (BDL)	16	20	40	28	104
12	Ca as CaCO ₃ (mg/L)	4 (BDL)	8	16	24	24	64
13	Mg as CaCO ₃ (mg/L)	2 (BDL)	8	4 (BDL)	16	4 (BDL)	40
14	Sulphate (mg/L)	1.3 (BDL)	2.1 (BDL)	2.9 (BDL)	4.2 (BDL)	4.6 (BDL)	19.1
15	Sodium (mg/L)	5.3	10.6	10.9	20.2	12.8	64.2
16	Measured TDS (mg/L)	25	52.8	71.2	117	89	375
17	Total Phosphate (mg/L)	0.0009 (BDL)	0.0421 (BDL)	0.033 (BDL)	0.0027 (BDL)	0.0018 (BDL)	0.3508
18	Boron (mg/L)	0.00 (BDL)	0.00 (BDL)	0.01 (BDL)	0.01 (BDL)	0.02 (BDL)	0.50 (BDL)
19	Potassium (mg/L)	2.2	3.5	5.2	6.8	4.7	18.6
20	Total Coliform (MPN/100ml)	220	460	920	560	1100	17000
21	Fecal Coliform (MPN/100ml)	47	120	410	210	830	9300
22	SAR	0.96	1.15	1.05	1.39	1.05	2.74


 ASSISTANT ENVIRONMENTAL SCIENTIST

ANALYSIS REPORT OF RIVERS INCLUDED IN THE LIST OF PRS-2022 FOR THE MONTH OF DECEMBER 2025								
SL NO	PARAMETER	RIVER-NEYYAR		RIVER- KARAMANA		RIVER- MAMOM	RIVER- AYIROOR	RIVER- VAMANAPURAM
		Amaravila	Aruvippuram	Aruvikkara	Moonnattumukku	Mamom	Ayiroor	Vamanapuram
1	Temperature, 0°C	28.5	30	30	30	29.5	29	29.5
2	Dissolved Oxygen, mg/l	6.7	7	7.3	0.2 (BDL)	7.3	6.8	7.5
3	pH	6.7	7	6.6	7	6.6	7.4	6.8
4	Conductivity, µmhos/cm	71	93	79	667	133	127	70
5	BOD, mg/l	0.3 (BDL)	0.9 (BDL)	0.7 (BDL)	6.9	0.3 (BDL)	0.6 (BDL)	0.8 (BDL)
	Nitrate-N, mg/l	2.7	2.9	0.4	7.9	3.4	3	1.6
7	Turbidity, NTU	1 (BDL)	1 (BDL)	1 (BDL)	4.1	1 (BDL)	1.2	1.2
8	Phenolphthalein Alkalinity, mg/l	0 (BDL)	0 (BDL)	0 (BDL)	0 (BDL)	0 (BDL)	0 (BDL)	0 (BDL)
9	Total Alkalinity, mg/l	16 (BDL)	24	12 (BDL)	120	28	28	16 (BDL)
10	Chloride, mg/l	14	16	20	116	24	28	16
11	COD, mg/l	4 (BDL)	4 (BDL)	4.2 (BDL)	48	4 (BDL)	5.2	4.8 (BDL)
12	TKN, mg/l	0.6 (BDL)	1.1 (BDL)	0.34 (BDL)	15.2	1.1 (BDL)	1.8	1.4 (BDL)
13	Ammoniacal-N, mg/l	0.0 (BDL)	0.0 (BDL)	0.0 (BDL)	5.1	0.0 (BDL)	0.0 (BDL)	0.0 (BDL)
14	Hardness as CaCO ₃ , mg/l	16	20	16	104	32	28	16
15	Calcium as CaCO ₃ , mg/l	12	12	8	64	16	20	8
16	Magnesium as CaCO ₃ , mg/l	4 (BDL)	8	8	40	16	8	8
17	Sulphate, mg/l	1.9 (BDL)	3 (BDL)	2.1 (BDL)	19.1	4.9 (BDL)	6.7	1.5 (BDL)
18	Calcium (Ca ²⁺), mg/l	4.81	4.81	3.21	25.65	6.41	8.02	3.21
19	Magnesium (Mg ²⁺), mg/l	0.972	1.944	1.944	9.72	3.888	1.944	1.944
20	Sodium, mg/l	8.8	10.2	10.6	64.2	14.5	18.5	8.5
21	Total Dissolved Solids, mg/l	57	68	52.8	375	99	101.3	51.2
22	Total Fixed Solids, mg/l	32	39	25	195	43	54	32
23	Total Suspended Solids, mg/l	10 (BDL)	8 (BDL)	10 (BDL)	117	17	22	17
24	Phosphate, mg/l	0.0229 (BDL)	0.0156 (BDL)	0.0421 (BDL)	0.3508	0.01920 (BDL)	0.0211 (BDL)	0.0321 (BDL)
25	Boron, mg/l	0.00 (BDL)	0.00 (BDL)	0.00 (BDL)	0.50 (BDL)	0.00 (BDL)	0.00 (BDL)	0.00 (BDL)
26	Potassium, mg/l	4.2	4.8	3.5	18.6	6.6	6.3	3.3
27	Fluoride, mg/l	0.01 (BDL)	0.00 (BDL)	0.01 (BDL)	0.32	0.01 (BDL)	0.01 (BDL)	0.01 (BDL)
28	Total Coliform, MPN/100 ml	920	610	460	17000	680	1200	1200
29	Fecal Coliform, MPN/100 ml	370	200	120	9300	250	610	450
30	Fecal Streptococcus, MPN/100 ml	0 (BDL)	0 (BDL)	0 (BDL)	17	0 (BDL)	0 (BDL)	2
31	% SODIUM	47.2	45.9	53	52.2	43.8	52.7	47.8
32	SAR	0.96	0.99	1.15	2.74	1.11	1.52	0.92

		PAMBA					
	Activity	Implementing agency	Progress in the month of OCTOBER 2025	Progress in the month of November 2025	Progress in the month of December 2025	% works completed	Details of works remaining
A(a)	No industries						
A(a)	Monitornrg of river water quality	Kerala State Pollution Control Board					
C(ii)	Establishment of de-centralized solid waste treatment facility	Mannar Panchayat	No new project taken	No new project taken	No new project taken	NA	NA
		Niranam Panchayath	No new project taken	No new project taken. Niranam Gramapanchayath is an upper kuttanad area, so no such dry land suitable for solid waste treatment plant is avilable	No new project taken	NA	NA
		Kadapra Panchayath	No new project taken. The Panchayat has resloved by identifying all sources invloved in the pollution of river and iniatiate to fine against them	No new project taken. The panchayath has resolved to identify all polluting involved in pollution of river resources and iniation of penal against them	No new project taken	NA	NA
C	Establishment of Material Collection Facility	Mannar Panchayat	Civil work completed. Floor completed	Civil work completed.	Civil work and electrification completed.	90%	ELECTRIFICATION
		Niranam Panchayath	MDF construction completed. 13 mini MCF implemented in all wards.	MDF construction completed. 13 mini MCF implemented in all wards.	Civil work and electrification completed.	NA	NA

		Kadapra Panchayath	Material Collection Facility is fully functional in Kadapra Grama Panchayath	Material Collection Facility is fully functional in Kadapra Grama Panchayat	Civil work and electrification completed.	100%	
C	Resource Recovery Facility	Mannar Panchayat	NO RRF IN PANCHAYATH	NO RRF IN PANCHAYATH	NO RRF IN PANCHAYATH	NO RRF IN PANCHAYATH	NO RRF IN PANCHAYATH
		Niranam Panchayath	NO RRF IN PANCHAYATH	NO RRF IN PANCHAYATH. Necessary instructions are given to all offices and institutions to strictly comply with the green protocol and is regularly monitored.	NO RRF IN PANCHAYATH	NA	NA
		Kadapra Panchayath	Resource Recovery Facility due to non availability of space. NO RRF IN PANCHAYATH	NO RRF IN PANCHAYATH. Resource Recovery Facility due to non-availability of space.	NO RRF IN PANCHAYATH	Resource Recovery Facility due to non availability of space. NO RRF IN PANCHAYATH	
C	Installing household and community level solid waste management units	Mannar Panchayat	Plastic waste and E waste Collection	Plastic waste and E waste Collection	Plastic waste and glass waste collected in December	100%	0%
C	Door to door collection and transportation of municipal solid waste	Mannar Panchayat	User feec ollection 76.94%	User feec ollection 76.94%	User feec ollection 75.55%	77%	23%
C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Parumala Town	Kadapra Panchayat	The Panchayat considered that sewage treatment plants currently not need with in Panchayat area around Parumala	The Panchayath considered that sewage treatment plants are currently not need with in Panchayath area around Parumala.			

C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Mannar Town	Mannar Panchayat	Projects has to be taken. All house hold toilets have individual septic tank and no outlets to pamba river	Project has to be taken	Project has to be taken	All house hold toilets have individual septic tank and no outlets to pamba river	All house hold toilets have individual septic tank and no outlets to pamba river
C	Construction of compound wall with fencing	Irrigation department	Fencing work completed,compound wall work estimate submitted for fund allotment	Fund to be allotted for the purpose.	Fencing work completed,compound wall work estimate submitted for fund allotment	Fencing work completed,compound wall work estimate submitted for fund allotment	
C	Removing light jungle and muddies from river courses	Irrigation department	Work ongoing	Fund to be allotted for the purpose.	Work ongoing	2%	
C	Electrical-Light arrangements and Surveillance cameras	Irrigation department	Fund to be allotted for the proposal	Fund to be allotted for the purpose.	Fund to be allotted for the proposal	NA	
C	Regualting activites in flood plain zone, protection and management of flood plain zone	Irrigation department	Fund to be allotted for the proposal	Fund to be allotted for the purpose.	Fund to be allotted for the proposal		
	Greenery developmentPlantation plan. Plantation on both sides of the river, setting up biodiversity parks on flood plains by removing encroachment	Irrigation department	Fund to be allotted for the proposal	Fund to be allotted for the purpose.	Fund to be allotted for the proposal		
C (b) (ii)	Green Protocol implementation in all Offices institution & Public function	Mannar Panchayat	100% Green protocol has implemented in in public offices.	100% Green protocol has implemented in in public offices.	100%		
		Niranam Panchayath	100% . All public offices are completely following green protocol	100%. Green protocol has implemented in public officers Kadapra Grama Panchayat	100%		
		Kadapra Panchayath	Green protocol implemented in all offices and public function	Green protocol implemented in all offices and public function	100%	100%	

D(a)	Issues relating to E-flow, maintaining minimum environmental flow of river (by having watershed management provisions)	Irrigation department	Study conducted and DPR submitted to CE'S office	Study conducted and DPR submitted to CE'S office	Study conducted and DPR submitted to CE'S office		
D (b)	Irrigation practices	Irrigation department		Routine procedures are following to avoid river pollution			
E	Awareness programmes for sections of public	Kerala State Pollution Control Board					
C	Management of municipal, plastic, hazardous, biomedical and electrical waste	LSGD	Plastic waste & E-waste are collected by Harithakarmasena	Plastic waste & E-waste are collected by Harithakarmasena	Plastic waste & E-waste are collected by Harithakarmasena		Plastic is collected by harithakarmasena every month & e-waste once in a year.
ACTION BY GROUND WATER DEPARTMENT							
Sl. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Progress in the month of OCTOBER 2025	Progress in the month of November 2025	Progress in the month of December 2025	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	NOC has not been issued to industries for Ground Water extraction during October 2025	NOC has not been issued to industries for Ground Water extraction during November 2025		Demand Based	1.As per the GEC estimation all the blocks in the District has been categorized as SAFE. 2.Provisions of GW (control &Regulation) Act 2002 is implementing strictly for regulating extraction of GW resource in the district
2	B(ii)	Ground water recharging / rain water harvesting	Estimate for Implementation of ARS at 4 sites has been prepared and sent for Technical Sanction.	ARS at 4 sites Ranni Technical Sanction obtained & work tendered. Feasibility for new 5 sites at Ranni found & estimate under preperation		100%	All the blocks in the district is categorized as SAFE as per GEC estimation. Kadapra-Niranam Area is not feasible for Ground Water Recharge. However, GW recharging programme is taken up in some pockets in the midland area including Manimala basin. Where seasonal GW level fluctuation is noticed.

3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps	General & Iron samples of the observation wells (14 Nos- Trend & Surveillance Station- Selected Wells) in the District collected during the month July 2025 and sent to Analytical Lab Trivandrum.	General & Iron samples of the observation wells (14 Nos- Trend & Surveillance Station- Selected Wells) in the District collected during the month July 2025 and sent to Analytical Lab Trivandrum.		Periodic assesment (Regular programme) Chemical analysis result of groundwater samples received from analytical lab. Trivandrum upto December 2023	(i)Maintaining a network of observation wells in various hydrogeomorphic units throughout the district from which water level and water samples have been collected periodically and analysed. (ii)generally groundwater quality is good and potable
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices	Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the clearance from GWD. ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose. 3 number of Mass Awareness Programme on Ground Water Conservation & regulation completed.	Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the clearance from GWD. ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose. 3 number of Mass Awareness Programme on Ground Water Conservation & regulation completed.		Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the clearance from GWD. ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose. iii) Awareness Programme organised to the public to adopt rainwater harvesting measures.	1) Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the feasibility report of GWD. ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose. iii)Awareness programmes organised to the public to adopt rainwater harvesting measures

Analysis Result of Drains Joining to Mannar-Thakazhi Stretch of Pamba River (December-2025)																
SL.No	Name of Drain	Parameters														
		pH			Electrical Conductivity(µS/cm)			BOD(mg/l)			TC(Nos/100ml)			FC		
	Months	OCT	NOV	DEC	OCT	NOV	DEC	OCT	NOV	DEC	OCT	NOV	DEC	OCT	NOV	DEC
1	Parumala Drain	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
2	MannarTown Drain	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3	Kuriyathkadavu Thodu	8.5	8.7	7.09	158.9	133.9	151.1	4.8	4.03	2.6	2000	1800	1000	1200	700	400
4	KaruvelilThodu	8	8.5	6.75	92.67	161.5	50.39	3.6	1.25	0.5	NIL	900	200	NIL	500	100
5	Nochithodu	8.1	8.3	7.03	90.59	158.3	482.6	5.8	2.11	2.4	NIL	1600	700	NIL	600	200
6	Pattaparambil Thodu	7.7	8.4	7.26	64.83	52.12	50.23	4.4	0.26	1.2	400	200	400	200	100	100
7	Kappiyarissery Thodu	7.7	8.1	7.08	67.76	102.7	49.5	2.4	2.4	1.6	600	1000	400	200	500	200
8	Kombankery Thodu	7.4	8.1	7.02	66.22	61.52	47.23	2.7	1.58	1.4	200	1200	200	100	700	100
9	Perackalthodu	7.5	8	7	77.99	62.64	57.16	1.5	1.58	0.1	200	1000	NIL	100	300	NIL
10	Erathodu	7.7	7	6.99	39.74	160.7	44.32	0.8	0.53	0.7	3200	400	200	400	100	100
11	Kolarayaru	7.6	NIL	7.01	48.99	NIL	38.24	2.7	NIL	0.5	400	NIL	400	200	NIL	100

WATER QUALITY DATA OF POLLUTED RIVER STRETCHES DECEMBER-2025

DISTRICT OFFICE, PATHANAMTHITTA

Date of Sampling: 20.12.2025

Sl. No	PARAMETERS	THAKAZHY	EDATHUA	MANNAR
1	Temperature, °C	27	28	27
2	pH	6.8	6.8	6.8
3	Conductivity, µmhos/cm	152	110	128
4	Turbidity, NTU	1.0	1.0	1.0
5	Phenolphthalein Alkalinity, as CaCO ₃	Nil	Nil	Nil
6	Total Alkalinity, as CaCO ₃	32	25	28
7	Chloride, mg/l	51	20	34
8	COD, mg/l	5.0	6.2	5.0
9	TKN, mg/l	NIL	NIL	NIL
10	Ammoniacal-N, mg/l	BDL	BDL	BDL
11	Hardness, as CaCO ₃ mg/l	36	28	29
12	Calcium, as CaCO ₃ mg/l	20	18	18
13	Magnesium as CaCO ₃ , mg/l	16	10	11
14	Sulphate, mg/l	6.9	6.8	6.2
15	Sodium, mg/l	26.4	10.2	18.5
16	Total Dissolved Solids, mg/l	137	82	108
17	Total Fixed Solids, mg/l	45	32	38
18	Total Suspended Solids, mg/l	72	54	55
19	Phosphate, mg/l	BDL	BDL	BDL
20	Boron, mg/l	BDL	BDL	BDL
21	Potassium, mg/l	8.8	3.5	6.5
22	BOD, mg/l	1.4	2.06	1.0
23	Fluoride, mg/l	BDL	BDL	BDL
24	Dissolved Oxygen, mg/l	5.4	4.2	6.8
25	Nitrate-N, mg/l	4.227	2.801	3.705
26	Total Coliform, CFU/100 ml	2750	7000	6000
27	Faecal Coliform, CFU/100 ml	550	1250	1500
28	SAR	1.9	0.8	1.5
29	% of sodium	54.8	40.6	51.8
30	Faecal Strepto Coccus, CFU/100 ml	100	250	50


12/01/2026

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ACTION PLAN FOR RIVER MANIMALA, KERALA								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of October 2025	Progress in the month of November 2025	Progress in the month of December 2025	% works completed	Details of works remaining
A(a)	Monitoring of river water quality	Kerala State Pollution Control Board	Continuing project				100%	Nil
A(b)	Rendering Plant at Eraviperoor or Thiruvalla	Eraviperoor/ Thiruvalla local body	31.03.2021	15 TPD capacity rendering plant functioning at Pallickal (Green Tech)	NIL	NIL		Work to be initiated
C(ii)	Fencing of bridges, desilting, dredging and protection works, surveillance cameras at vantage points	Irrigation department	31.03.2021	Fund to be allotted for the proposal	Fund to be allotted for the proposal	Fund to be allotted for the proposal	0%	Work to be initiated Project report for the holistic rejuvenation of the reach is prepared and submitted to government
C	Preventing illegal discharge of septage and other waste water into the river. Formation of River Protection Group	Panchayath, Police , KSPCB	31.05.2020.				0%	Work pending due to COVID pandemic
C	Greenery development Plantation on both sides of the river, setting up biodiversity parks in flood plains and removing encroachment	Irrigation department in association with panchayath	31.03.2021	Fund to be allotted for the proposal	Fund to be allotted for the proposal	Fund to be allotted for the proposal	0%	Yet to be initiated Project report for the holistic rejuvenation of the reach is prepared and submitted to government
C(b)(ii)	Green Protocol implementation in all offices, institution & public functions	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoor panchayaths	31.03.2020	Puramattom Implemented			100%	0
D(a)	Issues relating to E-flow, maintaining minimum environmental flow of river (by having watershed management provisions)	Irrigation department, Hydrographic survey department	31.03.2021	Fund to be allotted for the proposal	Fund to be allotted for the proposal	Fund to be allotted for the proposal	0	Work to be initiated Project report for the holistic rejuvenation of the reach is prepared and submitted to government
C(ii)	Establishment of decentralized solid waste treatment facilities	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoor panchayaths	31.12.2020	ongoing			100%	0

C	Installing household & community level solid and domestic sewage waste management	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoor panchayaths	31.12.2020	ongoing			NA	NA
C	Door to door collection of solid waste & Material Collection Facilities (MCF) & Resource Revcovery Facilities (RRF)	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoor panchayaths	31.12.2020	ongoing			NA	NA
ACTION BY GROUND WATER DEPARTMENT								
Sl. No	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Timeline	Progress in the month of October 2025	Progress in the month of November 2025	Progress in the month of December 2025	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	31.03.2021	NIL			NIL	NIL
2	B(ii)	Ground water recharging / rain water harvesting in Govt offices	31.03.2021	NIL			NIL	NIL
3	NGT order in O.A no.496/2016 Identification of illegal bore wells in the catchment area.	NGT order in O.A no.496/2016 Identification of illegal bore wells in the catchment area.	31.03.2021	NIL			NIL	NIL

**ANALYSIS REPORT OF DRAINS OF MANIMALA BETWEEN KALLOOPARA AND
THONDRA
December- 2025**

SI NO	BOTTLE NO.	Name of Drains	PH	BOD	TC	FC
1	TK1	Panayampalathodu	6.97	1.4	800	500
2	TK2	PadathupalamThodu	NIL	NIL	NIL	NIL
3	TK3	Thottappuzha	7.04	1.9	1100	400
4	TK4	Kuttapuzha under Kattodubridge	6.96	3.2	1800	1000
5	TK5	Kadavumbara	6.99	3.4	2200	200
6	TK6	Drain under Varappalam Bridge	NIL	NIL	NIL	NIL
7	TK7	Drain under kallupalam Bridge	7	2.4	1500	800
8	TK8	Komalamthodu	7.01	0.1	200	100
9	TK9	Vennikulam Valiyathodu	7.14	2.2	900	300
10	TK10	Paduthodu	7.04	1.6	700	100
11	TK11	Mallappally Valiyathodu	7.1	2.5	1300	800

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
A(b)	Augmentation and Revamping of existing STP at near Adwathas Ashramam and to increase the capacity of STP so as to treat more sewage generated in the municipality	Aluva Municipality	Dec 2019	Work delayed due to the problem arised regarding the access road to STP , Case ongoing. All the mechanical machinery of the STP needs to be replaced for the renovation. The estimate was recast. Electrical work and civil work are almost complete. Re-tender was called for the mechanical work, and the work order was issued.Steps will be taken to obtain PCB consent for the STP. Access to the Sewage Treatment Plant has been obstructed by the Adwathasramam by constructing a wall. Consequently, a notice for the removal of this impediment has been sent by the Municipality, The matter was already addressed to the district collector & in the next week a meeting is scheduled by the District collector.	All the mechanical machinery of the STP needs to be replaced for the renovation. The estimate was recast. Electrical work and civil work are almost complete. Re-tender was called for the mechanical work, and the work order was issued.Steps will be taken to obtain PCB consent for the STP. Access to the Sewage Treatment Plant has been obstructed by the Adwathasramam by constructing a wall. Consequently, a notice for the removal of this impediment has been sent by the Municipality, The matter was already addressed to the district collector & in the next week a meeting is scheduled by the District collector.			
A(b)	Augmentation and Revamping of exisiting STP at Aluva Market and to increase the capacity of STP so as to treat more sewage generated in the municipality	Aluva Municipality	2021	Foundation stage completed. The reconstruction of the Aluva General Market has received administrative sanction for Rs. 48 Crore under PMSSY, and the DPR has been prepared. The reconstruction of the market includes an ETP with increased capacity (1 MLD). Since an ETP with increased capacity is being installed, the proposal for the lower capacity ETP proposed only for the Fish Market will be excluded. An application has been submitted to the Board for Consent to Establish for the construction work of the market's ETP. The inauguration of the Hi-Tech Market was conducted on June 29. The DPR includes STP and ETP.Piling work is ongoing	The reconstruction of the Aluva General Market has received administrative sanction for Rs. 48 Crore under PMSSY, and the DPR has been prepared. The reconstruction of the market includes an ETP with increased capacity (1 MLD). Since an ETP with increased capacity is being installed, the proposal for the lower capacity ETP proposed only for the Fish Market will be excluded. An application has been submitted to the Board for Consent to Establish for the construction work of the market's ETP. The inauguration of the Hi-Tech Market was conducted on June 29. The DPR includes STP and ETP.Piling work is ongoing			

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
A(b)	Discharge of sewage from township to the River through drain near Periyar Hotel shall be stopped.	Aluva Municipality	2020	A Special Squad has been formed for inspection. Inspection is conducted at the outlets leading to canals, streams, and the Periyar, and fines are imposed	A Special Squad has been formed for inspection. Inspection is conducted at the outlets leading to canals, streams, and the Periyar, and fines are imposed			
A(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain and to collect fine based on polluter pay principle	Aluva Municipality, KSPCB	2020	A Special Squad has been formed for inspection. Inspection is conducted at the outlets leading to canals, streams, and the Periyar, and fines are imposed	A Special Squad has been formed for inspection. Inspection is conducted at the outlets leading to canals, streams, and the Periyar, and fines are imposed			
A(a)(iv)	Periodical inspection in the Industries, Flats, hotels monitoring of STP,ETP	KSPCB	Periodical	Ongoing	Ongoing			
C(ii)	Installation of modern abattoirs	Aluva Municipality	March 2021	It was reported that the Council approved the Expression of Interest for the construction of a modern slaughterhouse and preparation of the DPR on 12.07.2024, and further steps are being taken. This is included in the DPR for the new General Market. The PCB informed that an ICE application should be submitted for the construction of the Slaughterhouse. Approval has not been received from the Town Planning Department as a house is situated at a distance of 7.5 m. Request for Direct approval from the government is sent.	It was reported that the Council approved the Expression of Interest for the construction of a modern slaughterhouse and preparation of the DPR on 12.07.2024, and further steps are being taken. This is included in the DPR for the new General Market. The PCB informed that an ICE application should be submitted for the construction of the Slaughterhouse. Approval has not been received from the Town Planning Department as a house is situated at a distance of 7.5 m. Request for Direct approval from the government is sent.			
A(b)	Procurement of sewer cleaning machines and equipment maintenance	Aluva Municipality	March 2020	Drain cleaning activities are carried out daily. equipment like JCB, Hitachi , through an annual contract. Equipment for cleaning drains has been purchased.	Drain cleaning activities are carried out daily. equipment like JCB, Hitachi , through an annual contract. Equipment for cleaning drains has been purchased.		100	

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
E	Installation of cameras at the waste dumping spots	Aluva Municipality	2020	As part of monitoring dumping sites (places where waste is deposited), 66 cameras have been installed. All are working. Rs. 15 Lakh has been earmarked for installing new cameras. They will be installed this financial year. Fine details for after last meeting: Fine- Rs.22500/-	As part of monitoring dumping sites (places where waste is deposited), 66 cameras have been installed. All are working. Rs. 15 Lakh has been earmarked for installing new cameras. They will be installed this financial year. Fine details for after last meeting: Fine- Rs.22500/-			
A(b)	Construction of retaining wall with HDPE liner at Kalamassery dumping yard in order to prevent the leachate discharge from the yard to Thoombungal Thodu	Kalamassery Municipality	Sept 2019	The construction work of the boundary wall of the dumping yard has been completed. The compound wall construction has been completed. The STP will be installed immediately after Biominig. Biominig work is 45% complete. Biominig operations were suspended in April and will restart in November.	The construction work of the boundary wall of the dumping yard has been completed. The compound wall construction has been completed. The STP will be installed immediately after Biominig. Biominig work is 45% complete. Biominig operations were suspended in April and will restart in November.		45%	Retaining wall works already completed. 55% of biominig works are pending which will be resumed once we get a continous rainfree period of 10 days

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
C(ii)	Installation of plastic shredding unit	Kalamassery Municipality	June 2019	One plant has been established and is operating. The shredded material is taken by CKCL. It was reported that this is taken to the Palakkad Cement Factory. It has been decided to establish a PSU after the biomining is complete.	One plant has been established and is operating. The shredded material is taken by CKCL. It was reported that this is taken to the Palakkad Cement Factory. It has been decided to establish a PSU after the biomining is complete.		100%	Project for Non biodegradable waste processing is planned under the SWM plan of Kalamassery, which will be installed in the land at ward 6, immediately after the Biomining process.
A(a)(iv)	Constitution of squads for night surveillance for finding the unauthorized dumping of sewage at NAD wet lands Kalamassery	Kalamassery Municipality, Police department	2020	A squad has been formed and continuous surveillance is being conducted. Those who dump waste are being identified using the cameras available to the Municipality. Cameras cannot be installed on the NAD road as the area is under the control of NAD. An IEC plan is being put forward in association with the KSWMP project. As part of this, the decision to provide drainage and awareness classes has been included in this year's plan.	A squad has been formed and continuous surveillance is being conducted. Those who dump waste are being identified using the cameras available to the Municipality. Cameras cannot be installed on the NAD road as the area is under the control of NAD. An IEC plan is being put forward in association with the KSWMP project. As part of this, the decision to provide drainage and awareness classes has been included in this		NA	IEC awareness activities started. Compound wall painting and wall writing under progress. Various Sign boards, Street plat, Cycle rally

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
A(b)	Installation of common STP for Kalamassery Municipality and ETP at Municipal Market	Kalamassery Municipality	Decemb er 2019	The tender for renovation of market is scheduled to be opened on October 6th 2025. The STP works is also proposed to be started along with the completion of renovation works of the market. The expected date of completion is 31.07.2026. The bioming works will be completed by 31.03.2026. The tender opened for the renovation works and selection notice has been issued. The work will commence soon. The work of renovating the existing ETP in the market has not started. The market renovation will be completed within 2 months. The STP will be established at the current dumping yard site after the completion of biominig. A proposal for 2 new STPs has been sent to the DPC.. The construction of the STP has been decided to be included as a new project in this year's plan. It has been decided to complete the works by July 2026	The work of renovating the existing ETP in the market has not started. The market renovation will be completed within 2 months. The STP will be established at the current dumping yard site after the completion of biominig. A proposal for 2 new STPs has been sent to the DPC.. The construction of the STP has been decided to be included as a new project in this year's plan. It has been decided to complete the works by July 2026		NA	Tender opened for renovation of existing ETP in the market.. Selection notice issued.Work will commence soon.
A(a)(iv)	Monitoring and surveillance of industries in Kalamassery Industrial Estate in order to prevent unauthorized discharges to Muttar River	KSPCB	2019					
C(ii)	Installation of modern abattoirs including poultry and meat rendering plants.	Kalamassery Municipality, Industries Department (for land allotment)	2021	There is no progress due to the lack of space.	There is no progress due to the lack of space.		NA	
A(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Kalamassery Municipality	2020	A fine of Rs. 22,36,940/- has been collected so far for waste dumping and sewage discharge. Waste dumping fine: August – Rs. 25000/-	A fine of Rs. 22,36,940/- has been collected so far for waste dumping and sewage discharge. Waste dumping fine: August – Rs. 25000/-		NA	

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
E	Installation of cameras at the waste dumping spots	Kalamassery Municipality	2020	84 cameras have been installed, 2 in each of the 42 wards. Visuals are available.	84 cameras have been installed, 2 in each of the 42 wards. Visuals are available.			
A(b)	Identification of sources of sewage discharged to drain near Pathalam bridge and action to stop the discharge which reach river Periyar from hotels, labour camps etc In case the quantity of sewage generated is assessed to be more STP need to be installed	Eloor Municipality, KSPCB (for monitoring)	2020	Inspections are conducted periodically. Arrangements were made to divert the sewage discharged from shopping complexes, shops, etc., to the soak pit, and the problem was solved. Fencing is completed. Discussions are ongoing with FACT for the land required for establishing STP. A meeting was held on 19/06/2025. The agency presented the presentation about the STP to the FACT officials. Monthly fine collection is around Rs.1,00,000	Inspections are conducted periodically. Arrangements were made to divert the sewage discharged from shopping complexes, shops, etc., to the soak pit, and the problem was solved. Fencing is completed. Discussions are ongoing with FACT for the land required for establishing STP. A meeting was held on 19/06/2025. The agency presented the presentation about the STP to the FACT officials. Monthly fine collection is around Rs.1,00,000		100	NA
E	Installation of cameras at the waste dumping spots	Eloor Municipality	2020	84 cameras have been installed. All are working. Fines are collected. Keltron cameras have installed near the aerobic bin close to HIL Company and near the aerobic bin atManjummalarattukadavu, Where the waste is frequently deposited.	84 cameras have been installed. All are working. Fines are collected. Keltron cameras have installed near the aerobic bin close to HIL Company and near the aerobic bin atManjummalarattukadavu, Where the waste is frequently deposited.		100	
A(a)(iv)	Periodical inspection in the Industries, Flats, hotels for monitoring of STP,ETP located in Cochin corporation	KSPCB	periodical					

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
A(a)	Inventory of sources of pollution through a rapid study/Study for identification of pollution sources at Edapally thodu	Kochi Municipal Corporation	3 months	Squad comprising Engineering & Health has been formed to identify the sources dumping sewage/waste water. 4 squads conduct regular inspections. Desilting works for the year 2024 have been completed. Desilting work for the year 2025-2026 is ongoing. Night squad conducts inspections at these locations. A special squad conducts inspections regarding septic tanks. Fine collected, (Total): Rs. 528700/- from 01/08/2025 to 31/08/2025	Squad comprising Engineering & Health has been formed to identify the sources dumping sewage/waste water. 4 squads conduct regular inspections. Desilting works for the year 2024 have been completed. Desilting work for the year 2025-2026 is ongoing. Night squad conducts inspections at these locations. A special squad conducts inspections regarding septic tanks. Fine collected, (Total): Rs. 528700/- from 01/08/2025 to 31/08/2025		NA	
E	issuing notice to the defaulters	Kochi Municipal Corporation	4 months					
A(a)(iv)	Periodical inspection in the flats, hotels, shops located along the river	Kochi Municipal Corporation	periodical	Regular inspections are conducted in establishments near the river.	Regular inspections are conducted in establishments near the river.			

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
A(b)	Identification of natural drains/thodu reaching river Periyar and cleaning of weeds, grasses etc	Irrigation department	2 years	The Eerezhachal Punchathodu site has been handed over to the contractor. Due to complaints from nearby residents regarding encroachment, the Assistant Executive Engineer has sent a letter to the Paravur Bhoorekha Tahsildar, and the Executive Engineer has written to the Hon'ble District Collector, Ernakulam, requesting boundary demarcation. The desilting work of Kuthuthodu has been completed under Operation Vahini 2025-26.	Minor Irrigation: Cleaned 23 streams in Eloor Municipality. The project "KrishikkopamKalamassery" worth Rs.8 Crore is ongoing. This includes the desilting of 40 streams, 7 culverts, and 2 sluicers. Desilting&deweedingof streams has been completed 25 in Karumalloor region. 80% of the work on 7 culverts has been completed. <u>Major Irrigation:</u> The work of cleaning, weed removal, and side protection has been arranged for one of the thodus, "Erezhuchaal Punchathodu." However, the work could not be commenced due to complaints from nearby residents regarding encroachment. Accordingly, the Assistant Executive Engineer, Additional Irrigation Sub Division, Aluva, has requested the Bhoorekha Tahsildar, Paravoor, to carry out boundary demarcation. A letter has also been addressed to the District Collector to expedite the demarcation works. <u>1. Kuthu thodu</u> The desilting work of kuthu thodu has been completed under operation vahini 2025-26.			

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
C(iii)	Clearing of weeds, grasses at the river bank in order to ensure the smooth flow of water	Irrigation department	3 years	The first phase of the work for removing weeds in the upstream and downstream reaches of the Pathalam RCB is in progress (GENERAL-NGT - Works-Periodic Cleaning works- Removal of water hyacinth from the Upstream and Downstream of Pathalam Lock cum Regulator at Eloor Municipality in Ernakulam District-2024-25-General Civil Work – Rs.13 Lakhs). This activity is planned to be carried out three times a year to ensure the river remains clean at all times.	The first phase of the work for removing weeds in the upstream and downstream reaches of the Pathalam RCB is in progress (GENERAL-NGT - Works-Periodic Cleaning works- Removal of water hyacinth from the Upstream and Downstream of Pathalam Lock cum Regulator at Eloor Municipality in Ernakulam District-2024-25-General Civil Work – Rs.13 Lakhs). This activity is planned to be carried out three times a year to ensure the river remains clean at all times.			
D(a)	Maintaining of Minimum flow in river during lean period and periodical operation of Regulators at River in-order to maintain minimum flow.	Irrigation department	3 years	The Draft Shutter Operation Protocol (SOP) was submitted to the Government on 03/09/2025 by the Chief Engineer, Irrigation and Administration, for further approval. The shutters are being operated on daily basis according to the upstream and downstream water levels. Cleaning works have been arranged for a period of one year. Currently, the river courses are in clean stage.	As part of the water management, shutters are being operated as required. The draft Shutter Operation Protocol (SOP) was submitted to the Government for approval in September 2025 and is awaiting approval for implementation. Officials of the Pollution Control Board are sharing dissolved oxygen (DO) levels in the official WhatsApp group formed for monitoring the operation of RCBs. On review, it is observed that the DO level near the Pathalam RCB is satisfactory (above 4 mg/Ltr). Hence the shutters are being operated in and efficient and systematic manner			

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
A(b)	Common Effluent Treatment Plant at Edayar Industrial Estate	Industries department	2022	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."			
A(b)	Construction of internal roads and proper drainage in Edayar industrial estate	Industries department		All the works related to the maintenance and repair of the internal road have been completed. Joint inspection in collaboration with PCB and PWD conducted. Detailed sketch of the industrial estate was given to the concerned department for doing required rectification in drainage works. It has been decided to construct a delay pond at the drainage entry point of every unit into the main drainage system. 25 locations have been identified for these delay ponds.	Road drainage works worth ₹9.47 crore completed under the CDP scheme. 100% of the drainage construction completed for the ₹34 lakh allocated to PWD. All maintenance/repair works for internal roads are complete. PCB and PWD conducted a joint inspection, and a rectification sketch for the drainage system was given to PWD. PWD needs to submit the Feasibility Report to the industrial estate.		100%	

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
A(b)	Installation of common discharge pipe line at downstream of Pathalam Regulator Bridge	Industries department, Irrigation department	3 years	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."			
E	Installation of Night vision surveillance cameras at the River Bank side	KSPCB	2020	Surveillance cameras and related equipment have been installed	Surveillance cameras and related equipment have been installed		100	
A(a)(iv)	Periodical Monitoring of Eloor, Edayar, Kalamassery Industrial belts	KSPCB	2020	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.		100	
A(a)(iv)	Monitoring of quality of water at various intake point	Kerala Water Authority	2020					
A(a)(iv)	Installation of additional continuous online River water monitoring station	KSPCB	2022	Real time water quality monitoring stations has been installed at the upstream & downstream side of pathalambund.	Real time water quality monitoring stations has been installed at the upstream & downstream side of pathalambund.		100	
A(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Kadungallur Panchayath	2020	Establishments dumping sewage are identified, and fines are collected.	Establishments dumping sewage are identified, and fines are collected.		100	
E	Installation of cameras at the waste dumping spots	Kadungallur Panchayath	2020	42 cameras have been installed currently.	42 cameras have been installed currently.		100	NIL

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
A(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Choornikkara Panchayath	2020	Inspections are being conducted, the panchayat is directed to update the details of fines collected recently, if any.	Inspections are being conducted, the panchayat is directed to update the details of fines collected recently, if any.			
	Installation of cameras at the waste dumping spots	Choornikkara Panchayath	2020	56 cameras have been installed. 2 camera are not working now. It will be resolved after renewing the AMC. 13 more cameras will be installed using KMRL CSR fund. It has been sent for government approval.	56 cameras have been installed. 2 camera are not working now. It will be resolved after renewing the AMC. 13 more cameras will be installed using KMRL CSR fund. It has been sent for government approval.			
LONG TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
A(b)	Construction of walkway, ring roads etc at the Periyar River bank at industrial belt.	Irrigation department	4 years	The DPR can be prepared only after the Revenue Department completes the boundary demarcation. The funds for this work have already been transferred to the Bhoorekha Tahsildar, Paravoor. The demarcation work commenced on 07/03/2025. Out of the total 1200 meters of dyke wall area, 730 meters have been demarcated, while the remaining 470 meters are yet to be completed and plotted. Repeated letters have been sent to the Hon’ble District Collector and the Land Records Tahsildar, requesting them to take necessary steps to complete the demarcation work at the earliest. The design of the dyke wall has already been finalized, and the DPR will be prepared once the demarcation work is completed.	The proposal for construction of dyke wall and surveillance road on the right bank of the Periyar River, along the Eloor–Muppattadam Industrial Area has been submitted. As a part of this proposal Initial investigation works has been completed. The Irrigation Design and Research Board has completed the design process for the dyke wall; however, the Detailed Project Report (DPR) can be prepared only after completion of the survey and demarcation process for the entire length is completed . Survey & Dermarcation works is in progress, and out of the total length of 1.20 km, survey of 730 metres has completed.. been Survey work for the remaining 470 metres is yet to be completed. Letters have been sent to the Hon’ble District Collector and the Land Records Tahsildar, requesting them to take necessary steps complete to the demarcation work at the earliest			
C(i)	Fencing of the river banks along the stretches of waste disposal (Edamula stretch)	Cochin Municipal Corporation	1-2 years	The fencing work of the Aryanpadam stream presented has in been the budget. Permission has been received for only 40 cameras. They are being installed in 24 wards of the Smart City. A proposal for 40 AI cameras for monitoring the water body and waste dumping into it has been presented to the committee.	The fencing work of the Aryanpadam stream presented has in been the budget. Permission has been received for only 40 cameras. They are being installed in 24 wards of the Smart City. A proposal for 40 AI cameras for monitoring the water body and waste dumping into it has been presented to the committee.			
C(iii)	Beautification of the river stretches (Edamula stretch)	Cochin Municipal Corporation	1-2 years					
ACTION BY GROUND WATER DEPARTMENT								
Sl. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks						
2	B(ii)	Ground water recharging / rain water harvesting						
3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps						
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices						

Analysis report of polluted river stretches-R Periyar, R- Chithrapuzha,R-Kadambrayar, R-Chalakudy For the month of November 2025

STNCode	Sampling Date	Sampling Time	StnName	Type Of Water Body	Name Of Water Body	River Basin	
17	07.11.2025	10:45	Periyar at Eloor	River	Periyar River		
1338	05.11.2025	10:15	Periyar at SDP Aluva	River	Periyar River		
2334	18.11.2025	10:30	Periyar at Pathalam	River	Periyar River		
2335	18.11.2025	11:50	Periyar at Kalamassery	River	Periyar River		
3468	05.11.2025	10:45	Periyar at KWA Aluva	River	Periyar River		
2337	12.11.2025	10:30	Kadambrayar At Brahmapuram	River	Kadambrayar River		
2338	12.11.2025	11:35	Kadambrayar At Manackakadavu	River	Kadambrayar River		
1573	12.11.2025	10:00	Chithrapuzha At Irumpanam	River	Chithrapuzha River		
1154	05.11.2025	1:25	Chalakudy at Pulikkakadavu	River	Chalakudy River		

Sl. No.	Parameters	Values								
		Station Code								
		17	1338	2334	2335	3468	2337	2338	1573	1154
1	Temperature, °C	27	27	27	28	27	27	27	27	27
2	Dissolved Oxygen, mg/l	6.0	6.8	6.2	7.9	8.0	2.3	2.8	2.4	8.8
3	pH	6.3	7.6	6.7	6.9	7.5	7.6	7.3	7.6	7.4
4	Conductivity, µmhos/cm	86	55	200	46	48	160	120	410	83
5	BOD, mg/l	1.1	1.4	2.9	2	2.3	3.4	2.1	4.2	2.3
6	Nitrate-N, mg/l	0.21	0.48	0.56	0.4	0.27	0.1	0.45	0.37	0.22
7	Turbidity, NTU	0.8	0.4	2.1	3.5	0.3	2.1	1.8	5.6	0.8
8	Phenolphthalein alkalinity	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
9	Total Alkalinity, as CaCO3	14	15	10	12	14	31	23	53	9
10	Chloride, mg/l	14	7	47	4	5	21	15.5	62	20
11	COD, mg/l	3.2	4.0	8.8	6.4	5.6	6.4	6.4	12.8	6.4
12	TKN, mg/l	2.24	BDL	BDL	BDL	BDL	1.12	1.12	2.24	BDL
13	Ammoniacal-N, mg/l	0.14	BDL	0.03	BDL	BDL	BDL	BDL	2.13	BDL
14	Total Hardness, as CaCO3 mg/l	19	15	38	13	12	30	25	56	16
15	Calcium, as CaCO3 mg/l	18	12	34	7	9	24	16	37	12
16	Magnesium as CaCO3, mg/l	1	3	4	6	3	6	9	19	4
17	Sulphate, mg/l	BDL	BDL	10.5	BDL	BDL	3	2	23.6	BDL
18	Sodium, mg/l	9.1	3.8	31	2.6	3.3	15	10	46	13
19	Total Dissolved Solids, mg/l	50	32	115	26	28	90	67	232	56
20	Total Fixed Solids, mg/l	40	26	92	21	22	72	54	186	45
21	Total Suspended Solids, mg/l	BDL	BDL	BDL	BDL	11	BDL	BDL	3.2	BDL
22	Phosphate, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	BDL
23	Boron, mg/l	0.007	BDL	BDL	BDL	0.003	0.015	BDL	0.03	0.001
24	Potassium, mg/l	1	1.1	1.50	0.79	0.85	2.5	1.9	2.8	0.82
25	Fluoride, mg/l	0.027	0.019	0.03	0.03	0.021	0.133	0.052	1.013	0.022
26	Total Coliform, MPN/100 ml	1200	5000	2700	2600	3200	21000	20000	22000	8000
27	Feecal Coliform, MPN/100 ml	630	410	100	200	580	2000	1200	2200	140
28	Feecal Streptococci, MPN/100ml	NIL	NIL	13	NIL	NIL	NIL	15	410	NIL

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -OCTOBER 2025						
Sampling point: VETTUKADAVU						
Sl. No	Parameter	Unit	05.10.2025	25.10.2025		
1	Temperature	°c	31.2	31.2		
2	pH		7.28	7.6		
3	Conductivity	µS/cm	75.00	118		
4	TDS	NTU	43.41	68.30		
5	Turbidity	mg/L	*	*		
6	Colour	"	20.0	20.0		
7	SS	"	2.40	2.14		
8	Chlorides	"	12.9	2		
9	Hardness	"	50	21		
10	D.O.	"	6.45	5.83		
11	COD	"	1.28	3.24		
12	Calcium	"	8	4.8		
13	Magnesium	"	7.29	2.187		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.155	0.189		
17	Hexa Chromium	"	0.049	0.053		
18	Oil & Grease	"	1.92	2.92		
19	Iron	"	0.377	0.817		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	5.938	5.238		
22	Total Alkalinity	"	20	18		
23	Nitrate	"	1.308	1.756		
24	BOD	"	1.35	1.63		
25	TC	"	180	660		
26	FC	"	120	280		
27	FS	"	100	100		
28	Sodium	ppm	1.6	1.6		
29	Potassium	ppm	0.82	0.32		
30	SAR	meq/L	0.097	0.15		
* TURBIDITY METER IS OUT OF ORDER						
# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param						

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -OCTOBER 2025						
Sampling point: PATHALAM BRIDGE						
Sl. No	Parameter	Unit	05.10.2025	25.10.2025		
1	Temperature	°c	31.5	31.1		
2	pH		7.18	7.29		
3	Conductivity	µS/cm	456.3	62.32		
4	TDS	NTU	264.11	36.07		
5	Turbidity	mg/L	*	*		
6	Colour	"	20	20		
7	SS	"	0.62	1.02		
8	Chlorides	"	129.07	7.94		
9	Hardness	"	110	16		
10	D.O.	"	6.16	5.76		
11	COD	"	2.04	2.04		
12	Calcium	"	8	4.8		
13	Magnesium	"	21.87	0.972		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.132	0.198		
17	Hexa Chromium	"	0.046	0.055		
18	Oil & Grease	"	1.72	1.86		
19	Iron	"	0.274	0.738		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	9.844	2.143		
22	Total Alkalinity	"	16	22		
23	Nitrate	"	1.416	1.846		
24	BOD	"	1.66	1.72		
25	TC	"	1200	1520		
26	FC	"	200	700		
27	FS	"	540	200		
28	Sodium	ppm	1	1.9		
29	Potassium	ppm	0.4	0.62		
30	SAR	meq/L	0.041	0.204		
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KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -OCTOBER 2025						
Sampling point: PUTHALAM KADAVU						
Sl. No	Parameter	Unit	05.10.2025	25.10.2025		
1	Temperature	°c	31.7	31.1		
2	pH		6.75	7.4		
3	Conductivity	µS/cm	56.01	106		
4	TDS	NTU	32.42	61.06		
5	Turbidity	mg/L	*	*		
6	Colour	"	20.0	20.0		
7	SS	"	2.80	1.44		
8	Chlorides	"	7.94	23		
9	Hardness	"	50	15		
10	D.O.	"	6.16	4.78		
11	COD	"	2.16	1.44		
12	Calcium	"	4	4.8		
13	Magnesium	"	9.72	0.729		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.136	0.189		
17	Hexa Chromium	"	0.046	0.053		
18	Oil & Grease	"	2.6	2.4		
19	Iron	"	0.424	0.78		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	1.25	2.224		
22	Total Alkalinity	"	16	20		
23	Nitrate	"	1.308	1.667		
24	BOD	"	1.26	0.74		
25	TC	"	440	460		
26	FC	"	100	380		
27	FS	"	400	160		
28	Sodium	ppm	1.8	0.82		
29	Potassium	ppm	0.62	0.21		
30	SAR	meq/L	0.109	0.091		
	* TURBIDITY METER IS OUT OF ORDER					
	# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param					

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -OCTOBER 2025						
Sampling point: PATHALAM BUND U/S						
Sl. No	Parameter	Unit	05.10.2025	25.10.2025		
1	Temperature	°c	B	B		
2	pH		U	U		
3	Conductivity	µS/cm	N	N		
4	TDS	NTU	D	D		
5	Turbidity	mg/L				
6	Colour	"	O	O		
7	SS	"	P	P		
8	Chlorides	"	E	E		
9	Hardness	"	N	N		
10	D.O.	"				
11	COD	"				
12	Calcium	"				
13	Magnesium	"				
14	Ammoniacal Nitrogen	"				
15	Free Ammonia	"				
16	Phosphates					
17	Hexa Chromium	"				
18	Oil & Grease	"				
19	Iron	"				
20	Sulphides	"				
21	Sulphates	"				
22	Total Alkalinity	"				
23	Nitrate	"				
24	BOD	"				
25	TC	"				
26	FC	"				
27	FS	"				
28	Sodium	ppm				
29	Potassium	ppm				
30	SAR	meq/L				
	* TURBIDITY METER IS OUT OF ORDER					
	# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param					

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -OCTOBER 2025						
Sampling point: PATHALAM BUND D/S						
Sl. No	Parameter	Unit	05.10.2025	25.10.2025		
1	Temperature	°c	31.6	31.0		
2	pH		6.90	7.2		
3	Conductivity	µS/cm	282.10	64		
4	TDS	NTU	163.28	36.87		
5	Turbidity	mg/L	*	*		
6	Colour	"	20.0	20.0		
7	SS	"	3.60	0.42		
8	Chlorides	"	79.4	9		
9	Hardness	"	70	17		
10	D.O.	"	6.6	4.42		
11	COD	"	3.2	2.24		
12	Calcium	"	16	6		
13	Magnesium	"	4.9	0.486		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.127	0.189		
17	Hexa Chromium	"	0.048	0.053		
18	Oil & Grease	"	5.440	3.24		
19	Iron	"	0.335	0.681		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	5.156	3.106		
22	Total Alkalinity	"	18	22		
23	Nitrate	"	1.380	2.097		
24	BOD	"	2.47	0.25		
25	TC	"	540	880		
26	FC	"	380	200		
27	FS	"	140	160		
28	Sodium	ppm	1.4	1.8		
29	Potassium	ppm	0.24	0.94		
30	SAR	meq/L	0.078	0.188		
	* TURBIDITY METER IS OUT OF ORDER					
	# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param					

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -OCTOBER 2025						
Sampling point: MANJUMMAL BUND						
Sl. No	Parameter	Unit	05.10.2025	25.10.2025		
1	Temperature	°c	31.3	30.8		
2	pH		7.00	7.2		
3	Conductivity	µS/cm	197.3	96.24		
4	TDS	NTU	114.20	55.70		
5	Turbidity	mg/L	*	*		
6	Colour	"	20.0	20.0		
7	SS	"	2.20	0.81		
8	Chlorides	"	44.7	17		
9	Hardness	"	70	17		
10	D.O.	"	6.04	4.91		
11	COD	"	0.84	1.84		
12	Calcium	"	12	4.8		
13	Magnesium	"	7.29	1.215		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.132	0.203		
17	Hexa Chromium	"	0.045	0.054		
18	Oil & Grease	"	3.2	3.06		
19	Iron	"	0.405	0.742		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	8.594	2.181		
22	Total Alkalinity	"	16	22		
23	Nitrate	"	1.29	1.65		
24	BOD	"	2.14	1		
25	TC	"	880	420		
26	FC	"	340	360		
27	FS	"	480	60		
28	Sodium	ppm	0.92	0.72		
29	Potassium	ppm	0.26	0.18		
30	SAR	meq/L	0.051	0.075		
* TURBIDITY METER IS OUT OF ORDER						
# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param						

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -OCTOBER 2025						
Sampling point: ALUVA - MANAPPURAM						
Sl. No	Parameter	Unit	05.10.2025	25.10.2025		
1	Temperature	°c	31.2	31		
2	pH		6.9	7.06		
3	Conductivity	µS/cm	124.40	65.98		
4	TDS	NTU	72.00	38.19		
5	Turbidity	mg/L	*	*		
6	Colour	"	20	20		
7	SS	"	1.06	2		
8	Chlorides	"	25	7.94		
9	Hardness	"	100	17		
10	D.O.	"	6.3	4.3		
11	COD	"	2.2	2.36		
12	Calcium	"	16.0	5.2		
13	Magnesium	"	14.58	0.972		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.179	0.174		
17	Hexa Chromium	"	0.048	0.057		
18	Oil & Grease	"	2.28	4.120		
19	Iron	"	0.269	0.719		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	5	3.242		
22	Total Alkalinity	"	16.0	22.0		
23	Nitrate	"	1.326	1.756		
24	BOD	"	1.11	0.9		
25	TC	"	1560	600		
26	FC	"	520	300		
27	FS	"	400	360		
28	Sodium	ppm	1.2	0.86		
29	Potassium	ppm	0.64	0.11		
30	SAR	meq/L	0.052	0.09		
	* TURBIDITY METER IS OUT OF ORDER					
	# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param					

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -NOVEMBER 2025						
Sampling point: VETTUKADAVU						
Sl. No	Parameter	Unit	05.11.2025	25.11.2025		
1	Temperature	°c	30.6	30.5		
2	pH		7.1	6.96		
3	Conductivity	µS/cm	76.37	83.76		
4	TDS	NTU	44.20	48.48		
5	Turbidity	mg/L	*	*		
6	Colour	"	20	20		
7	SS	"	6.20	34.8		
8	Chlorides	"	12.0	14		
9	Hardness	"	22	19		
10	D.O.	"	6.7	5.3		
11	COD	"	2.04	2.24		
12	Calcium	"	6.4	5.6		
13	Magnesium	"	1.458	1.22		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.179	0.17		
17	Hexa Chromium	"	0.054	0.049		
18	Oil & Grease	"	1.72	0.84		
19	Iron	"	0.644	0.054		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	12.344	6.56		
22	Total Alkalinity	"	18	16		
23	Nitrate	"	2.258	1.935		
24	BOD	"	0.7	0.76		
25	TC	"	800	160		
26	FC	"	160	120		
27	FS	"	60	160		
28	Sodium	ppm	0.84	1.82		
29	Potassium	ppm	0.22	1.02		
30	SAR	meq/L	0.077	0.18		
* TURBIDITY METER IS OUT OF ORDER						
# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param						

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -NOVEMBER 2025						
Sampling point: PATHALAM BRIDGE						
Sl. No	Parameter	Unit	05.11.2025	25.11.2025		
1	Temperature	°c	31.4	30.5		
2	pH		6.9	6.9		
3	Conductivity	µS/cm	44.41	48.2		
4	TDS	NTU	25.70	27.90		
5	Turbidity	mg/L	*	*		
6	Colour	"	20.0	20.0		
7	SS	"	2	2		
8	Chlorides	"	7.94	6.95		
9	Hardness	"	22	13		
10	D.O.	"	7.1	6.1		
11	COD	"	1.64	1.08		
12	Calcium	"	4	4.8		
13	Magnesium	"	0.486	0.243		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.189	0.155		
17	Hexa Chromium	"	0.044	0.044		
18	Oil & Grease	"	1.86	3.64		
19	Iron	"	0.396	0.452		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	4.688	1.406		
22	Total Alkalinity	"	16	18		
23	Nitrate	"	1.828	1.594		
24	BOD	"	1.1	0.8		
25	TC	"	540	120		
26	FC	"	200	100		
27	FS	"	60	140		
28	Sodium	ppm	0.32	0.99		
29	Potassium	ppm	0.2	0.26		
30	SAR	meq/L	0.201	0.118		
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# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param						

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -NOVEMBER 2025						
Sampling point: PUTHALAM KADAVU						
Sl. No	Parameter	Unit	05.11.2025	25.11.2025		
1	Temperature	°c	30.9	30.5		
2	pH		7.08	6.9		
3	Conductivity	µS/cm	48.10	46		
4	TDS	NTU	27.84	26.75		
5	Turbidity	mg/L	*	*		
6	Colour	"	20.0	20.0		
7	SS	"	2.4	8.8		
8	Chlorides	"	6.95	6.95		
9	Hardness	"	11	12		
10	D.O.	"	7.3	6.1		
11	COD	"	2.08	2.16		
12	Calcium	"	3.6	4.4		
13	Magnesium	"	0.486	0.243		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.141	0.155		
17	Hexa Chromium	"	0.045	0.044		
18	Oil & Grease	"	2.2	2.36		
19	Iron	"	0.569	0.504		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	4.688	1.563		
22	Total Alkalinity	"	16	14		
23	Nitrate	"	1.828	1.434		
24	BOD	"	1.3	0.6		
25	TC	"	1120	240		
26	FC	"	60	80		
27	FS	"	120	80		
28	Sodium	ppm	0.66	1.08		
29	Potassium	ppm	0.41	0.82		
30	SAR	meq/L	0.208	0.134		
	* TURBIDITY METER IS OUT OF ORDER					
	# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param					

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -NOVEMBER 2025						
Sampling point: PATHALAM BUND U/S						
Sl. No	Parameter	Unit	05.11.2025	25.11.2025		
1	Temperature	°c	30.8	30.4		
2	pH		7.1	6.8		
3	Conductivity	µS/cm	51	92		
4	TDS	NTU	29.40	53.23		
5	Turbidity	mg/L	*	*		
6	Colour	"	20.0	20.0		
7	SS	"	1.2	3.6		
8	Chlorides	"	7.94	20.85		
9	Hardness	"	13	15		
10	D.O.	"	6.6	5.9		
11	COD	"	2.84	1.12		
12	Calcium	"	4	4.8		
13	Magnesium	"	0.729	0.729		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.17	0.16		
17	Hexa Chromium	"	0.045	0.045		
18	Oil & Grease	"	5.32	1.6		
19	Iron	"	0.363	0.433		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	5.156	1.406		
22	Total Alkalinity	"	14	16		
23	Nitrate	"	2.097	1.613		
24	BOD	"	1.54	0.7		
25	TC	"	1400	280		
26	FC	"	220	200		
27	FS	"	0	120		
28	Sodium	ppm	0.89	2.72		
29	Potassium	ppm	0.62	1.06		
30	SAR	meq/L	0.106	0.302		
* TURBIDITY METER IS OUT OF ORDER						
# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param						

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -NOVEMBER 2025						
Sampling point: PATHALAM BUND D/S						
Sl. No	Parameter	Unit	05.11.2025	25.11.2025		
1	Temperature	°c	30.8	30.6		
2	pH		6.95	6.9		
3	Conductivity	µS/cm	240.00	46		
4	TDS	NTU	138.91	26.78		
5	Turbidity	mg/L	*	*		
6	Colour	"	20.0	20.0		
7	SS	"	1.80	29.60		
8	Chlorides	"	60.57	9.93		
9	Hardness	"	62	20		
10	D.O.	"	6.9	6		
11	COD	"	1.68	2.16		
12	Calcium	"	16.4	4		
13	Magnesium	"	5.103	2.43		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.151	0.16		
17	Hexa Chromium	"	0.051	0.044		
18	Oil & Grease	"	2.2	1.2		
19	Iron	"	0.574	0.452		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	7.5	1.094		
22	Total Alkalinity	"	16	14		
23	Nitrate	"	1.918	1.469		
24	BOD	"	1.9	0.3		
25	TC	"	80	240		
26	FC	"	80	160		
27	FS	"	240	160		
28	Sodium	ppm	1.09	3.2		
29	Potassium	ppm	0.98	2.6		
30	SAR	meq/L	0.059	0.308		
	* TURBIDITY METER IS OUT OF ORDER					
	# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param					

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -NOVEMBER 2025						
Sampling point: MANJUMMAL BUND						
Sl. No	Parameter	Unit	05.11.2025	25.11.2025		
1	Temperature	°c	30.8	30.7		
2	pH		7.10	6.8		
3	Conductivity	µS/cm	52.27	45.35		
4	TDS	NTU	30.25	26.25		
5	Turbidity	mg/L	*	*		
6	Colour	"	20.0	20.0		
7	SS	"	2	6		
8	Chlorides	"	8.94	7.94		
9	Hardness	"	10	14		
10	D.O.	"	6.7	5.9		
11	COD	"	2.08	0.84		
12	Calcium	"	2.4	3.2		
13	Magnesium	"	0.972	1.458		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.155	0.16		
17	Hexa Chromium	"	0.044	0.044		
18	Oil & Grease	"	1.24	2.48		
19	Iron	"	0.541	0.48		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	4.688	1.25		
22	Total Alkalinity	"	16	12		
23	Nitrate	"	1.899	1.577		
24	BOD	"	0.9	0.4		
25	TC	"	540	320		
26	FC	"	40	180		
27	FS	"	20	140		
28	Sodium	ppm	0.92	0.44		
29	Potassium	ppm	0.55	0.12		
30	SAR	meq/L	0.125	0.051		
	* TURBIDITY METER IS OUT OF ORDER					
	# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param					

KERALA STATE POLLUTION CONTROL BOARD						
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR						
ANALYSIS REPORT OF RIVER PERIYAR -NOVEMBER 2025						
Sampling point: ALUVA - MANAPPURAM						
Sl. No	Parameter	Unit	05.11.2025	25.11.2025		
1	Temperature	°c	30.7	30.8		
2	pH		6.9	6.8		
3	Conductivity	µS/cm	59.29	49.02		
4	TDS	NTU	34.32	28.37		
5	Turbidity	mg/L	*	*		
6	Colour	"	20	20		
7	SS	"	3.20	1.6		
8	Chlorides	"	6.95	7.94		
9	Hardness	"	15	17		
10	D.O.	"	6.4	6.3		
11	COD	"	3.6	2.48		
12	Calcium	"	4	4.8		
13	Magnesium	"	1.215	1.22		
14	Ammoniacal Nitrogen	"	BDL	BDL		
15	Free Ammonia	"	BDL	BDL		
16	Phosphates		0.198	0.17		
17	Hexa Chromium	"	0.046	0.044		
18	Oil & Grease	"	2.6	1.12		
19	Iron	"	0.649	0.438		
20	Sulphides	"	BDL	BDL		
21	Sulphates	"	4.063	1.25		
22	Total Alkalinity	"	18	10		
23	Nitrate	"	1.72	1.11		
24	BOD	"	1.2	0.9		
25	TC	"	200	280		
26	FC	"	160	160		
27	FS	"	200	120		
28	Sodium	ppm	0.68	0.72		
29	Potassium	ppm	0.23	0.23		
30	SAR	meq/L	0.076	0.075		
	* TURBIDITY METER IS OUT OF ORDER					
	# As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river param					

POLLUTED RIVER STRETCH MONITORING PROGRAM (DECEMBER 2025)													
Station Name		RIVER KALPATHY AT PEZHUMKARA BRIDGE (Downstream)											
Type of Water body		RIVER											
Completed by		DO, PALAKKAD											
Agency		Kerala State Pollution Control Board											
1	Station Code	P	R		1								
2	Date and time of sample taken (DD/MM/YY, HH/MM)	12/1/2025											
		1	0	:	2	5							
3	Weather	Cloudy			Clear√			Windy			Raining		
4	Approximate depth of main stream	< 50 cm			50 – 100 cm √			>100 cm			Flood		
5	Color & Intensity	Clear √			Turbid			Green			Brown		
		1 = Light			2 = Moderate √			3 = High					
6	Odour	None √			Fishy			H ₂ S			Other		
7	Floating Matter	Floating Algae√			Floating sludge			Oil & Grease			Water Hyacinth√		
8	Visible effluent discharges in proximity	Industrial			Municipal sewage √			None √					
9	Human activities around the station	Cattle wading √			Tourism spot			Fishing		Bathing √		Other	
10	Location details	U/s of town or			D/s of town or			Pilgrim center/Bathing			None		
11	Flow rate	m ³ /s											
12	Major polluting source	Industrial effluent			MSW √		PW√		None		Other		
13	Uses of water in downstream	Irrigation√			Drinking water source √			Fishing		Domestic			
		Organized water source			Cultivation√		Bathing Ghat		Others				

Sl.No	Determinant	Value
1	Temperature, °C	27
2	Dissolved Oxygen, mg/l	6.9
3	pH	7.8
4	Conductivity, µmhos/cm	773
5	BOD, mg/l	1.6
6	Nitrate-N, mg/l	0.3
7	Turbidity, NTU	BDL
8	Phenolphthalein Alkalinity, as CaCO ₃ mg/l	BDL
9	Total Alkalinity, as CaCO ₃ mg/l	276
10	Chloride, mg/l	144
11	COD, mg/l	20
12	TKN, mg/l	BDL
13	Ammoniacal-N, mg/l	BDL
14	Hardness, as CaCO ₃ mg/l	324
15	Calcium, as CaCO ₃ mg/l	120
16	Magnesium as CaCO ₃ , mg/l	204
17	Sulphate, mg/l	12.4
18	Calcium (Ca ²⁺), mg/l	48.1
19	Magnesium (mg ²⁺), mg/l	49.572
20	Sodium, mg/l	71
21	Total Dissolved Solids, mg/l	502
22	Total Fixed Solids, mg/l	325
23	Total Suspended Solids, mg/l	10
24	Phosphate, mg/l	BDL
25	Boron, mg/l	BDL
26	Potassium, mg/l	8
27	Fluoride, mg/l	0.3
28	Total Coliform, MPN/100 ml	45600
29	Fecal Coliform, MPN/100 ml	39200
30	Fecal streptococci , MPN/100 ml	760
31	% Sodium	31.60
32	SAR	1.72

POLLUTED RIVER STRETCH MONITORING PROGRAM (DECEMBER 2025)													
Station Name		RIVER KALPATHY AT MUKKAI CAUSEWAY (Upstream)											
Type of Water body		RIVER											
Completed by		DO, PALAKKAD											
Agency		Kerala State Pollution Control Board											
1	Station Code	P	R	_	2								
2	Date and time of sample taken (DD/MM/YY, HH/MM)	12/1/2025											
		1	1	:	2	0							
3	Weather	Cloudy			Clear√			Windy			Raining		
4	Approximate depth of main stream	< 50 cm			50 – 100 cm √			>100 cm			Flood		
5	Color & Intensity	Clear √			Turbid			Green			Brown		
		1 = Light			2 = Moderate √			3 = High					
6	Odour	None √			Fishy			H ₂ S			Other		
7	Floating Matter	Floating Algae√			Floating sludge			Oil & Grease			Water Hyacinth√		
8	Visible effluent discharges in proximity	Industrial			Municipal sewage			None √					
9	Human activities around the station	Cattle wading √			Tourism spot			Fishing		Bathing √		Other√	
10	Location details	U/s of town or industrial area			D/s of town or industrial area √			Pilgrim center/Bathing Ghat/Water intake			None		
11	Flow rate	m ³ /s											
12	Major polluting source	Industrial effluent			MSW		PW		None		Other √		
13	Uses of water in downstream	Irrigation√			Drinking water source √			Fishing		Domestic			
		Organized water source			Cultivation		Bathing Ghat		Others√				

Sl.No	Determinant	Value
1	Temperature, °C	27
2	Dissolved Oxygen, mg/l	7
3	pH	7.9
4	Conductivity, µmhos/cm	931
5	BOD, mg/l	2.2
6	Nitrate-N, mg/l	1.3
7	Turbidity, NTU	BDL
8	Phenolphthalein Alkalinity, as CaCO ₃ mg/l	BDL
9	Total Alkalinity, as CaCO ₃ mg/l	320
10	Chloride, mg/l	147
11	COD, mg/l	25
12	TKN, mg/l	BDL
13	Ammoniacal-N, mg/l	0.4
14	Hardness, as CaCO ₃ mg/l	324
15	Calcium, as CaCO ₃ mg/l	102
16	Magnesium as CaCO ₃ , mg/l	222
17	Sulphate, mg/l	11
18	Calcium (Ca ²⁺), mg/l	40.88
19	Magnesium (Mg ²⁺), mg/l	53.946
20	Sodium, mg/l	80
21	Total Dissolved Solids, mg/l	605
22	Total Fixed Solids, mg/l	360
23	Total Suspended Solids, mg/l	10
24	Phosphate, mg/l	0.14
25	Boron, mg/l	BDL
26	Potassium, mg/l	8
27	Fluoride, mg/l	0.2
28	Total Coliform, MPN/100 ml	44800
29	Fecal Coliform, MPN/100 ml	27600
30	Fecal streptococci , MPN/100 ml	840
31	% Sodium	34.24
32	SAR	1.93

POLLUTED RIVER STRETCH MONITORING PROGRAM (DECEMBER 2025)														
Station Name		RIVER KORAYAR AT MENONPARA BRIDGE (Upstream)												
Type of Water body		RIVER												
Completed by		DO, PALAKKAD												
Agency		Kerala State Pollution Control Board												
1	Station Code	P	R		3									
2	Date and time of sample taken (DD/MM/YY, HH/MM)	12/1/2025												
		0	1	:	1	5								
3	Weather	Cloudy			Clear✓			Windy			Raining			
4	Approximate depth of main stream	< 50 cm			50 – 100 cm ✓			>100 cm			Flood			
5	Color & Intensity	Clear ✓			Turbid			Green			Brown			
		1 = Light			2 = Moderate ✓			3 = High						
6	Odour	None ✓			Fishy			H ₂ S			Other			
7	Floating Matter	Floating Algae✓			Floating sludge			Oil & Grease			Water Hyacinth✓			
8	Visible effluent discharges in proximity	Industrial			Municipal sewage			None ✓						
9	Human activities around the station	Cattle wading ✓			Tourism spot			Fishing	Bathing ✓			Other		
10	Location details	U/s of town or industrial area			D/s of town or industrial area ✓			Pilgrim center/Bathing Ghat/Water intake			None			
11	Flow rate	m ³ /s												
12	Major polluting source	Industrial effluent			MSW		PW		None ✓		Other			
13	Uses of water in downstream	Irrigation✓			Drinking water source ✓			Fishing		Domestic				
		Organized water source			Cultivation		Bathing Ghat		Others✓					

Sl.No	Determinant	Value
1	Temperature, °C	27
2	Dissolved Oxygen, mg/l	7.6
3	pH	7.9
4	Conductivity, µmhos/cm	1088
5	BOD, mg/l	1.7
6	Nitrate-N, mg/l	1.2
7	Turbidity, NTU	BDL
8	Phenolphthalein Alkalinity, as CaCO ₃ mg/l	BDL
9	Total Alkalinity, as CaCO ₃ mg/l	300
10	Chloride, mg/l	146
11	COD, mg/l	26
12	TKN, mg/l	BDL
13	Ammoniacal-N, mg/l	BDL
14	Hardness, as CaCO ₃ mg/l	386
15	Calcium, as CaCO ₃ mg/l	110
16	Magnesium as CaCO ₃ , mg/l	276
17	Sulphate, mg/l	26.4
18	Calcium (Ca ²⁺), mg/l	44.09
19	Magnesium (mg ²⁺), mg/l	67.068
20	Sodium, mg/l	79
21	Total Dissolved Solids, mg/l	707
22	Total Fixed Solids, mg/l	450
23	Total Suspended Solids, mg/l	10
24	Phosphate, mg/l	0.06
25	Boron, mg/l	BDL
26	Potassium, mg/l	8
27	Fluoride, mg/l	0.4
28	Total Coliform, MPN/100 ml	40000
29	Fecal Coliform, MPN/100 ml	24200
30	Fecal streptococci , MPN/100 ml	780
31	% Sodium	30.25
32	SAR	1.75

POLLUTED RIVER STRETCH MONITORING PROGRAM																	
Station Name			RIVER KORAYAR AT NARAGAMPALLY (Downstream)														
Type of Water body			RIVER														
Completed by			DO, PALAKKAD														
Agency			Kerala State Pollution Control Board														
1	Station Code		P	R		4											
2	Date and time of sample taken (DD/MM/YY, HH/MM)		12/1/2025														
			1	2	:	2	0										
3	Weather		Cloudy				Clear√				Windy				Raining		
4	Approximate depth of main stream		< 50 cm				50 – 100 cm √				>100 cm				Flood		
5	Color & Intensity		Clear √				Turbid				Green				Brown		
			1 = Light				2 = Moderate √				3 = High						
6	Odour		None √				Fishy				H ₂ S				Other		
7	Floating Matter		Floating Algae√				Floating sludge				Oil & Grease				Water Hyacinth√		
8	Visible effluent discharges in proximity		Industrial				Municipal sewage				None √						
9	Human activities around the station		Cattle wading √				Tourism spot				Fishing		Bathing √		Other		
10	Location details		U/s of town or industrial area				D/s of town or industrial area √				Pilgrim center/Bathing Ghat/Water intake				None		
11	Flow rate		m ³ /s														
12	Major polluting source		Industrial effluent				MSW		PW		None √		Other				
13	Uses of water in downstream		Irrigation√				Drinking water source √				Fishing		Domestic				
			Organized water source				Cultivation		Bathing Ghat		Others√						

Sl.No	Determinant	Value
1	Temperature, °C	29
2	Dissolved Oxygen, mg/l	6.5
3	pH	7.8
4	Conductivity, µmhos/cm	517
5	BOD, mg/l	1.6
6	Nitrate-N, mg/l	0.2
7	Turbidity, NTU	BDL
8	Phenolphthalein Alkalinity, as CaCO ₃ mg/l	BDL
9	Total Alkalinity, as CaCO ₃ mg/l	198
10	Chloride, mg/l	147
11	COD, mg/l	22
12	TKN, mg/l	BDL
13	Ammoniacal-N, mg/l	BDL
14	Hardness, as CaCO ₃ mg/l	340
15	Calcium, as CaCO ₃ mg/l	162
16	Magnesium as CaCO ₃ , mg/l	178
17	Sulphate, mg/l	48.4
18	Calcium (Ca ²⁺), mg/l	64.93
19	Magnesium (Mg ²⁺), mg/l	43.254
20	Sodium, mg/l	72
21	Total Dissolved Solids, mg/l	460
22	Total Fixed Solids, mg/l	310
23	Total Suspended Solids, mg/l	10
24	Phosphate, mg/l	0.04
25	Boron, mg/l	BDL
26	Potassium, mg/l	7
27	Fluoride, mg/l	0.3
28	Total Coliform, MPN/100 ml	39200
29	Fecal Coliform, MPN/100 ml	35200
30	Fecal streptococci , MPN/100 ml	720
31	% Sodium	30.98
32	SAR	1.7

KADALUNDY								
1 2. Malappuram Municipality - Short Term Solid & Liquid Waste Management Action Plan								
No.	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% of works completed	Details of works remaining
1.1	Slaughter house and Poultry house	Malappuram Municipality	April 2025	Land occupied and land clearance	Land occupied and land clearance		Land in ward I	NA
1.2	Valiyathodu Cleaning - 8 Km length	Malappuram Municipality	Completed	Cleaned	Cleaned		50%	Work ongoing
1.3	Installation of screening net in the Valiyathode	Malappuram Municipality	December 2019	Installed	Installed		100	NA
1.4	Identification of polluting points in Kadalundi river & awareness campaign - River walk(puzha nadatham – 15 km length)	Malappuram Municipality	Completed	Completed	Completed		100	NA
1.5	Sanitation facility and treatment of waste water in the markets - Treatment plant	Malappuram Municipality	building construction under process	New building construction process-progress	New building construction process-progress		50%	New Building Constructi on Progress
1.6	The discharge of waste water from the surrounding houses to the Valiyathodu -Blocking of discharge of liquid waste	Malappuram Municipality	Completed	Completed	Completed		100%	Enforcement activities conducted in regular intervals
1.7	Identification of illegal outlets into storm water drains and fine imposed on such units.	Malappuram Municipality	Ongoing	Inspection continuing	Inspection continuing		Inspection continuing & action taken	completed
cc	Biodegradable waste Bio bins – 376 Bucket compost – 269 Thumboormuzhi Aerobic bins - 9(schools) Biogas plant -55 Ring compost unit -6000,	Malappuram Municipality	March 2020 March 2020 March 2020 March 2020	Completed	Completed		100 % 100 % 100 %	Completed Completed Completed
1.9	Non biodegradable waste MCF Plastic shredding and Bailing New mcf	Malappuram Municipality	March 2020 Completed March 2020	Completed	Completed		100%	NA
1.1	Identification and monitoring of illegal activities CC tv Network installation	Malappuram Municipality	March 2020	Completed	Completed		Nil	NA

2.Kerala State Pollution Control Board

		KADALUNDY								
1	2. Malappuram Municipality - Short Term Solid & Liquid Waste Management Action Plan									
No.	Activity	Implementing agency	Time line		Status as on October 2025	Status as on November 2025	Status as on December 2025	% of works completed	Details of works remaining	
No.	Activity	Implementing agency		Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% of works completed	Details of works remaining	
2.1	River water quality Monitoring- Thirurangadi, Hajiypally National Water Quality Programme(NWMP)	KSPCB		Ongoing; Monthly frequency	Ongoing monthly frequently			100%		
2.2	River water quality Monitoring - Thirurangadi, Kooriyad, Manikut, Hajiypally, Anakkayam, Oravambrum - State Water monitoring programme (SWMP)	KSPCB		Ongoing; Seasonal - Pre -monsoon, monsoon, post -monsoon	Ongoing monthly frequently			100%		
2.3	Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc. in Malappuram Municipal area	KSPCB		Ongoing; Interval; Red – 1 month, Orange- 3 months, Green- 6 months	Ongoing			100%		
3.Ground Water Department										
No.	Activity	Implementing agency		Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining	
3.1.	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks (Earlier status : As per Groundwater resources of Kerala, 2017 estimate a total number of 3 blocks (Mankada, Vengara and Malappuram) comes under the Kadalundi river basin. Out of three blocks Malappuram and Vengara are semi-critical blocks and the rest is a safe one, stage of groundwater extraction ranges from 69.43 % to 79.84%) As per Groundwater resources of Kerala, 2022,the three blocks namely, Mankada,Vengara and Malappuram blocks are semi-critical.	Ground water Department			Groundwater extaction for industrial purpose (Packaged drinking water Units) is restricted in the semi critical blocks having stage of groundwater extraction is more than 80%). Only limited extaction (upto 2500 LPD) is allowed.			% of works completed cannot be mentioned.	NA	

		KADALUNDY								
1	2. Malappuram Municipality - Short Term Solid & Liquid Waste Management Action Plan									
No.	Activity	Implementing agency	Time line		Status as on October 2025	Status as on November 2025	Status as on December 2025	% of works completed	Details of works remaining	
3.2	Ground water recharging / rain water harvesting (Earlier status : The average pre -monsoon groundwater level ranges from 7.59mbgl - 13.57 mbgl. Groundwater Department has implemented 3 no of roof top rain water recharging through recharge pit schemes in Vengara block.)	Ground water Department			Malappuram-1 recharge pit, 10 OW recharge Mankada-1pit, 4 OW, 1 Pond rennovation. Vengara- 3 pit, 1 OW Kondotty-5 pit, 1 OW Tirurangadi-2 pit,2 OW Vallikkunnu-1 pit			% of works completed cannot be mentioned.	NA	
3.3	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps (Earlier status : Groundwater Department has 6 observation dug wells and 14 bore wells in the river stretch. (report attached) (Map No: 7 attached))	Ground water Department			Water quality analysis from observation wells are carrying out four times in every year.			% of works completed cannot be mentioned.	NA	
3.4	For regulating use of ground water for irrigation purpose, adopting good irrigation practices (Earlier status : The total irrigation draft in the area ranges from 979.683 - 1857.49 ha.m.)	Ground water Department			Pumping test is carrying out in irrigation wells and safe yield is calculated. By this, pumping is regulated.			% of works completed cannot be mentioned.	NA	

		TIRUR						
	2 IRRIGATION DEPARTMENT							
No.	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
1.1.1	Strengthening the right side bund of Tirur- Ponnani puzha at Porur, ward no.I Tirur Municipality	Irrigation Department	6 Months	Work completed			Work Completed. Bill Paid (Rs 2984168/- including GST)	Remarks-These two works are arranged as single work named as
1.1.2	Cleaning and development of old Ponnani thodu at Thazhepalam	Irrigation Department	6 Months	Work completed			100%	"General-National Green Tribunal-Rejuvenation of polluted rivers-Tirur-Ponnanippuzh a-General Civil work"amounting Rs 30.10 L . Work Completed. Bill Paid (Rs 2984168/- including GST)

1.1.3	Repair and Rehabilitation of Koottayi Regulator cum Bridge across Thirur-Ponnani Puzha in Mangalam Grama panchayatin Malappuram Dist	Irrigation Department	18 Months	0%. Civil work still stand due to issue in site.	Civil work still stand due to issue in site.	8%	More damages to the Apron and river bed has seen at site and work can't be continued using existing original estimate. Also Cracks on girders and settlement of 4 piers towards right bank has seen on 18/11/2023. So the work can be continued only after addressing the present issues. So while preparing the estimate based on the study report from KERI Peechi, the solution for the new issues also has to be finalised. Meeting held on 29/11/2023 at the office of CE I&A in the presence of CE IDRB concluded to conduct a detailed technical study by an expert team. A Technical committee has been formed as per order number GO No.488/2024/WRD dated 28-06-2024. Technical committee team visited the site on 08.08.2024. As per the suggestion from technical committee,hydrographic survey conducted and drawings submitted to technical expert committee. Based on the meeting minutes of the Technical Expert Committee, DPR of 18.10crores of the recast estimate (IRR/IA/EST/7734/2024_5_1_1) has been submitted to CE, I&A on 31.05.2025. The project can be resumed only if the recast estimate is approved and

3	4 TIRUR MUNICIPALITY – SHORT TERM ACTION PLAN							
No.	Activity	Implementing agency	Time line	Progress in the month of October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
1.2.1	Provide septic tank for nearest houses	Tirur Municipality	Dec 2019	completed			100%	completed
1.2.2	Establishment of Solid waste Treatment Plant ThumboorMozhi Model Aerobic Bin	Tirur Municipality	March 2020	completed			100%	completed
1.2.3	Establishment of Non Degradable waste treatment Plant Resource Recovery facility Centre Plastic Shredding Unit Segregation shed	Tirur Municipality	March 2020	completed			100	completed
1.2.4	Slaughtering House	Tirur Municipality	December 2020	Renovation Work ongoing			80%	Work ongoing
1.2.5	Fencing on Bridgeside Thalakkadathur Bridge	Tirur Municipality	December 2020	completed			100	completed
1.2.6	Installation of CCTV Camera near the river Bank Thalakkadathur Bridge	Tirur Municipality	May 2020	Keltron was invited to tender for Rs.5 lakh.Keltron was not ready to take over due to the low amount.Local tender is being invited			NA	Keltron was invited to tender for Rs.5 lakh.Keltron was not ready to take over due to the low amount.Local tender is being invited
1.2.7	Planting of Bamboo seedlings on the river bank (Thazhepalam)	Tirur Municipality	June 2020	completed			100%	Ongoing
1.2.8	Renovation of Effluent treatment plant at fish Market AMC Granted ETP with Aerobic System	Tirur Municipality	June 2019	completed			100%	completed
1.2.9	Setting up of STP at Private Bus stand	Tirur Municipality	June 2020	completed			100	completed

1.2.10	Setting up of a new drain after demolishing the old one. The old one was the hub of the waste water outlet of the shops and other establishments. The proposed drain is constructing in the middle of the road so as to avoid intrusion of pipes from outside	Tirur Municipality	June 2020	completed			100%	completed
1.2.11	Identification of illegal outlets into storm water drains and fine shall be imposed on such units	Tirur Municipality		completed			100%	Ongoing
5	6 Cheriyamundam Grama panchayat							
No.	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
1.3.1	Fencing on bridge side Thalakkadatur	Cheriyamundam Grama panchayat	March 2020	Completed			100	Completed
	4. Kerala State Pollution Control Board							
No.	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
1.4.1	River water quality Monitoring- Thalakkadathur National Water Quality Programme (NWMP)	KSPCB	Ongoing; Monthly frequency	Ongoing; Monthly frequently				
1.4.2	River water quality Monitoring State Water monitoring programme (SWMP)	KSPCB	Ongoing; Seasonal	Ongoing				
1.4.3	Inspection and effluent quality monitoring of the flats, Industrial units, Service stations, hospitals, auditorium, hotels in Municipal area		Ongoing; Interval; Red – 1 month, Orange- 3 months, Green- 6 months	Ongoing				
No.	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining

1.5.1.	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks (Earlier status : As per Groundwater resources of Kerala, 2017 estimate a total number of 2 blocks (Tirur and Kuttippuram) comes under the Tirur river basin. These two blocks are semi-critical blocks and the stage of groundwater extraction ranges from 77.75 % to 77.92%)	Ground water Department		Groundwater extaction for industrial purpose (Packaged drinking water Units) is restricted in the semi critical blocks having stage of groundwater extraction is more than 80%. Only Soda & Soft Drinks having limited extaction (upto 2500 LPD) is allowed.			% of works completed cannot be mentioned.	NA
1.5.2	Ground water recharging / rain water harvesting (Earlier status : The average pre -monsoon groundwater level ranges from 6.14mbgl - 8.49 mbgl.)			Kuttippuram-4 OW Recharge Tirur-1 recharge pit			% of works completed cannot be mentioned.	NA
1.5.3	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or handpumps (Earlier status : No observation well along the river stretches)			Water quality analysis from observation wells are carrying out four times in every year.			% of works completed cannot be mentioned.	
1.5.4	For regulating use of ground water for irrigation purpose, adopting good irrigation practices (Earlier status : The total irrigation draft in the area ranges from 49.14 - 870.97 ha.m.)			Pumping test is carrying out in irrigation wells and safe yield is calculated. By this, pumping is regulated.				
	6. ACTION PLAN BY VARIOUS GRAMA PANCHAYATHS- Thalakkad, Vettom, Mangalam							
No.	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
1.6.1	Protection of Thirur Ponnani River	Thalakkad grama panchayath handover fund to District Panchayat	31.03.2020	Completed			100	

1.6.2	Installation of CC TV camera on Yetterikadavu Kunjulikkadavu Mangattiri Bridge, Aikkanchiri Bridge, Paravanna Bridge	Vettom - KS SECURITY SYSTEM	Completed	Completed				
1.6.3	Installation of CC TV camera	Mangalam grama panchayath Win Plus Agency, Kondotty	Completed	Completed			100	
1.6.4	Haritha Keralam Thirur-Ponnani puzha protection	Mangalam grama panchayath Nirmithi Kendra, Kozhikkodu	31.03.2020	Completed			100	

	KALLAYI							
	Kozhikode Corporation							
No.	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
1	Identification of illegal outlets into storm water drain and issue Notice to such units	Kozhikode Corporation	30.12.2020	Continuing random inspections and imposing fine regularly. The ULB has executed an agreement with the KCCL & AIPPL - (JV)on 21.05.2025 to execute a 15 MLD at West Hill Industrial Estate, in the DBOT mode. The SHPSC meeting held on 27.10.2025 has approved the administartive sanction of this project for 166.66 Cr. The payment to the PCB for Consent to Establish was made on 30.09.2025, and the details have been submitted to the PCB office, Kozhikode. Final approval is awaited. Since the site falls under the CRZ, all supporting documents have been prepared as per the directions of the KCZMA, and the scrutiny fee to KCZMA wasmade on 06.10.2025. Once the PCB consent is received, the proposal will be submitted to KCZMA for approval.	The ULB has executed an agreement with the KCCL & AIPPL - (JV)on 21.05.2025 to execute a 15 MLD at West Hill Industrial Estate, in the DBOT mode. The SHPSC meeting held on 27.10.2025 has approved the administartive sanction of this project for 166.66 Cr. CRZ map preparation has been completed. The preparation of the EIA Report, Risk Assessment Plan and Disaster Management Report was completed on 30.09.2025. The CRZ consent fee and PCB consent fee were paid on 30.09.2025. The consent to establish was received from the PCB on 28.11.2025. The details will be submitted to the KCZMA for CRZ consent by 09.12.2025		Continuing random inspections and imposing fine regularly	On going
2	Waste to energy project proposed at Njeliyamparamba	KSIDC	30.06.2021	Project dropped	Project dropped			Not reported
3	Establishment of Aerobic compost units 24 units established in 6 sites	Kozhikode Corporation	Completed and functioning	Completed and functioning	Completed and functioning		100%	

4	Segregation of solid waste at source level and treatment of house hold wastes 300 ring compost and 150 biogas plant installed	Kozhikode Corporation	30.06.2019	Completed	Completed		100% Coverage	
5	Setting up of rendering treatment plant for chicken stall wastes Installed in Thamarassery panchayath. Now waste is collected from 170 units	Fresh cut agency	on trial run	Rendering plant installed in Thamarassery Panchayath(Fresh cut rendering plant).Chicken waste generated from chicken stalls under Kozhikode corporations are being transported to rendering plant at Thamarassery. 217chicken stall handed over the chicken waste in in to fresh cut rendering plant	Rendering plant installed in Thamarassery Panchayath(Fresh cut rendering plant).Chicken waste generated from chicken stalls under Kozhikode corporations are being transported to rendering plant at Thamarassery. 217chicken stall handed over the chicken waste in in to fresh cut rendering plant		100% Coverage	Functioning
6	Implementation of Green protocol unit	Kozhikode Corporation	30.06.19	On going	On going			On going
7	Setting up of common STP of(13 MLD) 7.1 At Kothi bridge- 6 MLD plant proposed 7.2 At Avikkal -7 MLD plant proposed	Kozhikode Corporation	31.03.2020	Project dropped due to Public protest and court cases.	Project dropped due to Public protest and court cases.		Instead of 2 STPs (6 MLD at Kothi & 7 MLD at Avikkal) the ULB decided to construct a single STP of 15 MLD at West Hill Industrial Estate for covering the same areas. Hence instead of the Kothi & Avikkal STPs, the West Hill Industrial Estate STP can be shown in the MPR.	Agreement Executed.

8	Implementation of STP at Kottoli (13.5 MLD)	KWA		After receiving Council approval, the project was submitted to the Government for Administrative sanction. The AS was deferred and directed to revise the proposal to increase the number of connections. KWA is revising the proposal. The administrative sanction for constructing a 27MLD STP at Kottoli (Sarovaram) was received on 08.01.2024. Technical sanction is pending with the KWA	After receiving Council approval, the project was submitted to the Government for Administrative sanction. The AS was deferred and directed to revise the proposal to increase the number of connections. KWA is revising the proposal. The administrative sanction for constructing a 27MLD STP at Kottoli (Sarovaram) was received on 08.01.2024. Technical sanction is pending with the KWA		Work award pending	27 MLD STP with 220 KLD FSTP as co-treatment with 54 km network
9	Cleaning of Canoli canal	Kozhikode Corporation	20.07.2019	Periodical cleaning	Periodical cleaning			Continuous - seasonal
10	Purchasing of Solar Boat for Canoli canal cleaning	Kozhikode Corporation	31.03.2020	Project dropped	Project dropped			Project dropped
11	Installation of CCTV Camera for the Identification and monitoring of illegal activities	Kozhikode Corporation	31.03.2020	Ongoing	Ongoing			On going
12	Establishment of Mobile Septage Units	Kozhikode Corporation	31.03.2020	Project dropped	Project dropped			Project dropped
13	Action taken against dumping of wastes into river and public places	Kozhikode Corporation	Continuing	Continuing random inspections and imposing fine regularly	Continuing random inspections and imposing fine regularly		Continuing random inspections and imposing fine regularly	Continuous
14	Cleaning of B.K canal	Kozhikode Corporation	31.03.2020	Completed	Completed		100%	
15	Establishment of treatment plant at Medical college (3 MLD plant) Tender over 14.1 - 2 MLD plant proposed 14.2 - 1 MLD plant proposed	Kozhikode Corporation	31.03.2020	Completed and functioning.	Completed and functioning.		100%	Functioning
16	Construction of drains at Y.M.RC Ayyankar colony	Kozhikode Corporation	31.03.2020	95% completed	90% coverage		95%	Processing
17	Treatment facility for waste water in Central market	Kozhikode Corporation						New project under consideration
18	Establishment of comfort stations	Kozhikode Corporation					On going - Continuous process	Continuous

19	Provide facility for MRF,RRF, Super MRF 3 units existing 19.1 Njeliyanparamb 19.2 Industrial estate 19.3 Meyor bhavanjayanthinagar colony	Suchitwa Mission	Project in progress	3.MRFand 5.MCFare already existing. New project going on.	3.MRFand 5.MCFare already existing. New project going on.			
20	Identification of illegal outlets from house to storm water drain and issue Notice to such Houses	Kozhikode Corporation		On going - Continuous process	On going - Continuous process		Ongoing - continuous process	Continuous
21	Establishment of Plastic shredding unit	Kozhikode Corporation	Project started	Project started	Project started			
22	Establishment of slaughtering unit	Kozhikode Corporation		Project under Consideration	Project under Consideration		Project under Consideration	Not reported
23	Cleaning of drains in Kozhikode Town	Kozhikode Corporation	Ongoing	On going - Continuous process	On going - Continuous process			Continuous
Perumanna Grama Panchayath								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
1	Outlets into storm Water drain and issue notice	Perumanna Panchayat, kozhikode	Continues process	Inspection conducting regularly	Inspection conducting regularly		Continuous	
2	Establishment of six aerobic compost units in panchayat	Perumanna Panchayat , Kozhikode through MGNREGS	12/2021	Work completed(100% coverage)	Work completed(100% coverage)		100% coverage	completed
3	Collection and segregation of solid waste in the river	Perumanna Panchayat	Continues process in every year	Work completed	Work completed		completed	
4	Setting up of residential treatment plant for chicken stall waste	Perumanna Panchayat	Continues procesS					

5	Setting up of 360 soak pit plant in all houses near the river area and panchayat	Perumanna Panchayat through MGNREGS	12/2021	Progressing 80% completed	Progressing 80% completed		80% completed	Processing
6	Implementation of 360 compost unit near river side and panchayat	Perumanna Panchayat , Kozhikode through MGNREGS	12/2021	Progressing 80% completed	Progressing 80% completed		80% completed	Processing
7	Implementation of water flow project (Aluvangal Thazham Perumbatta Elamanapadam, Valiyapadam.Mampuzhthode Naveekarana, project no 260/2021 project cost 16.67 Lakhs).	Perumanna Panchayat	12/2021	Technical sanction obtained. Tender procedure completed.	Technical sanction obtained. Tender procedure completed.			
8	Cleaning of Mambuzha river (project name : Mambuzha water flow restoration, project no 01/2018-19	District Panchayat , Kozhikode	2018 -2019	Work has been completed by District Panchayat, Kozhikode	Work has been completed by District Panchayat, Kozhikode		Completed.	
9	Establishment of 18 nos of mini MCF in different wards including Payyadi methal where the river is flowing	Perumanna Panchayat , Kozhikode through MGNREGS	12/2021	Completed.	Completed.		Completed.	
10	Collection of plastic Waste from the river	Perumanna Panchayat	Continuous process	Process will be done every year	Process will be done every year		Continous	Continous
Peruvayal Grama Panchayath								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of work remaining
1	Outlet in storm water drain and issued notice	Peruvayal G P	Continuous process	Ongoing	Ongoing		Ongoing	Continous
2	Establishment of 56 units anaerobic composed unit in panchayat.	Peruvayal GP through MGNREGS	04/2023 to 03/2021	Ongoing	Ongoing		Ongoing	Continous process
3	Setting up of rendering plant for chicken solid waste	Peruvayal G P	Continuous process					
4	Setting up of 379 soak pit plant in all houses	Peruvayal G P	04/2023 to 03/2024	Completed	Completed		Completed	Completed

5	Cleaning of Mambuzha river (Mambuzha renovation) project no :190/2017 -18	District panchayat Kozhikode	2017 -2018	Completed	Completed		Completed	
6	Establishment of 8 numbers of mini MCF	Peruvayal GP through MGNREGS	04/2023 TO 03/2024	80% completed	80% completed		80% completed	No further progress reorted
7	Collection of plastic waste from the river	Peruvayal G P	Continuous process	Work completed	Work completed		Work completed	
8	Collection and segregation of solid waste in the river	Peruvayal GP	Continuous process	Ongoing	Ongoing		Ongoing	Continous process
9	Establishment of Bio gas plant	Peruvayal G P	2023 -24	Work completed (70% coverage)	Work completed (70% coverage)		Work completed (70% coverage)	No further progress reorted
10	Well recharge	Peruvayal GP through MGNREGS	2023 -24	Work completed (60% coverage) .	Work completed (60% coverage) .		Work completed (60% coverage) .	No further progress reorted
Mavoor Grama Panchayat								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of work remaining
1	Transportation of waste management to refinement unit	Konnari Advanced Polymers Limited	2022-23	Completed	Completed		100%	
2	Cleaning of Cherupuzha (Kuniyakadav to Thenghilakadav)	Mavoor GP	2022-23	Completed	Completed		100%	
3	Valayannor Thodu cleaning	MGNREGS	2022-23	Completed	Completed			
4	Arayancode kalchira Thodu Cleaning	MGNREGS	2022-23	Completed	Completed			
5	Vellaram Kandi Chirakkal thazham thodu	Mavoor GP	2023-24	Completed	Completed		100%	
6	Ring compost	Mavoor GP	2023-24	Completed	Completed			
7	Kadayan thodu	MGNREGS	2023-24	Completed	Completed		100%	

8	Chalippadam Punchappadam thodu	MGNREGS	2023 -24	Completed	Completed		100%	
9	Puthiyottil thazham Elaram thodu	MGNREGS	2023 -23	Completed	Completed		100%	
OLAVANNA GRAMAPANCHAYAT								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of work remaining
1	Collection of plastic waste from the river	Olavanna Gramapanchayat	Continuous process	Completed	Completed		Completed	
2	Collection of segregation of solid waste in the river	Olavanna Gramapanchayat	Continuous process	Completed	Completed		Completed	
3	Cleaning of Mambuzha river	Olavanna Gramapanchayat	Continuous process	Completed	Completed		Completed	
4	Well recharge	Olavanna Gramapanchayat through MGNREGS	4/2023 To 3/2024	Completed	Completed		100%	
5	Setting up of soak pit in houses	Olavanna Gramapanchayat through MGNREGS	4/2022 To 3/2024	Completed	Completed		100%	
6	Action taken against dumping of waste in to river	Olavanna Gramapanchayat	Continuous process	Process continuing	Process continuing		100%	Completed
7	Collection of non - biodegradable waste	Harith karma sena	Throughout the year	Process continuing	Process continuing		Process continuing	Continous
Irrigation Department								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining

1	Desilting of Kallayi river from Kaduppini to Kothi in Kozhikode Corporation	Irrigation department	31.03.21	Desiltation of Kallai river under urban agglomeration scheme SHO on 12.09.2024 and Dredging work started ,Work Completed 8%	Desiltation of Kallai river under urban agglomeration scheme SHO on 12.09.2024 and Dredging work started ,Work Completed 12%			
2	Provide fencing on the sides of the Bridge	Irrigation department	31.03.21	SHO on 22.08.2024 for providing chain linked fencing on Kothi bridge(Work in progress 30% completed) & SHO on 20.07.2024 for provididng chain linked fencing for Mooriyad road bridge(Work 100% completed)	SHO on 22.08.2024 for providing chain linked fencing on Kothi bridge(Work in progress 30% completed) & SHO on 20.07.2024 for provididng chain linked fencing for Mooriyad road bridge(Work 100% completed)			
3	Dredging, Desilting & removal of weeds from E K Canal (11.2 km)	Irrigation department	31.07.19	Work entrusted to Kerala Waterways & Infrastructure Ltd (KWIL). DPR for “Canal City Project “ under preparation	Work entrusted to Kerala Waterways & Infrastructure Ltd (KWIL). DPR for “Canal City Project “ under preparation			
4	Bio Park in Kozhikode District	Irrigation department		Land for the proposed bio park is to be demarcated by the Revenue authorities after necessary boundary survey and subsequent bio cover works are to be done by the Social Forestry Department	Land for the proposed bio park is to be demarcated by the Revenue authorities after necessary boundary survey and subsequent bio cover works are to be done by the Social Forestry Department			
5	Flood Prone Mapping in Kozhikode District	Irrigation department		Action to be taken by the Hydrology Wing of Irrigation Department as this needs data collection, scientific analysis and modelling skills	Action to be taken by the Hydrology Wing of Irrigation Department as this needs data collection, scientific analysis and modelling skills			
Kerala State Pollution Control Board								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining

1	River water quality monitoring- Kallayi river National Water Quality Monitoring Programme (NWMP)	KSPCB	Ongoing; monthly frequency	Process continuing	Process continuing		Ongoing; monthly frequency	
2	River water quality monitoring- Kallayi rivers State Water Monitoring Programme, KSPCB fund (SWMP)	KSPCB	Ongoing. Seasonal monitoring- pre-monsoon, monsoon, post-monsoon	Process continuing	Process continuing		Ongoing. Seasonal monitoring- pre-monsoon, monsoon, post-monsoon	
3	Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc . in Malappuram Municipal area	KSPCB	Ongoing Interval: Red-1month. Orange – 3 months. Green – 6 months.	Process continuing	Process continuing		Ongoing Interval: Red-1month. Orange – 3 months. Green – 6 months.	
Suchitwa Mission								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
1	Board displaying messages against dumping to be placed in river banks	Suchitwa Mission	15.07.19	Process continuing	Process continuing			
Action Plan by Ground Water Department								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks (Earlier status: As per Groundwater resources of Kerala, 2017 estimate ,Kozhikkode Block comes under the Kallai river basin and the block is safe with stage of groundwater extraction 68.49%)			As per Ground water resources of Kerala,2017 estimate, Kozhikode Block comes under the Kallai river basin and the block is safe with stage of ground water Extraction 68.49%	As per Ground water resources of Kerala,2017 estimate, Kozhikode Block comes under the Kallai river basin and the block is safe with stage of ground water Extraction 68.49%			

B(ii)	Ground water recharging / rain water harvesting (Earlier status : The average pre-monsoon groundwater level is 7.23mbgl. Groundwater Department has implemented 3 no of dug well recharge schemes at Kozhikkode block)			The average pre - monsoon ground water level is 7.23 mbgl. Ground water Department has implemented 3 no of dug well recharge schemes at Kozhikkode block	The average pre - monsoon ground water level is 7.23 mbgl. Ground water Department has implemented 3 no of dug well recharge schemes at Kozhikkode block			
B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps (Earlier status - Groundwater Department has 1 observation piezometer (BW)in the river stretch.)			Ground water Department has 1 observation Piezometer (BW) in the river stretch.)	Ground water Department has 1 observation Piezometer (BW) in the river stretch.)			
B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices (Earlier status - The total irrigation draft in the block area is 488.76 ha.m.)			The total irrigation draft in the Block area is 488.76 ha.m.)	The total irrigation draft in the Block area is 488.76 ha.m.)			
Action plan by irrigation Department								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
E	Dredging and desilting	Irrigation Dept	3 years	Desiltation of kallayi river under urban agglomeration. SHO on 12.09.2024 and Dredging work started, started Work Completed 10% (Work halt due to off season)	Desiltation of kallayi river under urban agglomeration. SHO on 12.09.2024 and Dredging work started, started Work Completed 10% (Work halt due to off season)		12%	
E	E-flow (by micro water shed management)	Irrigation Dept	3 years	Action to be taken by the hydrology wing of irrigation department as this needs data collection, scientific analysis and modeling skills. The matter has been communicated to the Hydrology wing Assistant Engineer at Kozhikkode.	Action to be taken by the hydrology wing of irrigation department as this needs data collection, scientific analysis and modeling skills. The matter has been communicated to the Hydrology wing Assistant Engineer at Kozhikkode.			

E	Flood plain zone (protection and management)	Irrigation Dept	3 years	Action to be taken by the hydrology wing of irrigation department. The matter has been communicated to the Hydrology wing.	Action to be taken by the hydrology wing of irrigation department. The matter has been communicated to the Hydrology wing.			
E	Greenery development (plant in trees on thebanks)	Irrigation Dept	3 years	Not reported	Not reported			Not reported



KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

കോഴിക്കോട് റീജണൽ ഓഫീസ്
REGIONAL OFFICE, KOZHIKODE

Phone: 0495-2300744 Mail: pcbrokkd@gmail.com Website: kspcb.kerala.gov.in

3rd FLOOR, ZAMORIN'S SQUARE, LINK ROAD, KOZHIKODE - 673 002



LIFE
LIVING IN FRESHWATER
Environment for
All

7/01/26

ANALYSIS REPORT OF RIVER WATER

Report No.	K	R	O	S	5	8	8	1	/	1 to 5	Date:	0	3	0	1	2	0	2	6	
Date of Sample Collection	1	0	1	2	2	0	2	5			Date of receipt of the sample	1	5	1	2	2	0	2	5	
Sampled by:	RL, KKD										Time	Hours:	0	4	:	0	0	PM		
Sampling Method	APHA1060B,a										Sample ID	KL1, KL2, KL3, KL5,& KL6								
Sample container	PC 2.5 L										Sample Lab Code	KROS :5881/1-5								
Source:	KALLAI RIVER WATER										Ref.letter No.	PCB/KKD/DO/ Polluted River Stretch/2018 Vol. IV. Dated 11.10.2025								
Specific sampling location:	KALLAI POLLUTED RIVER STRETCH										Received from:	EE,DO,KKD								
Sample preservation:	Ice box										Period of analysis:	15.12.2025-01.01.2026								
											No. of samples	5								
											Analysed by:	SNS/NSS/PVH/AJ								
											Method:Standard Methods for the examination of Water and Wastewater, APHA AWWA WEF (22 nd Ed.)									
sl no	Parameters			unit	Method No.			SAMPLE ID												
								KL 1	KL 2	KL 3	KL 5	KL 6								
1	pH			-	APHA 4500-H+,B			7.15	6.84	7.06	7.56	7.65								
2	CONDUCTIVITY			µmhos /cm	APHA 2510B			4610	15540	18910	31100	26000								
3	BOD			mg/L	IS3025 (Part 44)			0.67	1.27	1.27	1.13	0.53								
4	DISSOLVED OXYGEN			mg/L	APHA 4500-O,C			3.4	2.4	2.5	2.7	3.9								
5	TOTAL COLIFORM,			CFU/100ml	APHA 9222B			20000	10000	30000	20000	10000								
6	FECAL COLIFORM			CFU/100ml	APHA 9222D			8000	6000	12000	10000	4000								
7	FECAL STREPTOCOCCUS			CFU/100ml	APHA 9230 C			50	160	230	530	1300								
8	TEMPERATURE			°C	APHA 2550B			26	26	26	27	27								

Test method variation: None

Remarks: LDL-Lower Detection Limit BDL-Below Detection Limit

KL1-KALLAI RIVER AT PALATHUMKANDI BRIDGE,POKKUNNU,KL2-KALLAI RIVER AT KADUPPINI BRIDGE, K.L3- KALLAI RIVER AT MANKAVU BRIDGE, KL5- KALLAI RIVER AT KALLAI BRIDGE & KL6- KALLAI RIVER AT KOTHI BRIDGE, THEKKEPURAM .

Abul P
6/1/26
Scientist in charge

National Mission for Clean Ganga
Format for Submission of Monthly Progress Report by States/UTs
(Hon'ble NGT in the matter of OA No.673/2018 dated 06.12.2019)
RIVER KARAMANA, THIRUVANANTHAPURAM
ACTION PLAN FOR RIVER KARAMANA, KERALA - Dec 2025

1. Short Term Plan

Maintenance and de-bottle necking of existing sewerage network

No.	Activity	Implementing agency	Time line	Progress in the month of Aug 2025	Progress in the month of Sept 2025	Progress in the month of Oct 2025	% works completed	Details of works remaining
2.1.1	Pumping lines from the terminal pumping stations namely Kuriyathi, Pattoor, Kannammoola and Enchakkal pumping stations are to be connected directly to STP at Muttathara	Kerala Water Authority	May 2019				100%	Kuriathy Pumping line work Completed. Detailed Project Report of pumping line from Pattoor, Kannammoola and Enchakkal Pumping Station are under preparation, Administrative Sanction not yet received for this work.
2.1.2	Rehabilitation/upgradation of Thaliyal and Aranoor Sewerage Pump house by rehabilitation of existing well, construction of new well and grit chamber, installation of new pump Sets.	Kerala Water Authority	May 2020				100%	Completed
							100%	Work completed

2.1.3	5 MLD sewage treatment plant at Medical College	Kerala Water Authority	May 2020				100%	Work Completed.
2.1.4	Installation of adequate pumps in Mudavanmughal and Enchakkal pumping stations.	Kerala Water Authority	March 2020				100%	Work Completed.
2.1.5	DG sets in all lift and pumping stations – Mudavanmughal, Aranoor, Thaliyal, Kuriyathi, Pattoor, Kannammola, Pattom, Murinjapalam and Enchakkal	Kerala Water Authority	May 2020				100%	Work Completed.
2.1.6	Reconnect sewer at Rajaji Nagar, stop outflow of sewage into Amayizhanchanthodu, control storm water entry into sewer to avoid overflow in Thampanoor area. Sewage generated in Rajaji Nagar shall be diverted to main sewer line. Sewage generated in Thoppil area shall be diverted main sewer line	Kerala Water Authority	Dec 2020				100%	Work Completed.
2.1.7	Discharge of sewage in Parayilkadavu shall be stopped as there is	Kerala Water Authority	Completed				100 % completed	Works Completed.

	overflow of sewage reaches in houses having sewerage connection and this may lead to discharge of sewage into River Karamana.							
2.1.8	Divert the sewer line from the School compound of Government Karamana High School	Kerala Water Authority	Completed				100% completed	Work Completed.
2.1.9	Rehabilitation by laying new lines increasing size of undersized main and reconstruction by dilapidated manholes for the last 3 years	Kerala Water Authority	May 2020	0.1%			100%	Works completed – 75Nos. (Rs.15.41cr) AMRUT-44, State plan-28 MLA ADF/SDF-3
	Total works in progress/completed (76No.) Works dropped (2No.)						Dropped – 2 No. (Rs. 1.52cr.) State plan-2	Two works dropped due to not getting offers on repeated tenders and expiry of AS. Later it placed for AS in the State Plan and completed.
2.1.10	Extension of sewer network wherever technically feasible in new areas of existing blocks	Kerala Water Authority	May 2020		0%	0 %	99.3%	Works completed - 21 No. AMRUT-12, State plan-9 nos in which 2 nos. on-going) MLA ADF/SDF-1completed
	In progress/On-going (4No.)							
	Tendering/ To be arranged (1No.) Land acquisition -1 In progress-3					To be arranged	Land acquisition in progress-1Nos	Land acquisition process for all 4 works completed and land handed over to KWA and LA for the work of laying sewer trunk main from Murinjapalam towards Kannammoola - Joint site inspection of the site by KWA officers

								and LA Tahsildar were conducted on 27.02.24 for assessing the land value. LA 11(1) LA in progress Final stage. Revised AS obtained in state plan 2021-22, - 2.36 Cr demanded. Remittance of 2.36cr completed in 3 phase. Balance AS amount for Rs.49.68Lakhs as per the revised demand from Spl. TahsildarAdministrative Sanction is obtained for this vide proceedings no. KWA-JB/4401/2024-AE1 PIU1 KWA-Part (2) dated 22.02.2025. Action is being taken to settle the matter. And land handed over to KWA AS obtained for arranging the work under State Plan 22-23 and one work arranged and one tendered.This tendered work re-casted and placed under State Plan 2022-23, AS received and tendered. Agreement Executed and pipe supplied and work in progress -50% completed. Killi River Crossing permission obtained. River crossing pipe laying delayed due to rain and restarted the same on 29.01.2025. Work 58% completed. Four pile caps under construction. Work will be completed within 60 days. Box culvert work 100%completed. For another work 26% completed. No further progress in the work by the contractor after March 2024. The contractor steps back from contract. Recommended to terminate the work and arrange the work at risk and cost. But, now the contractor restarted the work. Trial HDD done. Delay occurred due to pubic protest for changing the alignment. Work will be completed within 30 days.
2.1.11	Procurement of sewer cleaning machines and equipment maintenance	Kerala Water Authority	Mar 2020	0%	0%	0%	100%	Work Completed.

1. **Long Term Works**

Sl No.	Long term measures proposed	Implementing agency	Amount Required (Rs.in Crore)	Time line	Progress in the month of January	Progress in the month of February	% works completed	Details of works remaining
3.1.1	Extension of sewerage system to Block F to G coastal belt	Kerala Water Authority	5000	Three years				Consultant appointed for preparing Detailed Project Report for uncovered wards of the Thiruvananthapuram Corporation and Rehabilitation of the existing system was terminated from the contract due to breach of contract by the firm vide Proceedings No.KWA/SE/SEW/EOI/REPL/338/2020-2021 of the Superintending Engineer, Sewerage Circle, Kerala Water Authority Thiruvananthapuram dated 31.05.2022 to arrange the balance work at their risk and cost. As directed in the Chief Secretary, GoK's meeting dated 21/06/2022 to do the Preparation of DPRs internally, action taken accordingly. Meanwhile the terminated firm M/s REPL filed a complaint against KWA in the Hon'ble High court of Kerala (WP(C) No 26031 of the year 2022) and obtained a stay against KWA at first up to 22.08.22 which is then got extended up to 14.09.22 against taking any coercive actions. DPR preparation of sewerage system to the uncovered areas of TMC is now being carried out internally by KWA. The total
3.1.2	Extension of sewerage system to Block H to R							
3.1.3	Extension of sewerage system to newly added areas of corporation viz,							
3.1.4	Providing sewerage system in Block A to E							
3.1.5	Rehabilitation of existing Network and pump house in block A to E							
3.1.6	Procurement of equipment for maintenance of sewerage system.							

3.1.7	Additional STP requirement						wards were divided in to 10 clusters. Cluster 1 comprises of 5 wards - Attukal, Kalady, Kallipankulam, Ambalathara and kamaleswaram wards – The DPR for Cluster 1 was submitted on 13/10/2022 for AS. Later as per the direction of Secretary Thiruvananthapuram Corporation the DPR for Cluster 1 was revised including Zone 1&5 for Rs.91.00Cr and Zone 3&4 for Rs.66.50Cr and was submitted to Corporation on 28.12.2023 for getting AS under UIDF. AS received for thesetwo works and workstendered. As the two bidders who quoted for the Tender of Cluster 1- (ZONE-III Kalady Part) and (ZONE-IV - Attukal Part) was disqualified the tender was cancelled and retendered the work. Two bidders participated in the tender and they failed in prequalification process, hence work retendered. Three bidders participated for the tender and prequalification is under process. In case of Cluster I zone I&V,also the two bidders who quoted the tender were disqualified. Estimate re-casted and TS issued. Corporation directed to separate Zone I and tender the work and prequalification is under process. Cluster 3, which was originally consisting of Thiruvallam, Poonkulam and Vellar is the second in the priority list and was taken up. This Cluster is then modified by adding more wards and is divided into 3 zones. Zone 1 of cluster 3 is consisting of Puthenpally and Part of Muttathara (until STP) was taken up on priority based on the demand of Thiruvananthapuram Corporation. DPR of Cluster 3 Zone 1, Puthanpalli ward for 1.5 MLD Sewerage network with 5 year O&M and without centage

								submitted to Corporation under AMRUT2.0 on 11/1/23. The DPR of Cluster 3 Zone 2 and Zone 3 is prepared and submitted on 21.01.2023. The DPR for cluster 2 submitted on 27.02.2023 and is verified and kept in Shelf. The DPR for cluster 4 (Thirumala Thrikkannapuram and Punnakkamughal wards) is prepared and submitted on 30.03.2023 with pvt land. And assuggested for identifyingCorporation/Govt. landsfor the collection well and STP proposed is being done and after obtaining sanction of the Puramboke land identified, there will be changes in the design of network and action being taken to revise the estimate accordingly. DPR for Cluster IX(priority wards (Vizhinjam and Harbour area) completed and submittedon 29.09.2023. Land for STP identified and the confirmation of land not yet received. DPR of cluster X comprising of wards Shangumugham, Vettucaud, Vallakadavu , Beemapalli (part), Beemapalli East (part), Valiyathura and Kadakampally is under preparation. DPR forCluster 3 Zone 1&3 estimate revised and submitted the same To Corporation for getting AS under UIDF.
	Total Amount		5000Crs.					

- Works other than that listed in Short Term Action Plan, completed /ongoing in Karamana River Stretch is attached herewith for perusal.

Chief Engineer (Sewerage PPD& WASCON)

WORKS UNDERTAKEN AS PART OF ACTION PLAN

STATE PLAN 2021-22

SI No.	Name of Work	Implementing office	Source of fund	Time line	Status
1	TSS - Providing and laying 300mm dia main and 200mm SW branch sewer line towards Sreekrishna Nagar infront of Jagathy School in Jagathy Kochar Road	Sewerage Division, KWA, Trivandrum	State Plan		Completed
2	TSS –Reconstruction of old dilapidated brick manholes with R C C and Raising of manhole covers in the Central R C area under Sewerage Section , Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan		Completed
3	TSS - Reconstruction of old dilapidated brick man holes, Raising of man holes and Replacement of RCC Covers with CI covers at Thaliyil and Karuvalikkunnu area under Sewerage Section 2	Sewerage Division, KWA, Trivandrum	State Plan		Completed
4	TSS - Reconstruction of old dilapidated brick man holes and raising of man holes at Enchakkal Sreevaraham area under Sewerage Section I, Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
5	TSS - Reconstruction of old dilapidated brick man holes, Raising of man holes and Replacement of RCC Covers with CI covers at Poojappura and Arannoor area	Sewerage Division, KWA, Trivandrum	State Plan		Completed
6	TSS –Reconstruction of old dilapidated rick manholes with R C C and Raising of manhole covers in the West R C area under Sewerage Section , Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan		Completed
7	TSS - Urgent construction of compound wall and fencing at Karuvalikkunnu Sub section office compound	Sewerage Division, KWA, Trivandrum	State Plan		Completed
8	Renovation of Puthenkotta Sub Section Office and construction of compound wall, reconstruction of damaged compound walls with barbed wire fencing protection at Kuriathy pumphouse premises and Arannoor pumphouse under Sewerage Section II,Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed

9	TSS -Zone II - Laying 600mm dia RCC NP3 pipe sewer main towards Edapazhanji Chithra nagar (IV th reach) Chainage 2738 m to 2908 m for land acquisition cost	Sewerage Division, KWA, Trivandrum	State Plan		Completed
10	TSS - D Block - Zone II - Supplying Conveying and Laying 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam to Kannamoola - Ch 0 to 342m	Sewerage Division, KWA, Trivandrum	State Plan		Ongoing
11	TSS - Reconstruction of old dilapidated brick manholes, raising of manholes and replacement of RCC covers with CI covers at Thampanoor and Manjalikulam area under sewerage section No.2,Kuriath.	Sewerage Division, KWA, Trivandrum	State Plan		Completed
12	TSS - Reconstruction of old dilapidated brick man holes and raising of man holes at Fort - Chala area under Sewerage Section I, Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
13	TSS - Reconstruction of old dilapidated brick man holes and raising of man holes at Palkulangara - Pettah area under Sewerage Section I, Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
14	TSS - Reconstruction of old dilapidated brick manholes, raising of manholes and replacement of RCC covers with CI covers in the Right RC Area	Sewerage Division, KWA, Trivandrum	State Plan		Completed
15	TSS - Reconstruction of old dilapidated brick manholes, raising of manholes and replacement of RCC covers with CI covers in the Left RC Area	Sewerage Division, KWA, Trivandrum	State Plan		Completed
16	TSS - Reconstruction of old dilapidated brick manholes, raising of manholes and replacement of RCC covers with CI covers at Thaliyal and Karuvalikunnu area under sewerage section No.2,Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed

17	TSS - D Block - Zone II - Supplying Conveying and Laying 700 mm dia RCC NP3 pipe sewer Trunk main II from Murinjapalam towards Kannammoola Ch. 342 M to 952 M - land acquisition cost	Sewerage Division, KWA, Trivandrum	State Plan		Ongoing
18	TSS - Rehabilitation and up gradation of sewer lines and construction of man holes at , Kunnumpuram - Dhanya Ramya theatre road opposite Ayurveda college Pay wards	Sewerage Division, KWA, Trivandrum	State Plan		Completed
19	TSS - Rehabilitation of Sewer network at Chayakudi Lane and its cross roads	Sewerage Division, KWA, Trivandrum	State Plan		Completed
20	TSS - Increasing capacity of sewer lines and constructing RCC man holes at Sreenagar Manacaud	Sewerage Division, KWA, Trivandrum	State Plan		Completed
21	TSS - Urgent rectification of Sewerage Network to replacement of damaged 225mm SW pipes with 250mm SW pipe and Construction of new manholes at Bhagat Singh road and Pettah - Kannammoola Poad, Pettah, Trivandrum	Sewerage Division, KWA, Trivandrum	State Plan		Completed
22	TSS -Providing and laying 150mm SW branch sewer line (six branches) in Chenneseri lane in Maruthamkuzhi residents Association	Sewerage Division, KWA, Trivandrum	State Plan		Completed
23	TSS - Increasing capacity of 150mm SW pipe to 200 mm SW pipe and constructing RCC manholes at Koopakkaramadom	Sewerage Division, KWA, Trivandrum	State Plan		Completed
24	TSS - Reconstruction of old dilapidated brick manholes, raising of manholes and replacement of RCC covers with CI covers in the West RC Area	Sewerage Division, KWA, Trivandrum	State Plan		Completed
25	TSS - Reconstruction of old dilapidated brick manholes, raising of manholes and replacement of RCC covers with CI covers in the Central RC Area	Sewerage Division, KWA, Trivandrum	State Plan		Completed

26	TSS -Pettah Flyover Service line from Thoppil lane junction to Railway line on Anayara byeroad	Sewerage Division, KWA, Trivandrum	State Plan		Completed
27	TSS -Providing and laying 300mm dia sewer main from Edapazinji towards Palottukonam lane for interconnecting the existing 300 mm lane already laid in Palottukonam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
28	TSS -Reconstruction of old dilapidated brick manholes, raising of manholes and replacement of RCC covers with CI covers at Poojapura and Arannoor area under sewerage section No.2,Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
29	TSS - Providing and laying 200mm SW sewer line in Kedaram line near Murinjaplam from KRA 161 to 167 in Pattom ward	Sewerage Division, KWA, Trivandrum	State Plan		Completed
30	TSS - Providing and laying 200mm SW sewer line from House No. 204 to 231 at CSM Nagar	Sewerage Division, KWA, Trivandrum	State Plan		Completed
31	TSS - E Block Zone 2nd reach and Balance of 3rd zone- Providing Land acquisition charges for land already taken in advance position by KWA for laying 300mm RCC pipes in Peroorkada Mannamoola area	Sewerage Division, KWA, Trivandrum	State Plan		Completed
32	TSS- E Block Zone II - Laying 630mm dia HDPE pipe sewer main from Edapazhanji to Chithra nagar first reach- Ch 1841 m to 2133 m	Sewerage Division, KWA, Trivandrum	State Plan		Ongoing
33	TSS- Rehabilitation of sewer lines and reconstruction of damaged manholes in Thycaud Elamkam Garden lane from TENRA 144 to TENRA 199 A and from TNRA 158 to TNRA 208 under Sewerage Section II,Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed

34	TSS- Rehabilitation of existing sewer lines and extension of sewer networks at Podiyadi,Pandarakulam in Thaliyil TRWA/STRA area,Nedumcadu ward of Thiruvananthapuram Corporation under Sewerage Section II,Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
35	TSS-Replacing of old and damaged 150 mm SW sewer line with 200 mm SW sewer line from Maruthankuzhy Ganapathy temple Jn through side of Kochar Road to Triveni Lane and replacing of old and damaged 150 mm SW sewer line with 250 mm sewer line at Panickers lane F lane	Sewerage Division, KWA, Trivandrum	State Plan		Completed
36	TSS- Providing sewer lines at Kadappathala lane in Oolampara Sasthamangalam Pippinmoodu Road	Sewerage Division, KWA, Trivandrum	State Plan		Completed
37	TSS-Increasing the capacity of 100mm dia SW pipe to 150mm and 200mm dia and construction of man holes at B and D block Flats of Karimadam Colony, Attakulangara.	Sewerage Division, KWA, Trivandrum	State Plan		Completed
38	TSS-Supply, installation, testing & commissioning of one number additional 250 KVA DG set incomer feeder of 400 A rating in the existing main panel installed at Sewage pump house, Kuriathy, Thiruvananthapuram	Sewerage Division, KWA, Trivandrum	State Plan		Completed
39	TSS - Supply, installation, testing and commissioning of 250 KVAR Automatic Power Factor Correction (APFC) Panel and HT metering cubicle including replacement of Current transformer at Sewage pump house, Kuriathy.	Sewerage Division, KWA, Trivandrum	State Plan		Completed

40	TSS – Temporary rerouting of the 450 mm CI sewerage pumping main from Pattoor pump house- Laying 500 mm DI dia pumping main from Pattoor pumphouse to V. V. Nagar to replace the bursted pumping main at Pattoor	Sewerage Division, KWA, Trivandrum	State Plan		Completed
41	TSS - Interconnection work with 200 mm SW pipe line from the existing sewer line in front of Thampanoor Police Station to Aristo Junction	Sewerage Division, KWA, Trivandrum	State Plan		Completed
42	TSS-Providing and laying 200mm SW sewer line from RP lane towards Kuravankonam main line under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
43	TSS-Increasing capacity of 150 mm SW pipe to 200 mm SW pipe and constructing RCC manholes at Manacaud Valiyapalli,Thampuram Nagar, Avittom Thirunaal Welfare Association, CRW-77 to 82 and KRWA-144 to 155 under Sewerage Section 1 , Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
44	TSS-Providing sewage facility/rehabilitation of damaged line in six branch lanes at Athani,Vanchiyoar	Sewerage Division, KWA, Trivandrum	State Plan		Completed
45	TSS - Providing and laying 200 mm SW sewer line from DBRA 93 at Devaswom Board Jn.Nanthancode by replacing old damaged 150mm sewer line under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
46	TSS-Providing and laying 200mm SW sewer line at Regent Court lane,Kuravankonam under Sewerage Section, Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan		Completed
47	TSS -Providing and laying 250 mm SW sewer line interconnecting from Sreerangam lane towards CSM Nagar under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed

48	TSS-Replacing of old and damaged 150 mm SW sewer line with 300 mm SW sewer line,near Sreekrishna Swami Temple, Ambalamukku from East Nada to Murali lane, under sewerage section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
49	TSS-Providing and laying 200 mm SW sewer line from House No.VRA-14 to VRA-37 in Madancovil lane Vellayambalam under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
50	TSS-Providing and laying 200 mm SW sewer line at Puthupalli lane from House No.PRA-68 at Chalakuzhy-under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
51	TSS-Providing and laying 200 mm SW sewer line from House No.63 to 70 at CSM Nagar- under Sewerage Section,Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
52	TSS- Replacing of old and damaged 100mm SW sewer line with 200 mm SW sewer line at Pullaikonam Lane,Sasthamangalam under Sewerage Section,Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
53	TSS-Replacing of old damaged 150 mm, SW sewer line with 250 mm SW sewer line at Panicker's Lane C- Lane under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
54	TSS-Providing and laying 200mm dia SW sewer branch line at Pallivila Lane and branches of Mythiri Lane in Kuravankonam-Ambalamukku Road	Sewerage Division, KWA, Trivandrum	State Plan		Completed
55	TSS-Standardization of electrical installation of 315 KVA substation at Kannammoola pump house	Sewerage Division, KWA, Trivandrum	State Plan		Completed
56	TSS -Providing and laying 200 mm SW sewer line at Thamarabhagam near pond , Kumarapuram under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed

57	TSS- Providing and laying 200 mm SW Sewer line and reconstructing damaged junction pits at Madancovil Lane to RNP Lane at the side of drain under Sewerage Section, Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan		Completed
58	TSS- Providing and laying 300 mm and 250 mm SW sewer line at Koonamkulam Lane from pond to Paloor Lane by replacing old damaged undersized pipes under Sewerage Section, Sasthamangalam (Reach I)	Sewerage Division, KWA, Trivandrum	State Plan		Completed
59	TSS- Providing and laying 250 mm SW sewer line at Koonamkulam Lane from pond to Paloor Lane by replacing old damaged under sized pipes under Sewerage Section, Sasthamangalam (Reach II)	Sewerage Division, KWA, Trivandrum	State Plan		Completed
60	TSS- Providing and laying 200 mm SW sewer line at Koonamkulam lane from KPRA-A-56(8) and Pottakuzhi Jeevan Nagar-Karimbichivilla under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
61	TSS-Maintenance of septage receiving station at 107 MLD STP at Muttathara-Supply, erection and trial running of non clog sewage submersible pumpset for Dilution tank	Sewerage Division, KWA, Trivandrum	State Plan		Dropped
62	TSS-Providing sewer line towards House no. RNRA 21 to 25 C,D,E Lane and RNRA E7 of Resmi Lane Muttada	Sewerage Division, KWA, Trivandrum	State Plan		Completed
64	TSS-E-block Zone II-Laying 600 mm RCC NP3 pipe sewer main towards Edappazhinji Chitra Nagar (IVth reach) Chainage 2738m to 2908 m in connection with the commissioning of Jagathy-Kootamvila scheme- Land acquisition charges -Balance amount	Sewerage Division, KWA, Trivandrum	State Plan		Completed

STATE PLAN 2022-23

Sl No.	Name of Work	Implementing office	Source of fund	Time line	Status

1	TSS-Reconstruction of old dilapidated brick manholes and raising of manholes at Enchakkal -Sreevaraham area	Sewerage Division, KWA, Trivandrum	State Plan		Completed
2	TSS-Reconstruction of old dilapidated brick manholes and raising of manholes at Pettah Palkulangara area	Sewerage Division, KWA, Trivandrum	State Plan		Completed
3	TSS-Mace-Urgent re-laying of 400 mm dia RCC sewer main and allied works at Azhikotta Jn under Sewerage Section No-1, Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Work short closed as per SE's direction.
4	TSS- Replacing of old and damaged 100 mm SW sewer line with 200 mm SW sewer line at Bains Compound and Cliff house area in Nanthancode ward under sewerage section, Sassthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Dropped
5	TSS-Providing and laying 200mm SW Sewer line at Forest office C- lane by replacing and diverting old damaged 150mm SW pipe, under Sewerage Section,Sassthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
6	TSS- Replacing of old and damaged 225 mm SW sewer line with 300 mm SW sewer line, Mangalam Lane 3 in Sassthamangalam Ward, under Sewerage Section,Sassthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
1	TSS Replacing of old and damaged 150 mm SW sewer line with 300 mm SW sewer line, MP Appan road, Vazhuthacaud under Sewerage Section,Sassthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
2	TSS -Replacing of old and damaged 100 mm SW sewer line with 200 mm SW sewer line from in front of Pittappilli Agency Vellayambalam Jn. Gardens. Towards Elangam Gardens	Sewerage Division, KWA, Trivandrum	State Plan		Completed

3	TSS- Providing and laying 200mm SW sewer line at D-Lane (SEKT D1 to D6) and L-Lane (L1 to L6) in Kurups Lane and Sreerangam Lane House no. A-40 to 50 in 6 Sasthamangalam ward and Jagathy near UP School, House no SKNRA 129 to 134(A) in Jagathy ward,	Sewerage Division, KWA, Trivandrum	State Plan		Completed
4	TSS-Rehabilitation of damaged sewer lines and reconstruction of dilapidated brick man holes at various places in Pettah area	Sewerage Division, KWA, Trivandrum	State Plan		Completed
5	TSS-Laying new sewerage line/discarding the old one with 250 mm SW pipe from PF Office to Pattom junction (near IOC Pump) under Sewerage Section No-II , Kuryathi	Sewerage Division, KWA, Trivandrum	State Plan		Completed
6	TSS-Upgradation of existing sewer line 150mm SW pipes to 250mm SW pipe and construction of new manholes from Therakom Junction to Puthenkotta under Sewerage	Sewerage Division, KWA, Trivandrum	State Plan		Waiting for PWD Cutting sanction, Restoration amount remitted
7	TSS-Mace -Laying new 200mm sewer line from Attinkuzhi (Vattavila lane) Puthenkotta under sewerage section -II - Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
8	State Plan 2022-23-TSS- Construction of new parking shed for the newly purchased Department Vehicles (Sucking,jetting,desilting vehicles) at Kuriathy Sewerage South Sub Division premise	Sewerage Division, KWA, Trivandrum	State Plan		Completed
9	State Plan 2022-2023-TSS-E Block Zone II Laying 630 mm dia HDPE pipe sewer main from Edappazhanji to Chithra Nagar Ist Reach-CH.1841m to 2133 m-Additional Administrative Sanction for Rs. 50.10 lakhs (164.9+50.10) + Part 1	Sewerage Division, KWA, Trivandrum	State Plan		Well steining concrete in respect of 3 manholes and its scooping works were completed.
10	Part b - Gap	Sewerage Division, KWA, Trivandrum	State Plan		

11	State Plan 2022-23- TSS- Increasing the capacity of 150 mm dia SW pipe to 200 mm SW pipe and constructing RCC manholes at Uppalam Road residence association URR 11 A to URR 23 A under the area of Sewerage Section I,Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
12	State Plan 2022-23- TSSReconstruction of old dilapidated brick manholes and raising of manholes in Thaliyal & Karuvalikunnu areas	Sewerage Division, KWA, Trivandrum	State Plan		Completed
13	State Plan 2022-23-TSS Reconstruction of old dilapidated brick manholes with RCC and raising of manhole covers in the Central and Right RC area under Sewerage Section, Sassthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
14	State Plan 2022-23-TSS Reconstruction of old dilapidated brick manholes with RCC and raising of manhole covers in the Left and West RC area under Sewerage Section, Sassthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
15	State Plan 2022-23- TSS Mace-Supply,erecting and commissioning of 200 HP slow speed non clog flood proof submersible pump set and allied works at Kuriathy pump house	Sewerage Division, KWA, Trivandrum	State Plan		Pump installation completed and commissioned.
16	State Plan 2022-23- TSS- Zone II -Laying 600 mm dia RCC NP3 pipe sewer main towards Edapazhinji Chitra Nagar (IV th Reach) Ch 2738 to 2908 m in connection with the commissioning of Jagathy Kootamvila Scheme	Sewerage Division, KWA, Trivandrum	State Plan		Completed
17	State Plan 2022-23-TSS- Renovation of open drain from Kuriathy Pump house premise to public drain,	Sewerage Division, KWA, Trivandrum	State Plan		Completed
18	"Trivandrum Sewerage Scheme"-Providing and Laying Pipe from common manhole of sewer line at Ayyankali road to Nellikuzhy	Sewerage Division, KWA, Trivandrum	State Plan		Completed

19	State Plan 2022-23- Reconstruction of old dilapidated brick man holes,raising of man holes and replacement of RCC Covers with CI covers at Thampanoor and Manjalikkulam area	Sewerage Division, KWA, Trivandrum	State Plan		completed
20	TSS-Rehabilitation of sewer line in Kanthalloor Mahadeva Temple lane in Valiyasala ward under Sewerage Section no.II,Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
21	' TSS-E Block Zone II Laying 700mm dia RCC NP3 pipe sewer main from Jagathy towards common man hole (Ch.512 m to 785 m) & inter connection of 700mm dia DI pipe between Jagathy Chadiyara sewer main and parallel main across Killi river and constructing 450mm dia bored cast in situ piles inside of river and connected works(Ch 649 m to 679 m)- Additional Administrative Sanction	Sewerage Division, KWA, Trivandrum	State Plan		27 No of 700 mm RCC pipe laid . MH 1 to MH 6 completed. MH 7 and pipe laying in progress .
22	State Plan 2022-23 - TSS-Urgent rehabilitation of sewerage network by replacement of damaged 150 mm SW pipes with 300 mm SW pipe and construction of new manholes from Decent Mukku Jn to Pumphouse Road	Sewerage Division, KWA, Trivandrum	State Plan		
23	State Plan 2022-23 - TSS-Reconstruction of old dilapidated brick manholes, raising of manholes and replacement of RCC covers with CI covers at Thycaud and Poojappura RC areas	Sewerage Division, KWA, Trivandrum	State Plan		Completed
24	State Plan 2022-23 - TSS-Replacing of old and damaged 100mm SW sewer line with 200 mm SW sewer line at Pullaikonam lane Sasthamangalam-Additional AS	Sewerage Division, KWA, Trivandrum	State Plan		Completed

25	State Plan 2022-23 -TSS- Providing and laying 200 mm SW sewer line from house No 63 to 70 at CSM Nagar under Sewerage Section,Sasthamangalam- Additional AS	Sewerage Division, KWA, Trivandrum	State Plan		Completed
26	State Plan 2022-23-TSS- Replacing of old and damaged 150 mm SW sewer line with 200 mm SW sewer line from house no J47 to J16 at Janvilla Lane, Sasthamangalam ward under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
27	State Plan 2022-23 - TSS- Replacing of old and damaged 225 mm SW sewer line from Vazhuthacadu NC Hospital In to House no. MPNRA 95 at MP Appan Road, Vazhuthacadu under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
28	State Plan 2022-23-Attukal Pongala 2023-TSS- Preventive maintenance - Cleaning the sewer main and branch line using bucket type sewer cleaning machine under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Work arranged in connection with Attukal Pongala and is completd
29	State Plan 2022-23-Attukal Pongala 2023-TSS-Preventive maintenance - Raising of manhole covers and supplying and fixing CI MH cover at Palkulangara, Pettah and Enchakkal under Sewerage Section I,Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Work arranged in connection with Attukal Pongala and is completd
30	State Plan 2022-23-Attukal Pongala 2023-TSS-Preventive maintenance - Raising of man hole covers and supplying and fixing CI MH cover at Thampanoor and Manjalikulam RC areas under Sewerage Section No.II - Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Work arranged in connection with Attukal Pongala and is completd

31	State Plan 2022-23-TSS- Bucket cleaning - Cleaning the sewer line in Thampanoor - Mosque lane - Chempaka Nagar stretch under Sewerage Section No. II Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Work arranged in connection with Attukal Ponkala and is completd
32	State Plan 2022-23-TSS- Urgent replacement of 12.5m of 500mm dia MS pumping main from Kannamoola to Perunelli stilling chamber near Kannammoola pumphouse(near car workshop	Sewerage Division, KWA, Trivandrum	State Plan		No response in tender calls, to be re- tendered

STATE PLAN 2023-24

SI No.	Name of Work	Implementing office	Source of fund	Time line	Status
1	State Plan 2023-24- TSS- Increasing the capacity of sewage pipe line and reconstructing RCC manholes from Puttukada-Thattukada junction to BSNL Exchange office, Kaithamukku jn. at Fort Ward	Sewerage Division, KWA, Trivandrum	State Plan	30-04-2025	Completed
2	State Plan 2023-24- TSS- Reconstruction of old dilapidated brick manholes and construction of new manholes in various places at Fort, Chalai area	Sewerage Division, KWA, Trivandrum	State Plan	31-01-2025	Completed
3	State Plan 2023-24- TSS – Reconstruction of old dilapidated brick manholes and construction of new manholes in various places at Enchakkal, Sreevaraham area	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed
4	State Plan 2023-24- TSS- Reconstruction of damaged man holes and rehabilitation of sewer line at Fort hospital Junction to Fort Bakery Junction , Sreekanteswaram .	Sewerage Division, KWA, Trivandrum	State Plan	30-05-2025	Completed
5	State Plan 2023-24- TSS- Increasing the capacity of sewage pipe line and reconstructing RCC manholes in PRRAP 40 to 49 in ARRA 89 to 129 and VJRA 19 to 25 in Vanchiyoor ward .	Sewerage Division, KWA, Trivandrum	State Plan	30-08-2025	Work ongoing

6	State Plan 2023-24-TSS - Rehabilitation of damaged sewer lines and reconstruction of dilapidated brick manholes in Nandini Gardens, Kothalam .	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed
7	State Plan 2023-24-TSS- Increasing the capacity of sewage pipe line and reconstructing RCC manholes in back side of Kottuval Street, Sabhavathy road near Gandhi hotel,Karikkada lane,Pattuvilakam street and Kamukuvilakam street at Chalai Ward	Sewerage Division, KWA, Trivandrum	State Plan	31-08-2024	Work ongoing
8	State Plan 2023-24- TSS- Providing and laying of 200 mm dia SW sewer branch line in the end of Vyasa Nagar near Turfsy sports hub to house No 73(AC) in Paruthipara .	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed
9	State Plan 2023-24- TSS- Supplying and laying of 250 mm dia SW sewer line from Anaswara lane to existing MH to Njaramoodu .	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2025	Completed
10	State Plan 2023-24- TSS- Laying of 160 mm PVC sewer line near Poonthura Vilakom Lane in Maruthamkuzhy Residence Assosiation .	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2024	Completed
11	State Plan 2023-24- TSS- Laying 200 mm dia SW pipe sewer branch line from existing MH to the residential area near Pangode military camp	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Completed
12	State Plan 2023-24- TSS- Laying 150 mm dia SW pipe sewer branch line towards Padayani Gardens Association	Sewerage Division, KWA, Trivandrum	State Plan	30.05.2025	Completed
13	State Plan 2023-24-TSS- Replacing old and damaged 150mm & 100mm SW sewer line from House no. A61 to Shanthigiri hospital at Sasthamangalam ward	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed

14	State Plan 2023-24-TSS- Replacing of old and damaged 100&150mm SW line with 200mm SW sewer line from Vazhuthacadu Mohanam road towards CSM Nagar Vazhuthacadu ward	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Completed
15	State Plan 2023-24-TSS- Reconstruction of old dilapidate brick manhole with RCC and raising o f manhole covers in LEFT and WEST R C area under Sewerage Section ,Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2025	Completed
16	State Plan 2023 - 24 - TSS - Providing and laying 200 mm SW sewer line at Subramoniam lane near Edapazhinji	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Completed
17	State Plan 2023-24-TSS- Replacing of old and damaged 100 mm sewer line .with 200 SW sewer line in Kowdiar SS Kovil F lane	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
18	State Plan 2023-24-TSS- Providing and laying250mm SW sewer line from Paloor lane House no.KPRA A55(2) to Koonamkulam pond near transformer	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Completed
19	State Plan 2023-24-TSS- Replacing of old and damaged 150&200 mm SW sewer line with 300mm SW sewer line from Artech Rama Appartment through Panicker's lane F lane	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
20	State Plan 2023-24-TSS- Providing CI manhole cover , raising of cover slab in road level and levelling the undulated portion of Kedaram lane and branch road of Pattom ward	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Completed
21	State Plan 2023-24-TSS- Replacing of old and damaged 100 &150 mm SW sewer line with 200 SW sewer line in Kanaka Nager Residence area	Sewerage Division, KWA, Trivandrum	State Plan	31.06.2025	Completed

22	State Plan - 2023-24-TSS- Reconstruction of old dilapidated brick manholes with RCC and raising of manhole cover in the central and right RC area under Sewerage Section,Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
23	State Plan - 2023-24-TSS- Reconstruction of old dilapidated brick manholes and construction of New manholes in various places at Palkulangara, Pettah ward, manhole cover sewerage section -I	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
24	State plan 2023 - 24 - TSS - Reconstruction of old dilapidated brick man holes , construction of new man holes, raising of man holes & supplying CI MH covers in Pettah,Kannanmmoola & Kunnukuzhy, Pattom wards	Sewerage Division, KWA, Trivandrum	State Plan	30-06-2025	Work ongoing
25	State Plan 2023 - 24 - TSS - Reconstruction of old dilapidated brick man holes, raising of man holes & supplying CI MH covers in Valiyasala, Nedumcadu Chalai Kuriyathy,Attukal wards,	Sewerage Division, KWA, Trivandrum	State Plan	15-02-2025	Completed
26	State Plan 2023 - 24 - TSS - Reconstruction of old dilapidated brick man holes construction of new man holes, raising of man holes & supplying CI MH covers in Arannoor ,Jagathy, Karamana, Poojappura, mudvanmugal, Kalady wards	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed
27	State Plan 2023 - 24 - TSS - Rehabilitation of sewer lines construction of new man holes, Reconstruction of old dilapidated man holess, raising of man holes & supplying CI covers IN Thampannoor , Vanchiyoor, Palayam, vazhuthacadu and Thycadu wards	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Agreement Executed

28	State Plan 2023 - 24 Supply and Laying 200mm SW pipe near to Chilanthivala pond,Elamkom and replacing the existing sewer line from Chilathivala pond towards Elamkom road	Sewerage Division, KWA, Trivandrum	State Plan	28-02-2025	Completed
29	State Plan 2023 - 24 -TSS- Providing and laying 200mm SW sewer lines in Manjadimoodu Residence Association and PRA Lane No.1 in Padayani lane in Maruthumkuzhy.	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Completed
30	State Plan 2023 - 24- TSS- Providing and Laying 150mm SW Sewer line towards Green Valley Residents associaton (GVRA) in Muttada- Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed
31	State Plan 2023 - 24 -TSS- Providing 200mm SW sewer line in branches in Maruthumkuzhy area near Udiyanoor Temple (Kshethara kadavu lane, Udiyanoor lane, Sivashankara Lane & Thamburan Lane)	Sewerage Division, KWA, Trivandrum	State Plan	30.05.2025	Completed
32	State Plan 2023 - 24-TSS- Providing and laying 200mm SW pipe sewer lines in 2 branches along Bains compound- near Nanthancode junction- Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan	31.01.2025	Completed
33	State Plan 2023-24- TSS- Urgent relaying of damaged gravity main at Sreevaraham junction	Sewerage Division, KWA, Trivandrum	State Plan	31-03-2025	Work ongoing
34	State Plan 2023-24 -TSS - Increasing the capacity of sewage pipe line and reconstructing RCC manholes in Chembakassery, Eenchakkal Vallakkadavu road & Plancheri Lane at Perunthanni Ward	Sewerage Division, KWA, Trivandrum	State Plan	28-02-2025	Work ongoing

35	State Plan 2023-24-TSS- Increasing capacity of SW pipe from Garudan Junction to Market Junction in Sreevaraham Ward including Payikkattu lane, Panamoodu lane, Ullattu lane. Adikkathara lane (SKRA-1 to107) & Kilikkodu Lane	Sewerage Division, KWA, Trivandrum	State Plan	31-03-2025	Work ongoing
36	State Plan 2023-24-TSS - Rehabilitation of damaged sewer line and reconstruction of old dilapidated brick manholes in Fort & Enchakkal area	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Work ongoing
37	State Plan 2023-24-TSS Plan 30- 2023 - 24 - TSS - Rehabilitation of existing damaged 100 mm CI pipe with 160 mm 10 kg/cm2 PVC pipe. construction of new manholes at Thaliyal Residential Association from TRWA-413 to TRWA-419 & supply and laying 250 mm SW pipe in Harisree Residential Association (HSRA-D-47to KSRA-D-43) & TR WA.- 200- TRWA-235 at Kalady	Sewerage Division, KWA, Trivandrum	State Plan	30-06-2025	Completed
38	State Plan 2023-24-TSS - Rehabilitation of existing damaged 100mm pvc pipe to 200mm SW pipe at Nandavanam in Valiasala ward from electric post no T/MK/15 to TC/23/90,91, electric post no T/MK/12 to electric post no T/MK/9, and electric post no T/MK/8 to electric post no T/MK/6	Sewerage Division, KWA, Trivandrum	State Plan	30-04-2025	Work ongoing
39	State Plan 2023-24-TSS- Rehabilitation of sewer main from Sivanagar to Pump house road across Killipalam Attakulangara Bypass	Sewerage Division, KWA, Trivandrum	State Plan	Dropped	Dropped

40	State Plan -2023-2024 - Rehabilitation of existing 150mm SW pipe with 250mm SW dia from opposite lane to Maruti service center to house No. GNRA -193-A and construction of man holes at Pulichivila lane - CIT road at Arannoor ward	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Work ongoing
41	State Plan 2023-24-TSS Laying and rehabilitation of sewerage system at Karamana MA Khadar road, Karamana Masjid lane, by lane near Mosque, & Karamana Sreedevi nagar	Sewerage Division, KWA, Trivandrum	State Plan	31-03-2026	Agreement Executed
42	State Plan-2023-24-TSS- Providing and laying 200 mm dia SW sewer branches (15 Nos) from Edapazhanji Chithra Nagar junction to Njaramoodu Junction .	Sewerage Division, KWA, Trivandrum	State Plan	30.09.2025	Work ongoing
43	State Plan-2023-24-TSS- Mace-Pilot project-GIS mapping of manholes in the maintenance area under Sewerage Division Pattoor.	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed
44	State Plan-2023-24-TSS- Providing 200m Dia Sewer main from Edapazhinji Jn towards CSM Nagar	Sewerage Division, KWA, Trivandrum	State Plan	30.11.2025	Completed
45	Replacing worn out impeller set of 190 HP Xylem pumpset at Kuriathy New Pump House- TSS- Replacing worn out impeller set of 190 HP Xylem pumpset at Kuriathy New Pump House	Sewerage Division, KWA, Trivandrum	State Plan		Terminated
46	200 HP slow speed non clog flood proof submersible pump set and allied works at Kuriathy Pump House	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed
47	Kadapathala Oolampara Retarring	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
48	State Plan 2023-24 - NGT- Rectification of breakage line towards Pattoor pump house from narrow lane between Indian Veneer Company and canal (Amayizhanjan thodu) near Pattoor junction - under Sewerage Section No. II Kuriyathy.	Sewerage Division, KWA, Trivandrum	State Plan	31-03-2026	Work ongoing

49	State Plan 2023-24 - TSS-supply erection trial run and commissioning of dry well submersible stand by pump set at Murinjapalam pump house	Sewerage Division, KWA, Trivandrum	State Plan	15.07.2025	Tender evaluation
50	State Plan 2023-24 - TSS-supply erection trial run and commissioning of wet well submersible stand by pump set at Kannammoola	Sewerage Division, KWA, Trivandrum	State Plan	15.06.2025	Work ongoing
51	State Plan 2023-24 - TSS-supply erection trial run and commissioning of non clog wet well installed flood proof submersible pump set suitable for pumping raw sewage at Pattoor pump house	Sewerage Division, KWA, Trivandrum	State Plan	15.06.2025	Work ongoing
52	State Plan 2023-24 - TSS-supply erection trial run and commissioning of non clog dry installed flood proof submersible pump set suitable for pumping raw sewage at Plamoodu pump house	Sewerage Division, KWA, Trivandrum	State Plan	30.07.2025	Work Awarded

STATE PLAN 2024-25

SI No.	Name of Work	Implementing office	Source of fund	Time line	Status
1	Rehabilitation & upgradation of sewer lines and manholes in Sree Ganga nagar Welfare Residents Association in Kuryathi ward	Sewerage Division, KWA, Trivandrum	State Plan	31.12.2025	Work ongoing
2	Laying new sewer line in Munnazhithalakkal from TC.No. 20/222(1) to TC No. 20/296	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Work ongoing
3	Rehabitation of existing sewer main from electric post number PJ/PJ 50/9/3 to Jagathy post office	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Work Awarded
4	Rehabilitation of existing sewer main from Sivalayam road in front of CITU labour weighting shed to PJ/PJP/116 near Kannettumukku	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Work ongoing
5	Rehabilitation & replacement of damaged sewer line and construction new man holes at Mannadi Bhagavathi Temple from JNRA-B-40 to JNRA-C-32 at Nedumcaud ward	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Work ongoing

6	State Plan-2024 - 2025 - zone 1- Reconstruction of old dilapidated brick man holes, raising of man hole covers under - Sewerage section no: II Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan	31-03-2026	Completed
7	State Plan-2024-2025 - Laying sewerage line at VYASA nagar, Valiyasalai	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Work ongoing
8	Supplying erecting and commissioning of 01 No 30HP wet well type submersible pumpset at Enchakkal pump house	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Completed
9	TSS - Increasing the capacity of Sewage pipe line and reconstructing RCC manholes in chempakassery transformer lane and keezhe veedu colony in Perunthanni Ward	Sewerage Division, KWA, Trivandrum	State Plan	30-08-2025	Completed
10	TSS Mace - Rehabilitation of damaged sewer lines and reconstruction of manholes in S N Nagar in Pettah Ward	Sewerage Division, KWA, Trivandrum	State Plan	31-10-2025	Work ongoing
11	TSS - Reconstruction of damaged manholes under Kuriathy Section no. 1 (2 works)	Sewerage Division, KWA, Trivandrum	State Plan	31-03-2026	Work ongoing
12	TSS - Relaying of damaged sewer line and reconstruction of old dilapidated manholes in MGRA 68-70, MGRA 58 to KNRA 42, APRA 1E (near kulathinkara, palkulangara devi temple) in Palkulangara ward & MRA 102 at kaithamukku	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Work ongoing
13	TSS Relaying of damaged sewer line and reconstruction of old dilapidated manholes in Statue - GPO road and Mamballi lane	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Work ongoing
14	TSS- Supply and laying alternate 900mm DI pumping main from sewerage pump house at kuriathy upto bypass at kallumood	Sewerage Division, KWA, Trivandrum	State Plan		Dropped
15	State Plan 2024-2025- Replacing of old and damaged sewer line through NB Street and NSS Karayogam of Jawahar Nager in Kowdiar Ward	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Work ongoing

16	State Plan 2024-2025- Replacing of old and damaged sewer line from Ambalamukku Vrindavan Gardens to Oolampara junction for Rectify Sewerage overflow in Ambalamukku sreekrishna Temple	Sewerage Division, KWA, Trivandrum	State Plan		Dropped
17	State Plan 2024-25-Manhole construction- -Reconstruction of old dilapidated brick manholes with R C C and Raising of manhole covers in the areas under Sewerage Section , Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Work ongoing
18	Stateplan 2024-25-Althara main street--Replacing of old and damaged SW sewer line in Vellayambalam Althara nagar Althara main street towards CSM nagar and near Heera Blueberry	Sewerage Division, KWA, Trivandrum	State Plan		Dropped
19	State Plan 2024-2025 Replacing of old and damaged sewer line from Vazhuthacadu Mohanan road towards CSM nagar Balance work at Vazhuthacadu ward	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Completed
20	State Plan 2024-2025- Laying of New Sewerage Line at Sasthamangalam, Kurups Lane, N Lane & Thamarakkulam Lane, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan	31.06.2025	Completed
21	State Plan-2024-25 - TSS- Replacing 500 mm CI pumping main from Kannamoola to Muttathara Sewerage Treatment Plant by HDPE 630mm dia pipe using horizontal directional drilling method	Sewerage Division, KWA, Trivandrum	State Plan		Dropped
22	State Plan-2024-25-TSS – Replacing 450 mm CI pumping main from Pattoor to Muttathara Sewerage Treatment Plant by HDPE 500mm Outer dia pipe using horizontal directional drilling method	Sewerage Division, KWA, Trivandrum	State Plan		Dropped

23	State Plan-2024-25 - providing roofing sheet for diesel generator installed at Plamoodu, Murinjapalam, Kannamoola and Pattoor pump houses, walking arrangements at bottom portion inside plamoodu pump house and replacing screening at grid chamber at Plamoodu, Murinjapalam and Pattoor pump houses	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Work ongoing
24	State Plan-2024-25 - TSS-Supply, erection, trial-run and commissioning of c/f stand by pump set at Kannammoola pump house	Sewerage Division, KWA, Trivandrum	State Plan	25.03.2025	Work ongoing
25	State Plan-2024-25 - TSS-Supply, erection, trial-run and commissioning of c/f stand by pump set at Plamoodu pump house	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2025	Work ongoing
26	State Plan-2024-25 - TSS-Supply, erection, trial-run and commissioning of c/f stand by pump set at Murinjapalam pump house	Sewerage Division, KWA, Trivandrum	State Plan	30.08.2024	Recast Estimate
27	State Plan-2024-25 - TSS - Raising of Manholes at Vivekananda Nagar and sastha Nagar in connection with the commissioning of Jagathy - Koottamvila Scheme and Laying 150mm dia SW sewer branch lane towards sastha Nagar SRA 144A to 144B & manhole raising at Chadiyara-	Sewerage Division, KWA, Trivandrum	State Plan		Dropped
28	State Plan-2024-25 - TSS - Supplying, erection and commissioning of electronic soft starter suitable for 70 HP sewage motor at Pattoor Pump House	Sewerage Division, KWA, Trivandrum	State Plan	25.08.2025	to be retendered
29	STATE PLAN 2021-22 TSS - Providing and laying 350 mm SW sewer line from House.No.U - 52 to newly laid man hole at Njaramoodu	Sewerage Division, KWA, Trivandrum	State Plan	30.08.2025	Work ongoing
30	State Plan - 2024-25 - Providing and laying 200 mm dia SW sewer line from Jagathy Bund Road towards Jagathy junction near bridge	Sewerage Division, KWA, Trivandrum	State Plan	30.10.2025	Work ongoing

31	State Plan-2024-25 - TSS - D Block Zone II - Supplying, conveying, laying and jointing 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam - Kannamoola (Ch 849m to 1077m)	Sewerage Division, KWA, Trivandrum	State Plan	05.12.2025	Work ongoing
32	Block Zone II -Supplying, conveying Laying and jointing 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam - Kannammoola under Sewerage Project Section, Plamoodu (Ch.572m to 787m)	Sewerage Division, KWA, Trivandrum	State Plan	05.12.2025	Work ongoing
33	State Plan 2024-25 - TSS - laying of sewer line from KBAC Junction-towards Lenin Nagar(Balance work) under Sewerage Project Section, Plamoodu	Sewerage Division, KWA, Trivandrum	State Plan	25.07.2025	Work ongoing
34	State Plan 2024-2025- Supplying and laying sewer lines in Velavilakom lane in Padayani- Manjadimood road	Sewerage Division, KWA, Trivandrum	State Plan	13.07.2025	Completed
36	State Plan - 2024 - 25 - Providing new sewer line from Chitra Nagar junction towards Vivekananda Nagar near Edappazhinji SK Hospital	Sewerage Division, KWA, Trivandrum	State Plan	30.09.2025	Work ongoing
37	TSS - D Block Zone II - Supplying, conveying, laying and jointing 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam – Kannamoola (Ch. 342 m to 952 m) – Land acquisition cost - Additional AS	Sewerage Division, KWA, Trivandrum	State Plan	02.02.2025	Work ongoing
38	State Plan-2024-25-TSS - Reconstruction of old dilapidated brick manholes and construction of new manholes in various places under Sewerage section -1.- Reconstruction of old dilapidated brick manholes and construction of new manholes in various places under Sewerage section -1- ZONE-1-Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan		Work ongoing

39	State Plan-2023 -2024 - NGT Rectification of breakage line towards Pattoor Pump House from narrow lane between Indian Veneer Company and canal(Amayizhanjan thodu) near Pattoor junction-under Sewerage section no II, Kuriathy-Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan		Work ongoing

STATE PLAN 2025-26

1	State plan - 2025-26- Manhole construction - reconstruction of all old dilapidated brick manholes with RCC and raising of manholes covers in the areas under sewerage section, Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan		Work ongoing
2	State plan - 2025-26- Providing and laying SW Sewer line at Mannammoola, Edakulam Surya Garden area - sewerage wor	Sewerage Division, KWA, Trivandrum	State Plan		Agreement Executed
3	State plan - 2025-26- Tagore Garden - Replacing of old and damaged SW Lines with new higher sized sewer lines in Medical college, Tagore Garden towards Thamarabhagam.	Sewerage Division, KWA, Trivandrum	State Plan		Tendered
4	State plan - 2025-26- Replacing of old, under sized and damaged sewer line with new SW Sewer line, Rajiv nagar - Sewer work.	Sewerage Division, KWA, Trivandrum	State Plan		Tender evaluation
5	State plan - 2025-26- Replacing of old, under sized and damaged see lines with New SW line from Ration shop near Kattachal Bhagavathy Temple towards Bhagavathy Lane	Sewerage Division, KWA, Trivandrum	State Plan		Tender evaluation
6	State plan - 2025-26- Replacing of old, under sized and damaged sewer line with new SW Sewer line near Asif Biryani Hotel at Kesavadasapuram - Ulloor Road.	Sewerage Division, KWA, Trivandrum	State Plan		Agreement Executed
7	State plan - 2025-26- Providing and laying SW sewer line near Sabarigiri School and varies places in Kuravankonam Ward.	Sewerage Division, KWA, Trivandrum	State Plan		Tender evaluation

8	State plan - 2025-26- Replacing of old, under sized and damaged sewer line with new SW Sewer line Gandhi Nagar, Plapally Lane areas - Sewerage work	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
9	State plan - 2025-26- Replacing of old, under sized and damaged SW line at CSM Nagar House number 10 to 76 in Vazhuthacud Ward	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
10	State Plan 2025-26 - Providing and laying SW sewer line at Bhagavathy Nagar Jawahar Nagar areas, NB Street areas, panickers lane, Kanaka Nagar, urya Lane and Sasthamangalam Hospital Areas - sewerage work road	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
11	State plan-2025-26- Binoy line - Laying of new sewerage line at the branches in Binoy line V and line A at Marappalam - Muttada TKD Road	Sewerage Division, KWA, Trivandrum	State Plan	to be retendered
12	State plan - 2025-26- TSS - Construction of New well and connected work at Pattoor Pump House	Sewerage Division, KWA, Trivandrum	State Plan	Tendered
13	State plan - 2025-26- TSS - Construction of new well and connected work at Kannamoola Pump House.	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
14	State Plan-2025 - 26 -TSS - Construction of new well-and connected work at Plamoodu pump house-Sewerage Work- Construction of new well and allied structures-General Civil Work	Sewerage Division, KWA, Trivandrum	State Plan	Tendered
15	State plan - 2025-26- TSS- Purachase of CI and RCC manhole covers, varies SW pipes and cold bitumen premix for maintenance work under sewerage division, Pattoor	Sewerage Division, KWA, Trivandrum	State Plan	Tendered
16	State Plan-2025 - 26 - Providing and laying new sewer line from the existing M H at Njaramoodu towards Hill top and branch line starting from Edapazhinji Sastha Nagar-Extension of sewer line .-Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan	AS Received

17	State Plan-2025 - 26 - TSS - C Block - Providing new sewer line from Kallumoodu Gardens to Pulli lane with railway crossing	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
18	State Plan-2025-2026 - Rehabilitation of existing sewer main at Kalavihar lane, Kunnukuzhyunder Sewerage section no: II, Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan	Work ongoing
19	State Plan-State Plan-2025 - 2026 - TSS- Reconstruction of old dilapidated brick man holes, construction of new sewerage man holes, raising of man hole covers & supplying CI MH covers - & Bucket Cleaning - Cleaning the sewer lines using Bucket type cleaning machine in Nandavanam near DD Office to Jagathy junction near back side of Karthika hotelunder - Sewerage section no: II	Sewerage Division, KWA, Trivandrum	State Plan	Agreement Executed
20	State Plan 2025- Laying 150mm SW line and Manholes near Vrindhavan Gardens at East fort-under sewerage section 1,Kuriyathy.	Sewerage Division, KWA, Trivandrum	State Plan	Agreement Executed
21	State Plan 2025-26-Increasing the capacity of Sewage pipeline and reconstructing RCC manholes in various places of Padanav lane PRWA-12,Kuttikadu lane KNRA- 11,SPTRA 108,MSNRA-52,PRAW 1-4,TPSRA103-108 at Manacaud Ward &KB Pandaram lane under sewerage section 1,Kuriyathy	Sewerage Division, KWA, Trivandrum	State Plan	Work Awarded
22	State Plan-2025-26-Relaying old Sewer lines and re construction of Old dilapidated manholes at Chettikulangara NSS Karayogam Line. And cleaning sewer lines at Chalai, Sreevaraham and Fort areas.	Sewerage Division, KWA, Trivandrum	State Plan	AS Received

23	State Plan 2025-26 Replacing damaged lines and re construction of dilapidated manholes near Shiveli Nagar, Thengapura line, Elangam vilakam line, Venkidathu line, Mepalli garden, Varuvilkathu line near MKK Nair road. Sewerage Work.	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
24	State Plan 2025-26 – TSS - Reconstruction of old dilapidated brick manholes and construction of new manholes in various places under Sewerage Section - I - Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
25	State Plan 2025-26 - Rehabilitation of sewer main at Noolkkadamukku Thycaud - General Civil Work	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
26	State Plan 2025-26 - Providing Sewerage line extension at Thyvila road, Manjalikulam - General Civil Work	Sewerage Division, KWA, Trivandrum	State Plan	AS Received

AMRUT

SI No.	Name of Work	Implementing office	Source of fund	Time line	Status
1	AMRUT 2.0 - T S S - Providing and laying 250 mm SW Sewer line at Kanjirampara East Residence Association (KERA), (MH 1-MH15) under Sewerage section Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
2	AMRUT 2.0 - T S S - Providing and laying 250 mm SW Sewer line at Kanjirampara East Residence Association (KERA), (MH16-MH 30) under Sewerage section Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed

3	AMRUT 2.0 - T S S - Providing and laying 200 mm SW Sewer line at Harismrithy lane, Kanjirampara East Residents Association, Kanjirampara, under Sewerage section Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
4	AMRUT 2.0 - T S S - Providing and laying 200 mm SW Sewer line at Parayil lane, Kanjirampara East Residents Association, Kanjirampara, under Sewerage section Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
5	AMRUT 2.0 - T S S - Providing and laying 200 mm sw sewer line towards SOUBHAGYA NAGAR and KALATHIL LANE, Medical college ward, under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
6	AMRUT 2.0 - T S S - Corporation of Thiruvananthapuram- Providing and laying 200mm SW Sewer line at Devi Nagar, "T" lane Edakulam, at Peroorkada ward under Sewerage section Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
7	AMRUT 2.0 - T S S - Providing and laying 200 mm SW sewer line from house MGRA 97 to 114 at Maharaja gardens, Kowdiar ward - under Sewerage Section, Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
8	AMRUT 2.0 - T S S - Providing and laying 300 & 250mm SW sewer line from Kalakoumudi road Towards Koyikkal lane in the side of pond - under Sewerage Section, Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
9	AMRUT 2.0 - T S S - Providing and laying 200mm SW Sewer line at KK lane at Murinjapalam, under Sewerage Section, Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed

10	AMRUT 2.0 - T S S - Providing and laying 200 mm SW sewer line at Chithira lane Towards Kochar road Maruthankuzhy under sewerage section, Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
11	AMRUT 2.0 - Providing and laying 200 mm SW sewer line from house no MGRA 135 towards TKD Road Marapalam under Sewerage section Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
12	AMRUT 2.0 - Providing and laying 200 mm SW sewer line in Panchami Garden H no. PGRA 1 to PGRA 35 in Jagathy ward, under sewerage section Sasthamangalam	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
13	AMRUT 2.0 - SD - Providing and laying 300mm & 200 mm SW Sewer line at Arapura, Vattiyoorkavu, under Sewerage Section, Sasthamangalam, Reach 1	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
14	AMRUT 2.0 - Providing and laying 200 mm s w sewer line near BSNL office Chalakuzhy, Medical College and branch lane at SCT Nagar from SCTNRA-231 to PLRA-151 - under Sewerage section Sasthamangalam	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
15	SD - Providing and laying 300mm & 200 mm S W Sewer line at Arapura, Vattiyoorkavu, under Sewerage Section, Sasthamangalam, Reach 2	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
16	AMRUT 2.0 - TSS- 2022-23- Laying 150 mm dia SW sewer line towards Padayani Garden Assosiation lane 17 (PRA 153 to PRA 158) & Lane 06 (PRA 29 to PRA 32) and laying PVC sewer line towards Punartham Garden Lane 11 (87 to 96) & Lane 8 Bin Padayani road in Maruthamkuzhy	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
17	Upgradation of sewer line from Decent Mukku jn to Pumphouse road	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing

18	Upgradation of sewer lines from Mudavanmughal jn (near RC Church) to Decent Mukku jn	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
19	Upgradation of existing sewer line from Kunnunbanglow to Mudavanmughal jn(near RC Church)	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
20	Rehabilitation and upgradation of sewerage main from NC Hospital junction to Kannettumuuku junction	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
21	Reconstruction of old dilapidated brick man holes, construction of new sewerage man holes, raising of man hole covers & supplying CI MH covers in Pottakuzhy - Mulavana road stretch	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
22	AMRUT 2.0-Supply, Erecting and Commissioning of various pump sets, other necessary Equipments for 107 MLD Sewerage Treatment Plant at Muttathara	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
23	AMRUT 2.0--Reconstruction of old dilapidated brick and RCC manholes with RCC and raising man hole covers in to road level and replacing RCC cover slab in to CI cover under Sansthamangalam Section	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
24	AMRUT 2.0 - Raising of manhole at Vivekanda Nagar, Sastha Nagar, Chadiyara Poojappura area in connection with commissioning of Jagathy Koottamvila scheme and laying new sewer branch line towards Sastha nagar SRA 144A to 144B.	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
25	AMRUT2 -Replacing and upgrading of old and damaged sewer line at Jagathy CS road	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
26	~~AMRUT 2.0 - Replacing and upgrading of old and damaged sewer line through NB Street and NSS Karayogam of Jawahar Nagar in Kowdiar ward~~	Sewerage Division, KWA, Trivandrum	AMRUT		Dropped

27	AMRUT 2.0 - Replacing of Old and damaged sewer line in Kunnukuzhi R C Street	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
28	AMRUT 2.0 -Providing new sewer line in Mele veedu Madan kovil & Kukiliar lane fom house no. KLRA 80 to KLRA 125 in Jagathy ward	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
29	AMRUT 2.0--Providing new Sewer line in Idavakkadu line at Vikramapuram Hill and Kalathilpuzha line in Kanjirampara	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
30	AMRUT 2.0 -Replacing old and damaged sewer line at Althara main street and street in front of Heera Blue Berry	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
31	AMRUT 2.0 -Providing new sewer line near Udarasiromani Jhanardhanan Pillai road in Vazhuthacadu ward	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
32	AMRUT 2.0 - Providing new sewer line at Housing Board colony in Kuravankonam.	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
33	AMRUT 2.0 -Providing new sewer line at Vinayaka nagar towards Arappura area	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
34	Amrut 2.0 Providing new sewer line and replacing and upgrading of old and damaged sewer line from Ambalamukku Vrindavan Gardens to Oolampara junction for rectifying Sewerage overflow in Ambalamukku Sreekrishna	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing

SMART CITY

SI No.	Name of Work	Implementing office	Source of fund	Time line	Status
1	Deposit work - Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system from Music college to MN Smarakam road (Model school junction to Mettukada Road ID -PWD -PH-4B - 142c) due to work carried out by smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed

2	Deposit work - Smart city Thiruvananthapuram Ltd - Reconstruction/Maintenance of Sewerage system from Zam - Zam hotel to Palayam traffic Jct near VJT hall (VJT Hall flyover Road - 108) due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
3	Deposit work - Smart city Thiruvananthapuram Ltd - Reconstruction/Maintenance of Sewerage system from fly over bridge starting in front of Women's Hospital Road ID-120 & From Thampannoor Police station to Aristo Jn Road ID-140 due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
4	Smart city Thiruvananthapuram Ltd - Reconstruction / Maintenance of Sewerage system from Govt. Arts college to Music college Road ID - 121 (part-1) Norka - Gandhi Bhavan road	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
5	Smart city Thiruvananthapuram Ltd - Reconstruction / Maintenance of Sewerage system starting from Spencer junction to AKG Centre (Gas house road) Road ID - 152 due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
6	Smart city Thiruvananthapuram Ltd - Reconstruction/Maintenance of Sewerage system from Norka building Thycadu to in front of Arts College (Road ID -PWD -PH 4B- 121(Part-2 portion) due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
7	Smart city Thiruvananthapuram Ltd - Reconstruction/Maintenance of Sewerage system from Sree Dharma Shastha Temple to Residence No.158 (Thycadu house-Keezhe Thampannoor road) (Road ID - 117-Part-2 portion) due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed

8	Smart city Thiruvananthapuram Ltd – Reconstruction /Maintenance of Sewerage system from Sree Dharma Shastha Temple to MODEL school JN Road (Thycadu house- Keezhe Thampanoor road) (Road ID - 117-Part portion) due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
9	T S S-Deposit Work- Smart city project- Shifting and laying 200 mm SW sewer line by replacing 150mm line near Vazhuthacaud Junction towards MP Appan road under Sewerage Section , Sasthamangalam. Road ID 104 Part1	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
10	T S S-Deposit Work- Smart city project- Shifting and laying 250 mm SW sewer line by replacing 150mm line From Bishop Pereira Hall Jn to Nanthavanam Jn. under Sewerage Section , Sasthamangalam. (Road ID 24)	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
11	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system at Kalabhavan Mani Road(from Panavila jn to Womens college jn - Road id - 116) due to work carried out by Smart City.	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
12	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system from Vandrose Jn to Spencer Jn - Road id - 112) due to work carried out by Smart City	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
13	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system from Vandrose Jn to contonment police station (Punnar road)- Road id - 141) due to work carried out by Smart City	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed

14	TSS - SCTL - Deviation of sewer line and reconstruction of brick man holes in the roads constructing under Smart city project roads with ID 144 (PWD PH -4B) in OVER BRIDGE TO UPPIDAMMOODU JN Chainage +00 to +731	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
15	TSS - SCTL - Deviation of sewer line and reconstruction of brick man holes in the roads constructing under Smart city project - Statue - General Hospital road - ID147 (PWD	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
16	TSS - SCTL - Deviation of sewer line and reconstruction of brick man holes in the roads constructing under Smart city project roads with ID 148 in Ayurveda college to Chettikulangara under Sewerage Section I, Kuriathy	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
17	TSS - SCTL - Providing sewer main and rider - reconstruction of brick man holes in the roads constructing under Smart city project along West nada - Azhikkotta road (ID - 136)	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
18	TSS - SCTL - Deviation of sewer line and reconstruction of brick man holes in the roads constructing under Smart city project road with ID 91 - Mathrubhumi road chainage 0.00 to 255.00 under Sewerage Section I, Kuriathy	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
19	TSS - SCTL - Deviation of sewer line and reconstruction of brick man holes in the roads constructing under Smart city project roads with ID 146 (PWD PH - 4B) in Ayurveda college to Old GPO Kunnumpuram under Sewerage Section I, Kuriathy	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed

20	TSS - SCTL - Providing sewer main and rider - reconstruction of brick manholes in Court Jn. - General Hospital road constructing under Smart city project (ID - 149) Chainage 705m	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
21	TSS - SCTL - Rehabilitation of sewer line , providing rider main and construction of man holes in Padmavilasom road constructing under Smart city project, ID - 132	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
22	Reconstruction of old dilapidated brick manholes with R C C and Raising of manhole covers in Ganapathy kovil road, Vazhuthacadu ward (ID 111)	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
23	DEPOSIT- SMART CITY- Providing and laying 160mm PVC rider main at Vazhuthcaud towards MP Appan road Road ID 104 part 1(Sl. No. 10)	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
24	Construction of manholes and reconstruction of brick manholes and steining raising at Bakery junction Valsala Nursing home road	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
25	DEPOSIT-Smart City - Rehabilitation of existing 150 mm SW sewer main with 300 mm SW PIPE from Sivanagar to Pump house road across Killipalam Attakulangara	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
26	Rectification of damages caused sewer lines by Smart city contractor Road ID-149:-- Bucket cleaning of sewer lines blocked during smart city road constructions at Vanchiyoor General Hospital- Stretch 1: Vanchiyoor to Mathrubhumi road	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed

MLA- ADS

1	LAC-ADS-Thiruvananthapuram Constituency - Project 19284-TSS-PROVIDING NEW SEWER LINE BESIDE EAST FORT-ATTAKULANGARA ROAD NEAR ATTAKULANGARA JUNCTION-Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Ongoing
2	LAC-ADS-Project No. 19398 - Thiruvananthapuram Constituency- - Reconstructing RCC manholes and relaying sewage pipe line at Meppalli gardens and chempakassery thannimoodu lane in palkulangara ward-Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Ongoing
3	LAC-ADS-2024-25-Sewerage section Sasthamangalam--Providing new Sewer line at Pottakuzhi junction near Kairali hotel-Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Completed
4	LAC-ADS-Vattiyoorkavu - Rehabilitation of sewer lines- T S S- Rehabilitation of old and damaged sewer line in Kowdiar SS Kovil C Lane and E Lane -Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Tender temporarily Cancelled
5	LAC-ADS-Rehabilitation of sewer line-Rehabilitation of existing damaged sewer pipe line at Nandavanam in Valiyasala ward-Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Submitted for Revised AS
6	LAC-ADS-Laying new sewerage line -Mosque lane Sreemoolam lane at Thampanoor ward-Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Agreement Executed

National Mission for Clean Ganga

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RIVER PAMBA, PATHANAMTHITTA DECEMBER 2025

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT- Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2025	Projects for to be taken
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	„	„
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning	„	„
5	Chief Secretaries may set up appropriate monitoring mechanism at state level • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose	NA	-
	• Monitoring at State level must take place	NA	-
6	Progress report may be furnished by the State/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	NA	-
6.	Progress Report may be comprised of details along with		

1	completion timelines on: (I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. (II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status (iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; (vi) Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including		Presently no STP in the panchayat Presently no CETP or ETP in the panchayat Door to door plastic waste collection, Supply of waste bins, Construction of compost pits etc. Not Available Biomedical waste disposed through IMAGE , Plastic waste collected door to door by Haritha Karma Sena Yes, Going On

	waste generated from hotels, Ashrams, etc. (vii)Ground water regulation (viii) Adopting good irrigation practices (ix) Protection and management of food plain Zones (FPZ) (x) Rain water harvesting (xi)Maintaining minimum Environmental flow of river (xii) Plantation on both sides of the river (xiii)Setting up biodiversity parks on flood plains by removing encroachment		- Yes, Going On Yes, Going On

ACTION PLAN FOR RIVER PAMBA, KERALA

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of OCTOBER 2025	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% works completed	Details of works remaining
A(a)	No industries	-	-					

A(a)	Monitoring of river water quality	Kerala State Pollution Control Board	Continuing project					
C(ii)	Establishment of decentralized solid waste treatment facility	MannarPanchayat, Kadapra/ NiranamPanchayath	31.03.2021	THUMBOORMOOZHI MODEL AEROBIC COMPOST 4 UNIT IN PANCHAYTH&2 UNIT IN PRIVATE BUS STAND	No new project taken	No new projects		
C	Establishment of Material Collection Facility	MannarPanchayat, Kadapra/ NiranamPanchayath	31.03.2021	CIVIL WORK COMPLETED	CIVIL WORK COMPLETED	CIVIL WORK & ELECRIFICATION COMPLETED		
C	Resource Recovery Facility	MannarPanchayat, Kadapra/ NiranamPanchayath	31.03.2021	NA	NA	NA		
C	Installing household and community level solid waste management units	MannarPanchayat	31.03.2021	PLASTIC WASTE COLLECTION	PLASTIC WASTE COLLECTION	PLASTIC WASTE & GLASS WASTE COLLECTED IN DECEMBER		
C	Door to door collection and transportation of municipal solid waste	MannarPanchayat	31.03.2021	Userfee collection 76.94%	Userfee collection 75.4 %	Userfee collection 75.55 %		
C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the	KadapraPanchayat	31.12.2020					

	storm water drain of Parumala Town							
C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Mannar Town	MannarPanchayat	31.12.2020	Projects has to be taken	Projects has to be taken			
C	Construction of compound wall with fencing	Irrigation department	31.03.2021					
C	Removing light jungle and muddies from river courses	Irrigation department	31.03.2021					
C	Electrical-Light arrangements and Surveillance cameras	Irrigation department	31.03.2021					
C	Regualtingactivites in flood plain zone, protection and management of flood plain zone	Irrigation department	31.03.2021					
	Greenery developmentPlantation plan. Plantation on both sides of the river, setting up biodiversity parks on flood plains by removing encroachment	Irrigation department	31.03.2021					
C (b)	Green Protocol	Mannar, Kadapra/	31.05.2020	100%	100%	100%		

(ii)	implementation in all Offices institution & Public function	NiranamPanchayat						
D(a)	Issues relating to E-flow, maintaining minimum environmental flow of river (by having watershed management provisions)	Irrigation department	30.11.2020					
D (b)	Irrigation practices	Irrigation department	30.04.2020					
E	Awareness programmes for sections of public	Kerala State Pollution Control Board	31.05.2020					
C	Management of municipal, plastic, hazardous, biomedical and electrical waste	LSGD	31.03.2021	PLASTIC COLLECTED BY HARITHAKARMASENA	PLASTIC & E WASTE COLLECTED BY HARITHAKARMASENA	PLASTIC & GLASS WASTE COLLECTED BY HARITHAKARMASENA		

ACTION BY GROUND WATER DEPARTMENT

Sl. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Progress in the month of OCTOBER 2025	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries					

		particularly in over exploited as critical zones/blocks					
2	B(ii)	Ground water recharging / rain water harvesting					
3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps					
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices					

National Mission for Clean Ganga

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RIVER PAMBA, PATHANAMTHITTA(DECEMBER 2025)

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT- Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2025	Projects for to be taken
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	„	„
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning	„	
5	Chief Secretaries may set up appropriate monitoring mechanism at state level • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose	NA	-
	• Monitoring at State level must take place	NA	-
6	Progress report may be furnished by the State/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	NA	-
6.1	Progress Report may be comprised of details along with		

	completion timelines on: (I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. (II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status (iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; (vi) Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including		Presently no STP in the panchayat Presently no CETP or ETP in the panchayat Door to door plastic waste collection, Supply of waste bins, Construction of compost pits etc. Not Available Biomedical waste disposed through IMAGE , Plastic waste collected door to door by Haritha Karma Sena Yes, Going On

	waste generated from hotels, Ashrams, etc. (vii)Ground water regulation (viii) Adopting good irrigation practices (ix) Protection and management of food plain Zones (FPZ) (x) Rain water harvesting (xi)Maintaining minimum Environmental flow of river (xii) Plantation on both sides of the river (xiii)Setting up biodiversity parks on flood plains by removing encroachment		Yes, Going On Yes, Going On

ACTION PLAN FOR RIVER PAMBA, KERALA

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of NOVEMBER 2025		% works completed	Details of works remaining
					Progress in the month of DECEMBER 2025		
A(a)	No industries	-	-	-		-	-
A(a)	Monitoring of river water quality	Kerala State Pollution Control Board	Continuing project				
C(ii)	Establishment of de-centralized solid waste treatment facility	Mannar Panchayath	31.03.2021	No new project taken	No new project taken	-	-
		Niranam		Niranam Gramapanchaya t is an upper	Niranam Gramapancha		

		Panchayat		Kuttanad area , so no such dry land suitable for solid waste treatment plant is available .	yat is an upper Kuttanad area , so no such dry land suitable for solid waste treatment plant is available .		
				The Panchayat	Not submitted		

		Kadapra Panchayath		Material Collection Facility id fully funcational in Kadapra Grama Panchayat	Not submitted the report		
C	Resource Recovery Facility	Mannar	31.03.2021	NO RRF IN PANCHAYATH	NO RRF IN PANCHAYATH	NA	NA

		Niranam		Necessary instruction are given to all offices and institution to strictly comply with the green protocol and is regularly monitored	Not submitted the report		
		Kadapra		Resource Recovery Facility due to non-availability of space	Not submitted the report		

C	Installing household and community level solid waste management units	Mannar Panchayat	31.03.2021	PLASTIC WASTE COLLECTION	PLASTIC WASTE & GLASS WASTE COLLECTED IN DECEMBER		
C	Door to door collection and transportation of municipal solid waste	Mannar Panchayat	31.03.2021	Userfee collection 75.4 %	Userfee collection 75.55 %	76.94%	23.06%
C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Parumala Town	Kadapra Panchayat	31.12.2020	The Panchayat considered that sewage treatment plants are currently not need with in Panchayat area around Parumala	Not submitted the report		

C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Mannar Town	Mannar Panchayat	31.12.2020	Projects has to be taken			
C	Construction of compound wall with fencing	Irrigation department	31.03.2021	Work could not be arranged due to lack of funds	Fund to be allotted for the purpose	Fund to be allotted for the purpose	
C	Removing light jungle and muddies from river courses	Irrigation department	31.03.2021	Work tendered	Fund to be allotted for the purpose	Fund to be allotted for the purpose	2%
C	Electrical-Light arrangements and Surveillance cameras	Irrigation department	31.03.2021	Work could not be arranged due to lack of funds	Fund to be allotted for the purpose	Fund to be allotted for the purpose	
C	Regualting activites in flood plain zone, protection and management of flood plain zone	Irrigation department	31.03.2021	Work could not be arranged due to lack of funds	Fund to be allotted for the purpose	Fund to be allotted for the purpose	
	Greenery developmentPlantation plan. Plantation on both sides of the river, setting up biodiversity parks on flood plains by removing encroachment	Irrigation department	31.03.2021	Work could not be arranged due to lack of funds	Fund to be allotted for the purpose	Fund to be allotted for the purpose	
C (b) (ii)	Green Protocol implementation in all Offices institution & Public function	Mannar	31.05.2020	100% Green protocol has implemented in in public offices	100% Green protocol has implemented in in public offices		

		Kadapra		Green protocol has implemented in public officers Kadapra Grama Panchayat	Green protocol has implemented in public officers Kadapra Grama Panchayat		
		Niranam		-	-		
D(a)	Issues relating to E-flow, maintaining minimum environmental flow of river (by having watershed management provisions)	Irrigation department	30.11.2020		Study conducted & DPR submitted to CE'S Office		
D (b)	Irrigation practices	Irrigation department	30.04.2020		Routine procedures are following to avoid river pollution		
E	Awareness programmes for sections of public	Kerala State Pollution Control	31.05.2020				

		Board					
C	Management of municipal, plastic, hazardous, biomedical and electrical waste	LSGD MANNAR PT	31.03.2021	PLASTIC COLLECTED BY HARITHAKARMA SENA	PLASTIC & GLASS WASTE COLLECTED BY HARITHAKARMA SENA		

ACTION BY GROUND WATER DEPARTMENT

Sl. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Progress in the month of NOVEMBER2025	Progress in the month of DECEMBER 2025	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	NOC has not been issued to industries for Ground Water extraction during NOVEMBER2025.	NOC has not been issued to industries for Ground Water extraction during DECEMBER 2025.	Demand based	1.As per the GEC estimation all the blocks in the District has been categorized as SAFE. 2.Provisions of GW (control &Regulation) Act 2002 is implementing strictly for regulating extraction of GW resource in the district

2	B(ii)	Ground water recharging / rain water harvesting	Estimate for Implementation of ARS at 4 sites has been prepared and sent for Technical Sanction.	ARS at 4 sites at Ranni Technical Sanction obtained & work tendered. Feasibility for new 5 sites at Ranni found & estimate under preparation.	Demand based	All the blocks in the district is categorized as SAFE as per GEC estimation. Kadapra-Niranam Area is not feasible for Ground Water Recharge. However, GW recharging programme is taken up in some pockets in the midland area including Manimala basin. Where seasonal GW level fluctuation is noticed.	
3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps	General & Iron samples of the observation wells (14 Nos- Trend & Surveillance Station- Selected Wells) in the District collected during the month July 2025 and sent to Analytical Lab Trivandrum	General & Iron samples of the observation wells (14 Nos- Trend & Surveillance Station- Selected Wells) in the District collected during the month July 2025 and sent to Analytical Lab Trivandrum.	Periodical assessment (Regular programme) Chemical analysis result of groundwater samples received from Analytical Lab, Trivandrum upto December 2023	(i)Maintaining a network of observation wells in various hydrogeomorphic units throughout the district from which water level and water samples have been collected periodically and analysed. (ii)generally groundwater quality is good and potable	General & Iron samples of the observation wells (14 Nos- Trend & Surveillance Station- Selected Wells) in the District collected during the month July 2025 and sent to Analytical Lab Trivandrum

4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices	As per Building Rule (KPBR) Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the clearance from GWD. ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.	As per Building Rule (KPBR) Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the clearance from GWD. ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.	Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the clearance from GWD. ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose. 3 number of Mass Awareness Programme on Ground Water Conservation & regulation completed.	i)Borewell/tube well construction is regulated in the district by insisting permit of local bodies based on the feasibility report of GWD. ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose. iii)Awareness programmes organised to the public to adopt rainwater harvesting measures	As per Building Rule (KPBR) Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the clearance from GWD. ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.

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RIVER MANIMALA, ALAPPUZHA

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT-Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2021	NIL
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	Since Large Land holding by local residents on the bank, No
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning	22.01.2020	Such issues arises, no need of steps since
5	Chief Secretaries may set up appropriate monitoring mechanism at state level - Specifying accountability of nodal authorities not below the Secretary level - Chief Secretaries may have an accountable person attached in their office for this purpose	22.01.2020	No industry/commercial activity
	Monitoring at State level must take place	22.01.2020	NIL
6	Progress report may be furnished by the State/UTs to - Secretary, Ministry of Jal Shakti - Member Secretary, CPCB	22.01.2020 Fortnightly commencing	NIL
6.1	Progress Report may be comprised of details along with completion timelines on:	21.12.2019	Drains contributing to river

(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.	2020-2021	pollution were identified.The drains are seasonal and water quality is above the require limit,no in situ.
(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Proposal for setting up an FSTP by Chengannur municipality is initiated.
(III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		Since the area does not contain any industry no requirement of any CETP,this action. Plan revised.
(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	2019-2020	The adjoining local bodies are in the stage of developing and establishing adequate solid waste management facilities also the solid waste during issues were not identified in the stretch during field visit held during past 1year.
(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	2020-2021	Water quality analysis result of the stretch up to DECEMBER 2023 is enclosed.
(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.	2020-2021	Awareness campaigns initiated. No groundwater pollution is noted in the area action yet to

(vii)Ground water regulation		be initiated.
(viii) Adopting good irrigation practices		Action will be initiated.
(ix) Protection and management of food plain Zones (FPZ)		Action will be initiated.
(x) Rain water harvesting		Action will be initiated.
(xi)Maintaining minimum Environmental flow of river		Action will be initiated.
(xii) Plantation on both sides of the river		Action will be initiated.
(xiii)Setting up biodiversity parks on flood plains by removing encroachment		

ACTION PLAN FOR RIVER PAMBA, KERALA

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of October 2025	Progress in the month of November 2025	Progress in the month of December 2025	% works completed	Details of works remaining
A(a)	Monitorng of river water quality	Kerala State Pollution Control Board	Continuing project				100%	NIL
A(b)	Rendering Plant at Eraviperoor or Thiruvalla	Eraviperoor/ Thiruvalla local body	31.03.2021				0%	Work to be initiated
C(ii)	Fencing of bridges, desilting,	Irrigation	31.03.2021				0%	Work to

	dredging and protection works, surveillance cameras at vantage points	department						be initiated
C	Preventing illegal discharge of septage and other waste water into the river. Formation of River Protection Group	Panchayath, Police , KSPCB	31.05.2020.				0%	Work pending due to COVID pandemic
C	Greenery development Plantation on both sides of the river, setting up biodiversity parks in flood plains and removing encroachment	Irrigation department in association with panchayath	31.03.2021				0%	Yet to be initiated
C(b)(ii)	Green Protocol implementation in all offices, institution & public functions	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoorpanchayaths	31.03.2020				100%	0
D(a)	Issues relating to E-flow, maintaining minimum environmental flow of river (by having watershed management provisions)	Irrigation department, Hydrographic survey department	31.03.2021					Work to be initiated
C(ii)	Establishment of decentralized solid waste treatment facilities	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoorpanchayaths	31.12.2020				100%	0
C	Installing household & community level solid and domestic sewage waste management	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoorpanchayaths	31.12.2020				NA	NA

C	Door to door collection of solid waste & Material Collection Facilities (MCF) & Resource Revcovery Facilities (RRF)	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoorpanchayaths	31.12.2020					NA	NA

ACTION BY GROUND WATER DEPARTMENT

Sl. No	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Timeline	Progress in the month of October 2025	Progress in the month of November 2025	Progress in the month of December 2025	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	31.03.2021					
2	B(ii)	Ground water recharging / rain water harvesting in Govt offices	31.03.2021					
3	NGT order in O.A	NGT order in O.A no.496/2016	31.03.202					

	no.496/2016 Identification of illegal bore wells in the catchment area.	Identification of illegal bore wells in the catchment area.	1					

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RIVER PERIYAR. ERNAKULAM

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT-Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation		
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured		
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		
5	Chief Secretaries may set up appropriate monitoring mechanism at state level • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose		
	• Monitoring at State level must take place		
6	Progress report may be furnished by the State/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB		

6.1	Progress Report may be comprised of details along with completion timelines on: (I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. (II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status (iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; (vi) Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc. (vii) Ground water regulation (viii) Adopting good irrigation practices (ix) Protection and management of flood plain Zones (FPZ) (x) Rain water harvesting (xi) Maintaining minimum Environmental flow of river (xii) Plantation on both sides of the river (xiii) Setting up biodiversity parks on flood plains by removing encroachment		

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES

No. (as per tion Plan)	Activity	Implementing agency	Timelin e	Progress in the month Of September 2025	Progress in the month Of October 2025	Progress in the month Of November 2025	% works complet ed	Details of works remaining
(b)	Augmentatio n and Revamping of existing STP at near Adwaitha Ashramam and to increase the capacity of STP so as to treat more sewage generated in the municipality	Aluva Municipalit y	Dec 2019	No progress in renovation observed. The mechanical machinery needs complete replacement. The estimate was recast . Civil work is almost complete. The tender for mechanical work was re-issued, and the work order will be issued soon. Steps are being taken to obtain PCB consent . Committee suggested speeding up completion.	All the mechanical machinery of the STP needs to be replaced for the renovation. The estimate was recast. Electrical work and civil work are almost complete. Re-tender was called for the mechanical work, and the work order was issued. Steps will be taken to obtain PCB consent for the STP. Access to the Sewage Treatment Plant has been obstructed by the Adwaithasramam by constructing a wall. Consequently, a notice for the removal of this impediment has been sent by the Municipality, The matter was already addressed to the district collector & in the next week a meeting is scheduled by the District collector.	All the mechanical machinery of the STP needs to be replaced for the renovation. The estimate was recast. Electrical work and civil work are almost complete. Re-tender was called for the mechanical work, and the work order was issued. Steps will be taken to obtain PCB consent for the STP. Access to the Sewage Treatment Plant has been obstructed by the Adwaithasramam by constructing a wall. Consequently, a notice for the removal of this impediment has been sent by the Municipality, The matter was already addressed to the district collector & in the next week a meeting is scheduled by the District collector.		
(b)	Augmentatio n and Revamping of existing STP at Aluva Market and to	Aluva Municipalit y	2021	₹48 crore administrative sanction for market reconstruction under PMSSY obtained, and DPR prepared. Reconstruction includes a higher capacity ETP (IMLD) ; the lower capacity ETP proposed for the fish market will be omitted. An application	The reconstruction of the Aluva General Market has received administrative sanction for Rs. 48 Crore under PMSSY, and the DPR has been prepared. The reconstruction of the market includes an ETP with increased capacity (1 MLD). Since an ETP with increased capacity is	The reconstruction of the Aluva General Market has received administrative sanction for Rs. 48 Crore under PMSSY, and the DPR has been prepared. The reconstruction of the market includes an ETP with increased capacity (1 MLD). Since an ETP with increased capacity is		

	increase the capacity of STP so as to treat more sewage generated in the municipality			for "Consent to Establish" for the construction was submitted to the Board. The inauguration of the Hi-tech Market is over; ETP, STP, are included in DPR.	being installed, the proposal for the lower capacity ETP proposed only for the Fish Market will be excluded. An application has been submitted to the Board for Consent to Establish for the construction work of the market's ETP. The inauguration of the Hi-Tech Market was conducted on June 29. The DPR includes STP and ETP.Piling work is ongoing	being installed, the proposal for the lower capacity ETP proposed only for the Fish Market will be excluded. An application has been submitted to the Board for Consent to Establish for the construction work of the market's ETP. The inauguration of the Hi-Tech Market was conducted on June 29. The DPR includes STP and ETP.Piling work is ongoing		
(b)	Discharge of sewage from township to the River through drain near Periyar Hotel shall be stopped.	Aluva Municipality	2020	A special squad was formed and conducts regular inspections, collecting fin es at outlets to canals/streams/Periyar.	A Special Squad has been formed for inspection. Inspection is conducted at the outlets leading to canals, streams, and the Periyar, and fines are imposed	A Special Squad has been formed for inspection. Inspection is conducted at the outlets leading to canals, streams, and the Periyar, and fines are imposed		
(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain and to collect fine based on polluter pay principle	Aluva Municipality, KSPCB	2020	A special squad was formed and conducts regular inspections, collecting fin es at outlets to canals/streams/Periyar.	A Special Squad has been formed for inspection. Inspection is conducted at the outlets leading to canals, streams, and the Periyar, and fines are imposed	A Special Squad has been formed for inspection. Inspection is conducted at the outlets leading to canals, streams, and the Periyar, and fines are imposed		

(a)(iv)	Periodical inspection in the Industries, Flats, hotels monitoring of STP,ETP	KSPCB	Periodical	ONGOING	ONGOING	ONGOING		
(ii)	Installation of modern abattoirs	Aluva Municipality	March 2021	Council approval received on 12.07.2024 for preparing the DPR and inviting tender. This is included in the DPR for the new General Market . PCB directed to submit an application for ICE for construction . Approval from the Town Planning Department is withheld because a house is 7.5 m away; direct government approval is needed	It was reported that the Council approved the Expression of Interest for the construction of a modern slaughterhouse and preparation of the DPR on 12.07.2024, and further steps are being taken. This is included in the DPR for the new General Market. The PCB informed that an ICE application should be submitted for the construction of the Slaughterhouse. Approval has not been received from the Town Planning Department as a house is situated at a distance of 7.5 m. Request for Direct approval from the government is sent.	It was reported that the Council approved the Expression of Interest for the construction of a modern slaughterhouse and preparation of the DPR on 12.07.2024, and further steps are being taken. This is included in the DPR for the new General Market. The PCB informed that an ICE application should be submitted for the construction of the Slaughterhouse. Approval has not been received from the Town Planning Department as a house is situated at a distance of 7.5 m. Request for Direct approval from the government is sent.		
(b)	Procurement of sewer cleaning machines and equipment maintenance	Aluva Municipality	March 2020	Drain cleaning activities are carried out daily . equipment like JCB, Hitachi , through an annual contract. Equipment for cleaning drains has been purchased.	Drain cleaning activities are carried out daily . equipment like JCB, Hitachi , through an annual contract. Equipment for cleaning drains has been purchased.	Drain cleaning activities are carried out daily . equipment like JCB, Hitachi , through an annual contract. Equipment for cleaning drains has been purchased.	100	
	Installation of cameras at the waste dumping spots	Aluva Municipality	2020	66 cameras installed and functional for monitoring dumping sites. ₹15 lakhs allocated for new cameras to be installed this financial year. Fine collected (2025): Illegal Outlet: ₹60,000/- ; Illegal Dumping: ₹10,000/- ;	As part of monitoring dumping sites (places where waste is deposited), 66 cameras have been installed. All are working. Rs. 15 Lakh has been earmarked for installing new cameras. They will be installed this financial	As part of monitoring dumping sites (places where waste is deposited), 66 cameras have been installed. All are working. Rs. 15 Lakh has been earmarked for installing new cameras. They will be installed this financial		

				Single-use Plastic: ₹10,000/-.	year. Fine details for after last meeting: Fine- Rs.22500/-	year. Fine details for after last meeting: Fine- Rs.22500/-		
	Construction of STP and FSTP	Aluva Municipality		DPR available with the Water Authority, and funds from the Suchitwa Mission are available. However, land acquisition is the current obstacle.	The DPR of the Water Authority and the funding of the Suchitwa Mission are available, but the land has not been made available.	The DPR of the Water Authority and the funding of the Suchitwa Mission are available, but the land has not been made available.		
(b)	Construction of retaining wall with HDPE liner at Kalamassery dumping yard in order to prevent the leachate discharge from the yard to Thoombungal Thodu	Kalamassery Municipality	Sept 2019	The construction of the dumping yard retaining wall has been completed. The construction of the compound wall has been completed. The STP will be installed immediately after the biomining. The biomining has started, completed 45 %	The construction work of the boundary wall of the dumping yard has been completed. The compound wall construction has been completed. The STP will be installed immediately after Biomining. Biomining work is 45% complete. Biomining operations were suspended in April and will restart in November.	The construction work of the boundary wall of the dumping yard has been completed. The compound wall construction has been completed. The STP will be installed immediately after Biomining. Biomining work is 45% complete. Biomining operations were suspended in April and will restart in November.	100 %	
(ii)	Installation of plastic shredding unit	Kalamassery Municipality	June 2019	A plant has been set up and is functioning. The scraps are being transported by CKCL. It was informed that this is being transported to the Palakkad cement factory.	One plant has been established and is operating. The shredded material is taken by CKCL. It was reported that this is taken to the Palakkad Cement Factory. It has been decided to establish a PSU after the biomining is complete.	One plant has been established and is operating. The shredded material is taken by CKCL. It was reported that this is taken to the Palakkad Cement Factory. It has been decided to establish a PSU after the biomining is complete.	100 %	
(a)(iv)	Constitution of squads for night surveillance for	Kalamassery Municipality, Police department	2020	A squad has been formed and is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It	A squad has been formed and continuous surveillance is being conducted. Those who dump waste are being identified using the cameras available to the	A squad has been formed and continuous surveillance is being conducted. Those who dump waste are being identified using the cameras available to the	N A	

	finding the unauthorized dumping of sewage at NAD wetlands Kalamassery			is not possible to install cameras on NAD roads as NAD has control over them.collaborating with the KSWMP project to prepare an IEC plan. As part of this, the decision to provide drainage and awareness classes has been included in this year's plan.	Municipality. Cameras cannot be installed on the NAD road as the area is under the control of NAD. An IEC plan is being put forward in association with the KSWMP project. As part of this, the decision to provide drainage and awareness classes has been included in this year's plan.	Municipality. Cameras cannot be installed on the NAD road as the area is under the control of NAD. An IEC plan is being put forward in association with the KSWMP project. As part of this, the decision to provide drainage and awareness classes has been included in this year's plan.		
(b)	Installation of common STP for Kalamassery Municipality and ETP at Municipal Market. Obtain a consent from Pollution Control Board	Kalamassery Municipality	December 2019	The work of renovating the existing ETP in the market has not started. The works will be completed within 2 months of renovating the market and after completing the biomining, the STP will be installed at the site of the existing dumping yard. The proposal for 2 new STPs has been sent to the DPC. The work of renovating the market is 80% complete.It has been decided to include the construction of the STP as a new project in this year's plan.	The work of renovating the existing ETP in the market has not started. The market renovation will be completed within 2 months. The STP will be established at the current dumping yard site after the completion of biomining. A proposal for 2 new STPs has been sent to the DPC..The construction of the STP has been decided to be included as a new project in this year's plan. It has been decided to complete the works by July 2026	The work of renovating the existing ETP in the market has not started. The market renovation will be completed within 2 months. The STP will be established at the current dumping yard site after the completion of biomining. A proposal for 2 new STPs has been sent to the DPC..The construction of the STP has been decided to be included as a new project in this year's plan. It has been decided to complete the works by July 2026	N A	
(a)(iv)	Monitoring and surveillance of industries in Kalamassery Industrial Estate in order to prevent unauthorized discharges to Muttar River	KSPCB	2019					
(ii)	Installation of modern abattoirs	Kalamassery Municipality,	2021	There is no progress due to the lack of space.	There is no progress due to the lack of space.	There is no progress due to the lack of space.	N A	

	including poultry and meat rendering plants.	Industries Department (for land allotment)						
(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Kalamassery Municipality	2020	A fine of Rs. 22,36,940/- has been collected so far for dumping waste and discharging sewage. Waste dumping fine : February- Rs. 110,000/- March - Rs 101,500/-	A fine of Rs. 22,36,940/- has been collected so far for waste dumping and sewage discharge. Waste dumping fine: August – Rs. 25000/-	A fine of Rs. 22,36,940/- has been collected so far for waste dumping and sewage discharge. Waste dumping fine: August – Rs. 25000/-	N A	
	Installation of cameras at the waste dumping spots	Kalamassery Municipality	2020	Keltron cameras have been installed in the vicinity of the aerobic bin near the HIL company where the waste was stored and in the vicinity of the bin near the Manjummal Arattukadavu. In addition, in the 2023-24 plan, funds have been allocated for installing cameras in various areas of the municipality and accordingly, 84 cameras have been installed under 2 projects (Rs. 40,00,000/-). Fine collected in the month of September- Rs. 27,500/-	84 cameras have been installed, 2 in each of the 42 wards. Visuals are available.	84 cameras have been installed, 2 in each of the 42 wards. Visuals are available.		
(b)	Identification of sources of sewage discharged to	Eloor Municipality, KSPCB (for monitoring)	2020	Inspections are being conducted from time to time. No discharge of waste was observed during the inspection.	Inspections are conducted periodically. Arrangements were made to divert the sewage discharged from shopping complexes, shops, etc., to the soak pit,	Inspections are conducted periodically. Arrangements were made to divert the sewage discharged from shopping complexes, shops, etc., to the soak pit,		

	drain near Pathalam bridge and action to stop the discharge which reach river Periyar from hotels, labor camps etc In case the quantity of sewage generated is assessed to be more STP need to be installed				and the problem was solved. Fencing is completed. Discussions are ongoing with FACT for the land required for establishing STP. A meeting was held on 19/06/2025. The agency presented the presentation about the STP to the FACT officials. Monthly fine collection is around Rs.1,00,000	and the problem was solved. Fencing is completed. Discussions are ongoing with FACT for the land required for establishing STP. A meeting was held on 19/06/2025. The agency presented the presentation about the STP to the FACT officials. Monthly fine collection is around Rs.1,00,000		
	Installation of cameras at the waste dumping spots	Eloor Municipality	2020	84 cameras installed and functional; fines are being collected. Cameras installed by Keltron near the aerobic bin (HIL company) and near Manjummal Aarattukadavu .	84 cameras have been installed. All are working. Fines are collected. Keltron cameras have installed near the aerobic bin close to HIL Company and near the aerobic bin at Manjummal Aarattukadavu, Where the waste is frequently deposited.	84 cameras have been installed. All are working. Fines are collected. Keltron cameras have installed near the aerobic bin close to HIL Company and near the aerobic bin at Manjummal Aarattukadavu, Where the waste is frequently deposited.		
(a)(iv)	Periodical inspection in the Industries, Flats, hotels for monitoring of STP,ETP located in Cochin corporation	KSPCB	periodical					

(a)	Inventory of sources of pollution through a rapid study/Study for identification of pollution sources at Edapally thodu	Kochi Municipal Corporation	3 months	A squad of Engineering & Health conducts regular inspections to identify sewage sources. Desilting works for 2024 are complete; works for 2025-2026 are ongoing. Night and special septage squads conduct inspections. Fine collected from 01/03/2025 to 31/03/2025 totaled ₹6,25,696/- . Notices were sent regarding sewage discharge.	Squad comprising Engineering & Health has been formed to identify the sources dumping sewage/waste water. 4 squads conduct regular inspections. Desilting works for the year 2024 have been completed. Desilting work for the year 2025-2026 is ongoing. Night squad conducts inspections at these locations. A special squad conducts inspections regarding septic tanks. Fine collected, (Total): Rs. 528700/- from 01/08/2025 to 31/08/2025	Squad comprising Engineering & Health has been formed to identify the sources dumping sewage/waste water. 4 squads conduct regular inspections. Desilting works for the year 2024 have been completed. Desilting work for the year 2025-2026 is ongoing. Night squad conducts inspections at these locations. A special squad conducts inspections regarding septic tanks. Fine collected, (Total): Rs. 528700/- from 01/08/2025 to 31/08/2025		
(a)(iv)	Periodical inspection in the flats, hotels, shops located along the river	Kochi Municipal Corporation	periodical	Periodical monitoring by Health squad is going on. About 662 notices had been issued and majority of cases were rectified so far. An amount of Rs.2,11,530/- for public littering Rs.85,020/- for littering of waste in water bodies, Rs.37,060/- for littering of waste in public places, Rs.30,510/- as fine for waste removal, Rs.42,500/- for waste mismanagement at establishments, shops etc, Rs.37,000/- is collected as eviction fine, Rs.82,080/- is collected as waste collection user fee, Rs.3,000/- is collected as	Regular inspections are conducted in establishments near the river.	Regular inspections are conducted in establishments near the river.		

				fine for burning of waste at public places and thus a total amount of Rs.5,28,700/-has been collected as fine for a period from 01/08/2025 to 31/08/2025. Thus a total fine of Rs. 1,84,13,693/- had been collected so far in this regard.				
(b)	Identification of natural drains/thodu reaching river Periyar and cleaning of weeds, grasses etc	Irrigation department	2 years	<u>Minor Irrigation</u> An 8 crore rupee project called "Krishikkopam Kalamassery" with Agriculture is underway. It includes desilting of 40 canals, 7 culverts, and 2 sluices. Desilting of 22 canals has been completed. 80% of the work on the 7 culverts has been finished. Sluice work has not yet started. Desilting of Karumalloor canal is 49% complete. <u>Major Irrigation</u> Eerezhachal Punchathodu site has been handed over. As there are complaints from the residents regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation. A letter has also been submitted through the Collectorate. The project includes 218 meters of side protection and 1000 meters of desilting. The SE has informed that a report should be submitted to the Collector highlighting the issue of demarcation.	Minor Irrigation: Cleaned 23 streams in Eloor Municipality. The project "Krishikkopam Kalamassery" worth Rs.8 Crore is ongoing. This includes the desilting of 40 streams, 7 culverts, and 2 sluicers. Desilting & deweeding of 25 streams has been completed in Karumalloor region. 80% of the work on 7 culverts has been completed. <u>Major Irrigation:</u> The work of cleaning, weed removal, and side protection has been arranged for one of the thodus, "Erezhuchaal Punchathodu." However, the work could not be commenced due to complaints from nearby residents regarding encroachment. Accordingly, the Assistant Executive Engineer, Additional Irrigation Sub-Division, Aluva, has requested the Bhoorekha Tahsildar, Paravoor, to carry out boundary demarcation. A letter has also been addressed to the District Collector to expedite the demarcation works.. <u>1. Kuthu thodu</u>	Minor Irrigation: Cleaned 23 streams in Eloor Municipality. The project "Krishikkopam Kalamassery" worth Rs.8 Crore is ongoing. This includes the desilting of 40 streams, 7 culverts, and 2 sluicers. Desilting & deweeding of 25 streams has been completed in Karumalloor region. 80% of the work on 7 culverts has been completed. <u>Major Irrigation:</u> The work of cleaning, weed removal, and side protection has been arranged for one of the thodus, "Erezhuchaal Punchathodu." However, the work could not be commenced due to complaints from nearby residents regarding encroachment. Accordingly, the Assistant Executive Engineer, Additional Irrigation Sub-Division, Aluva, has requested the Bhoorekha Tahsildar, Paravoor, to carry out boundary demarcation. A letter has also been addressed to the District Collector to expedite the demarcation works.. <u>1. Kuthu thodu</u>		

				Kuthuthode (IRR/IA/EST/8495/2022-5-8-7) Rs. 74.40 lakh It has been taken up under the Operation vessel. The initial phase of the desilting work has commenced. It was informed that the work will proceed depending on a reduction in rainfall.	The desilting work of kuthu thodu has been completed under operation vahini 2025-26.	The desilting work of kuthu thodu has been completed under operation vahini 2025-26.		
(iii)	Clearing of weeds, grasses at the river bank in order to ensure the smooth flow of water	Irrigation department	3 years	Almost all the works have been completed in the 2024-2025 operation vessel. The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored. The site has been handed over for the project to remove banana plantations from the upstream and downstream areas of the Pathalam regulator. In the first phase, 10% of the work has been completed. Currently, the banks of the Pathalam and Manjummel rivers are clean.	The first phase of the work for removing weeds in the upstream and downstream reaches of the Pathalam RCB is in progress (GENERAL-NGT - Works-Periodic Cleaning works-Removal of water hyacinth from the Upstream and Downstream of Pathalam Lock cum Regulator at Eloor Municipality in Ernakulam District-2024-25-General Civil Work – Rs.13 Lakhs). This activity is planned to be carried out three times a year to ensure the river remains clean at all times.	The first phase of the work for removing weeds in the upstream and downstream reaches of the Pathalam RCB is in progress (GENERAL-NGT - Works-Periodic Cleaning works-Removal of water hyacinth from the Upstream and Downstream of Pathalam Lock cum Regulator at Eloor Municipality in Ernakulam District-2024-25-General Civil Work – Rs.13 Lakhs). This activity is planned to be carried out three times a year to ensure the river remains clean at all times.		
(a)	Maintaining of Minimum flow in river during	Irrigation department	3 years	The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has	As part of the water management, shutters are being operated as required. The draft Shutter Operation Protocol	As part of the water management, shutters are being operated as required. The draft Shutter Operation Protocol		

	lean period and periodical operation of Regulators at River in-order to maintain minimum flow.			been prepared and sent to CEE. It has not been approved.Cleaning works have been arranged for a period of one year. Currently, all areas are free from waste.	(SOP) was submitted to the Government for approval in September 2025 and is awaiting approval for implementation. Officials of the Pollution Control Board are sharing dissolved oxygen (DO) levels in the official WhatsApp group formed for monitoring the operation of RCBs. On review, it is observed that the DO level near the Pathalam RCB is satisfactory (above 4 mg/Ltr). Hence the shutters are being operated in and efficient and systematic manner	(SOP) was submitted to the Government for approval in September 2025 and is awaiting approval for implementation. Officials of the Pollution Control Board are sharing dissolved oxygen (DO) levels in the official WhatsApp group formed for monitoring the operation of RCBs. On review, it is observed that the DO level near the Pathalam RCB is satisfactory (above 4 mg/Ltr). Hence the shutters are being operated in and efficient and systematic manner		
(b)	Common Effluent Treatment Plant at Edayar Industrial Estate	Industries department	2022	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."		
(b)	Construction of internal roads and proper drainage in Edayar industrial estate	Industries department		Road drainage works worth ₹9.47 crore completed under the CDP scheme. 100% of the drainage construction completed for the ₹34 lakh allocated to PWD. All maintenance/repair works for internal roads are complete. PCB and PWD conducted a joint inspection, and a	Road drainage works worth ₹9.47 crore completed under the CDP scheme. 100% of the drainage construction completed for the ₹34 lakh allocated to PWD. All maintenance/repair works for internal roads are complete. PCB and PWD conducted a joint inspection, and a rectification sketch for the	Road drainage works worth ₹9.47 crore completed under the CDP scheme. 100% of the drainage construction completed for the ₹34 lakh allocated to PWD. All maintenance/repair works for internal roads are complete. PCB and PWD conducted a joint inspection, and a rectification sketch for the		

				rectification sketch for the drainage system was given to PWD. PWD needs to submit the Feasibility Report to the industrial estate.	drainage system was given to PWD. PWD needs to submit the Feasibility Report to the industrial estate.	drainage system was given to PWD. PWD needs to submit the Feasibility Report to the industrial estate.		
(b)	Installation of common discharge pipe line at downstream of Pathalam Regulator Bridge	Industries department, Irrigation department	3 years	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."		
	Installation of Night vision surveillance cameras at the River Bank side	KSPCB	2020	Surveillance cameras and related equipment have been installed	Surveillance cameras and related equipment have been installed	Surveillance cameras and related equipment have been installed	1 0 0	
(a)(iv)	Periodical Monitoring of Eloor, Edayar, Kalamassery Industrial belts	KSPCB	2020	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	1 0 0	
(a)(iv)	Monitoring of quality of water at various intake point	Kerala Water Authority	2020					

(a)(iv)	Installation of additional continuous online River water monitoring station	KSPCB	2022	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	Real time water quality monitoring stations has been installed at the upstream & downstream side of pathalambund.	Real time water quality monitoring stations has been installed at the upstream & downstream side of pathalambund.	100	
(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Kadungallur Panchayath	2020	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	Establishments dumping sewage are identified, and fines are collected.	Establishments dumping sewage are identified, and fines are collected.	50%	
	Installation of cameras at the waste dumping spots	Kadungallur Panchayath	2020	A ₹15 lakh project for installing 33 cameras in 28 dumping spots is ongoing. Cameras are installed; only the cable connection is pending.	42 cameras have been installed currently.	42 cameras have been installed currently.	50%	
(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Choornikkara Panchayath	2020	Inspection is being conducted. Waste dumping fine:- January - 1,1000/- February- 7000/- March- 25,000/-	Inspections are being conducted, the panchayat is directed to update the details of fines collected recently, if any.	Inspections are being conducted, the panchayat is directed to update the details of fines collected recently, if any.		

	Installation of cameras at the waste dumping spots	Choornikkara Panchayath	2020	56 cameras have been installed. 13 more will be installed using KMRL CSR funds.	56 cameras have been installed. 2 camera are not working now. It will be resolved after renewing the AMC. 13 more cameras will be installed using KMRL CSR fund. It has been sent for government approval.	56 cameras have been installed. 2 camera are not working now. It will be resolved after renewing the AMC. 13 more cameras will be installed using KMRL CSR fund. It has been sent for government approval.		

LONG TERM MEASURES

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month Of September 2025	Progress in the month Of October2025	Progress in the month Of November2025	% works comple ted	Details of works remaini ng
A(b)	Construction of walkway, ring roads etc at the Periyar River bank at industrial belt.	Irrigation department	4 years	Soil investigation work for the surveillance road and dyke wall at Eloor-Muppathadam industrial area (right bank) is complete. Surveying is ongoing: 730 m of the 1.20 km length has been surveyed. The Irrigation Design and Research Board has designed the dyke wall, but the DPR can only be prepared after the entire survey is	The proposal for construction of dyke wall and surveillance road on the right bank of the Periyar River, along the Eloor-Muppattadam Industrial Area has been submitted. As a part of this proposal Initial investigation works has been completed. The Irrigation Design and Research Board has completed the design process for the dyke	The proposal for construction of dyke wall and surveillance road on the right bank of the Periyar River, along the Eloor-Muppattadam Industrial Area has been submitted. As a part of this proposal Initial investigation works has been completed. The Irrigation Design and Research Board has completed the design process for the dyke		

				complete	wall; however, the Detailed Project Report (DPR) can be prepared only after completion of the survey and demarcation process for the entire length is completed . Survey & Demarcation works is in progress, and out of the total length of 1.20 km, survey of 730 metres has been completed.. Survey work for the remaining 470 metres is yet to be completed. Letters have been sent to the Hon'ble District Collector and the Land Records Tahsildar, requesting them to take necessary steps to complete the demarcation work at the earliest	wall; however, the Detailed Project Report (DPR) can be prepared only after completion of the survey and demarcation process for the entire length is completed . Survey & Demarcation works is in progress, and out of the total length of 1.20 km, survey of 730 metres has been completed.. Survey work for the remaining 470 metres is yet to be completed. Letters have been sent to the Hon'ble District Collector and the Land Records Tahsildar, requesting them to take necessary steps to complete the demarcation work at the earliest		
C(i)	Fencing of the river banks along the stretches of waste disposal (Edamula stretch)	Cochin Municipal Corporation	1-2 years	Fencing work for the Aryanpadam canal is in the budget. Permission granted for only 40 cameras , which are being installed in 24 Smart City wards. A proposal	The fencing work of the Aryanpadam stream has been presented in the budget. Permission has been received for only 40 cameras. They are being installed in 24	The fencing work of the Aryanpadam stream has been presented in the budget. Permission has been received for only 40 cameras. They are being installed in 24		

C(iii)	Beautification of the river stretches (Edamula stretch)	Cochin Municipal Corporation	1-2 years	for 40 AI cameras for water body and waste dumping monitoring has been presented to the committee.	wards of the Smart City. A proposal for 40 AI cameras for monitoring the water body and waste dumping into it has been presented to the committee.	wards of the Smart City. A proposal for 40 AI cameras for monitoring the water body and waste dumping into it has been presented to the committee.		

ACTION BY GROUND WATER DEPARTMENT

Sl. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Progress in the month of september2024	Progress in the month of october 2024	Progress in the month of november 2024	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks					
2	B(ii)	Ground water recharging / rain water harvesting					
3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps					
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices					

Analysis report of polluted river stretches-R Periyar, R- Chithrapuzha,R-Kadambrayar, R-Chalakudy For the month of December 2025

STNCod e	Sampling Date	Sampling Time	StnName	Type Of Water Body	Name Of Water Body	River Basin	
17	30.12.2025	11:15	Periyar at Eloor	River	Periyar River		
1338	18.12.2025	10:50	Periyar at SDP Aluva	River	Periyar River		
2334	06.12.2025	11:20	Periyar at Pathalam	River	Periyar River		
2335	06.12.2025	1:20	Periyar at Kalamassery	River	Periyar River		
3468	18.12.2025	11:15	Periyar at KWA Aluva	River	Periyar River		
2337	16.12.2025	11:10	Kadambrayar At Brahmapuram	River	Kadambrayar River		
2338	16.12.2025	10:45	Kadambrayar At Manackakadavu	River	Kadambrayar River		
1573	16.12.2025	11:25	Chithrapuzha At Irumpanam	River	Chithrapuzha River		
1154	18.12.2025	1:15	Chalakudy at Pulikkakadavu	River	Chalakudy River		

Sl. No.	Parameters	Values								
		Station Code								
		17	1338	2334	2335	3468	2337	2338	1573	1154
1	Temperature, °C	27	27	27	28	27	28	28	28	27
2	Dissolved Oxygen, mg/l	8.0	7.7	7.8	7.5	8.0	6.5	6.0	6.4	8.0
3	pH	7.0	8.0	7.1	7.3	7.9	10.0	7.3	9.8	7.6
4	Conductivity, umhos/cm	9570	50	172	47	53	4390	142	4370	219
5	BOD, mg/l	1.9	1.9	2	1.6	2.3	2.9	3.1	6.6	1.7
6	Nitrate-N, mg/l	0.03	0.21	0.36	0.31	0.15	0.89	0	0.6	0.32
7	Turbidity, NTU	1.6	0.7	2.2	2.4	0.2	4.1	2.9	1.4	0.2
8	Phenolphthalein alkalinity	0	0	0	0	0	5	0	5	0
9	Total Alkalinity, as CaCO3	25	12	15	14	15	55	26	49	15
10	Chloride, mg/l	3199	6	37	5	7	1400	23	1400	55
11	COD, mg/l	5.6	5.6	5.6	4.8	6.4	8.8	9.6	20	4.8
12	TKN, mg/l	7.84	0	1.12	1.12	0	6.72	5.6	6.72	3.36
13	Ammoniacal-N, mg/l	2.8	0	0.2	0.4	0	0.23	0.7	1.22	0.73
14	Total Hardness, as CaCO3 mg/l	950	12	37	13	15	430	27	430	45
15	Calcium, as CaCO3 mg/l	240	9	32	9	11	150	22	240	40
16	Magnesium as CaCO3, mg/l	710	3	5	4	4	280	5	190	5
17	Sulphate, mg/l	227.5	0	0	0	0	62.5	1.2	197.5	0
18	Sodium, mg/l	2079	3.9	20	3.3	3.7	910	15	910	29
19	Total Dissolved Solids, mg/l	5927	29	97	26	34	2580	78	2706	126
20	Total Fixed Solids, mg/l	4742	23	78	21	27	2064	62	2165	101
21	Total Suspended Solids, mg/l	2	0	33	28	0	0	0	0	1
22	Phosphate, mg/l	0.3	0.1	0	0	0.9	2.1	0.1	2.3	0.1
23	Boron, mg/l	0.457	BDL	BDL	BDL	BDL	0.179	BDL	0.168	BDL
24	Potassium, mg/l	50	1	1.00	0.5	0.5	15	2	17	4
25	Fluoride, mg/l	0.141	0.032	0.041	0.028	0.027	1.004	0.054	1.106	0.028
26	Total Coliform, MPN/100 ml	3200	530	49000	4300	63	5300	2400	3400	6300
27	Feacal Coliform, MPN/100 ml	920	400	210	410	24	1300	NIL	1500	1
28	Feacal Streptococci, MPN/100ml	390	NIL	NIL	5	NIL	40	7	53	NIL

NGT Progress Report for the Month of November 2025

Irrigation North Circle, Kozhikode						
Sl.No	Name of River and works	FS Amount and No.	AS Amount and No.	TS Amount and No	Present status	Remarks
1	2	3	4	5	6	7
KALLAI RIVER						
1	Desilting of Kallai river from Kaduppinj to Kothi in Kozhikode Corporation .		Resolution No.90 dated 15/2/2021, 64 dated 30/12/2021 and 67 dated 2/7/2024 of Kozhikode Municipal corporation for Rs.1297.704lakhs	IDKkd/2021-2022/2018/4170/IA dated 7/3/2022 of CE I&A for Rs. 790 Lakhs	site hand over on 12/09/2024	Dredging work completed13% .
2	Providing chain linked fencing on both sides of Ibrahim bridge across Ibrahim thode of Kallai river in Kozhikode Corporation.				DPR Submitted for FS	DPR amounting to 2.52 lakhs submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd.20-07-2023
3	Providing fencing on Mooriyad road bridge at Kozhikode Corporation		AS/59D/23/33744 dated 04/03/2024 of CE I&A Tvm 16.00 lakhs	IRR/IA/EST_TS/26/2023_5_1_1 dated 29/05/2024 13 lakhs	Work completed	(Work completed 100%).Bill paid to contractor on 26.05.2025
4	GENERAL-Providing chain linked fencing at kallai River-Both sides of Kothi Bridge in Kozhikode Corporation.-General Civil Work		AS/59D/23/33130 dated 07/02/2024 28.3 lakhs	IRR/IA/EST_TS/8928/2022_5_1_1 dated 24/04/2024 28.3 lakhs	site hand over on 22/08/2024	Work completed 100%.Bill paid to contractor on 21.07.2025
KUTTIYADI RIVER						
1	Providing chain linked fencing on both sides of Gulikapuzha bridge across Kuttiyadi river in Velom Panchayath.		AS/59D/23/33132 dated 07/02/2024 24.6 lakhs	IRR/IA/EST_TS/8978/2022_5_1_1 dated 11/03/2024 24.2 lakhs	Work completed	Work completed on 8/11/2024.Bill paid to contractor on 20.03.2025

UPPALA RIVER						
1	Tying of net on both sides of the bridge - Rejuvenation work of Uppala river- providing fencing on both sides of Uppala NH bridge in Mangalpady Gramapanchayath of Kasaragod district					As the proposed NH upgradation works are going on and these works are to be carried out along with the bridges which are part of the NH, it would not be desirable to carry these works now. A letter has been sent from Irrigation division Kasargode to the Project Director, Project Implementation unit, NHAI Kannur for including fencing on both sides of bridges across Uppala river which are under construction as part of NH66 widening
2	Preparation of action plan newly identified polluted river location - Uppala river - Mulinja.					As per the letter No.PCB/KSRD/DO/RPRS/2528/2015 VOL.IV dated 26.08.2025 the Environmental Engineer, KSPCB has informed the Chairperson KSPCB that no need of a new action plan for the newly identified location in Majibayal in Uppala river. Since the newly identified location is situated in between the existing polluted stretch from Poyya to Mulinja where DLTC had already framed the Action plan for restoration of polluted stretch
Tirur-Ponnanippuzha						
1	General - NGT-Rejuvenation of polluted rivers - Tirur - Ponnanippuzha - General civil work		Rs. 30.10 Lakhs AS No. AS/59D/22/25906 dtd: 29/03/2023 of CE, I&A, Tvm RS 30.10 Lakhs	Rs. 30.10 Lakhs TS No. IRR/1A/EST_TS/4907/20 22_5_1_1 dtd: 18/04/2023 of EE, Irrigation Division, Malappuram, 30.10 Lakhs	Work completed. Physical progress - 100%	Work completed bill paid (Rs 2984168/- Including GST)

2	RKI-Repair and Rehabilitation of Koottayi Regulator cum bridge across Tirur -Ponnani puzha in Mangalam Gramapanchayath in Malappuram District		Rs. 230 Lakhs, G.O(Rt)No. 122/2020/P &EA TVM, Dated.03/03/2020 Rs.230 Lakhs.	Rs. 230 Lakhs, TS No. IDMpm/2020-2021/2016/2656/IA dated.19/05/2020 of SE, INC, KKD, Rs.230 Lakhs.	Work got stuck due to conditions at site	Cracks on girders and settlement of 4 piers towards right bank has seen on 18/11/2023. So the work can be continued only after addressing the present issues. So while preparing the estimate based on the study report from KERI Peechi, the solution for the new issues also has to be finalised. Meeting held on 29/11/2023 at the office of CE I&A in the presence of CE IDRB concluded to conduct a detailed technical study by an expert team to find a solution for the existing issues. It is assigned Kerala State Highway Research Institute to study and recommend remedial solution for the existing issues. KERI Deputy Director conducted preliminary visit on 23/05/2024. A technical committee has been formed as per GO No. 488/2024/WRD dated 28/06/2024. Technical committee team inspected site on 8.8.2024. They suggested to conduct the hydrographic survey. Hydrographic survey team visited the site on 31.08.2024 to prepare the estimate. AS obtained for Rs.1,34,662/- for hydrographic survey. They completed the survey work. The Hydrographic chart, reduced level chart and cad files submitted by hydrographic survey wing are submitted to CE I & A TVM. Technical Committee meeting conducted on 10/12/24 and 10/01/25. Based on the meeting minutes of the Technical Expert committee, DPR of 18.10 crores of the recast Estimate has been submitted to CE I & A TVM on 24/05/2025.
A	PERUMBA RIVER					
1	Rejuvenation of Perumba River- Providing fencing on both side of Perumba bridge in Payyannur Municipality.				DPR Submitted for FS	DPR amounting 27.60 lakhs submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023 and 19/08/2023. Considering the utility ducts are passing through the bridge and the heavy traffic, the execution will be nearly impossible. Also new National Highway bridge is under construction just upstream of the Perumba Bridge. The traffic volume will reduce considerably. Considering these facts, the proposal may please be removed from the list.
2	Rejuvenation of Perumba River- Maintaining E-Flow : Channelisation and Desilting of Vannathipuzha at Chandapurakadavu and Paravoor kadavu in Kadannappalli- Panappuzha Panchayath.				DPR Submitted for FS	Estimate prepared as per DSR 2018 and DPR submitted for FS for 15.30 lakhs. The work, Rejuvenation of Perumba River - Maintaining E-Flow is coming under Room for River programme under the Executive Engineer (PA to SE) MI Circle Kozhikode who was in charge of Peruvamba river for Maintaining E-Flow. In Peruvamba river desilting work were executed at various locations in Kadannappalli Panappuzha Panchayath and Eramam Kuttoor Panchayath.

3	*Rejuvenation of Perumba River- Desilting Perumba thodu in Payyannur Municipality, Payyannur LA in Kannur District				DPR Submitted for FS	The flow in the perumba thodu is contaminated with the waste from Payyannur market and its surroundings. If the existing SWECB was reconstructed and its shutters were closed, the polluted water may get stagnated at the upstream side may cause serious environmental problems will be created. Hence at present construction of SWECB is not environmentally feasible. If treatment facility is provided by local self government and only fresh water releases to thodu, the SWECB can be reconstructed. Hence now only the desilting the thodu is included in the estimate and submitted for FS as per DSR 2018, for an amount of 5.46 lakhs vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023 & 19/08/2023.DPR of amount of Rs. 6.21 lakh prepared as per DSR 2021 is submitted for Fs vide this office letter No. INC-SE-KKD/69/2025-D5 Dtd. 07/11/2025 This work comes under the jurisdiction of MI Division Kannur,

B RAMAPURAM RIVER						
1	Rejuvenation of Ramapuram River-Providing fencing on Ramapuram bridge across Ramapuram river in Madayi Panchayath.		AS/59D/23/33743 dated 04/03/2024 19.00 lakhs			Work completed on 15/11/2025.
C KAVVAYI RIVER						
1	Desilting and rejuvenation of Narangathodu in Payyannur Municipality, Payyannur LA in Kannur District				DPR submitted for FS	*This work comes under the jurisdiction of MI Division Kannur. DPR submitted to CE, I&A, Tvm vide this office letter. INC-SE-KKD/69/2025-D5 Dtd. 07/11/2025 for an amount of Rs.8,68,000/-
D KUPPAM RIVER						
1	Providing fencing on Pazhayangadi Bridge across Kuppam River at Pazhayangadi in Madayi Grama Panchayath					DPR amounting 58 lakhs of "Rejuvenation of Kuppam River - Providing fencing on both sides of Kuppam bridge at Kuppam in Taliparamba Municipality and Pazhayangadi bridge at Pazhayangadi in Madayi Grama Panchayath" has been submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023. But, vide reference letter No.D3-2416/2022 Vol I dated.14/12/2023 of Executive Engineer, Thalassery has reported that on scrutiny of estimate in detail, some corrections are found. Hence the estimate is corrected accordingly and estimate amount enhanced to 69 lakhs. In which Appendix 1 is Providing fencing on Pazhayangadi bridge for which estimated cost is 26 lakhs as per DSR 2018, which is resubmitted as per DSR 2018 including 18% GST for an amount of 34 lakhs. Executive Engineer has reported that during the site visit various utility pipes were seen laid on the handrails hence, fencing can't be laid over the handrails. So the proposed work can't be executed at the site.

2	Providing fencing on Kuppam bridge (NH) across Kuppam river at Thaliparamba in Thaliparamba Municipality.				Estimate under preparation	DPR amounting 58 lakhs of "Rejuvenation of Kuppam River - Providing fencing on both sides of Kuppam bridge at Kuppam in Thaliparamba Municipality and Pazhayangadi bridge at Pazhayangadi in Madayi Grama Panchayath" has been submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023. But, vide reference letter No.D3-2416/2022 Vol I dated.14/12/2023 of Executive Engineer, Thalassery has reported that on scrutiny of estimate in detail, some corrections are found. Hence the estimate corrected accordingly and estimate amount enhanced to 69 lakhs. Pollution abatement study along the polluted stretch of the Kuppam river was conducted by WRD in collaboration with Vimal Jyothi Engineering college and the college submitted the DPR to the Chief Engineer. In this DPR, fencing on Kuppam bridge is proposed by the Engineering College for an amount of 22.70 Lakhs in DSR 2016. The estimate is then resubmitted as per DSR 2018 for an amount of 30 lakhs. On scrutiny of estimate in detail, some additions are necessary. Approximate estimate comes to 35 Lakhs. As part of new bypass road by NHAI a new bridge parallel to the old bridge is under construction. So the utility of the bridge may be limited in the future and the work may not be technically viable.
3	Regulating activities in flood plain zone, protection and management of flood plain zone Rejuvenation of Kuppam River - Flood plain Zone management : Construction of Marginal Earthen Bund at peringel In Ezhome Grama Panchayath					This work shall not be considered until adequate technical study is conducted (Vide letter No.752755/C1/16/WRD Thiruvananthapuram dtd 30/09/2020 of the Additional Chief Secretary to Government.
4	Greenery development- Plantation plan. Plantation on both sides of the river, setting up biodiversity parks on flood plains by removing encroachment					In order to identify the land for plantation on both sides of the river, the boundary of government land should be fixed by the Revenue Department. Eviction of encroachment should be done. For the same, District collector Kannur has already been addressed from Executive Engineer's office and subsequent bio cover works and planting trees have to be done by social forestry department.

5	Issues relating to E- flow, maintaining minimum environmental flow of river (by having watershed management provisions)				Initially the DPR was submitted for 30 lakhs. But as per the letter No.752755/C1/16/WRD Thiruvananthapuram dtd 30/09/2020 of the Additional Chief Secretary to Government, the estimate was recasted for an amount of 10.40 lakhs as per DSR 2016 by assessing the quantity of silt by scientific method. DPR was resubmitted as per DSR 2018 for an amount of Rs. 12.80 lakhs for FS . The work includes desilting from Kooverikkadavu and Kattambalikkadavu. The work, Rejuvenation of Kuppam River - Maintaining E- Flow is coming under Rejuvenation of Kuppam river under Room for River programme. The Executive Engineer , Inland Navigation Division, Kannur was in charge of the Kuppam River. The work of silt removal from Kooverikkadavu is completed and was executed by the Assistant Engineer, Inland Navigation Section, Kannur. Since sand deposit was identified at Kattampalikkadavu, it was not removed under "Room for River" campaign. It should be done after sand audit and the procedure should be followed and it cannot be executed as a work by tender method. So this work may be treated as completed.


Superintending Engineer

ACTION PLAN FOR RIVER KALLAYI , KERALA

Kerala State Pollution Control Board,District Office,Kozhikode

NATIONAL MISSION FOR CLEAN GANGA

Format for submission of monthly progress report by state/UTs

(Hon’ble NGT in the matter of OA.No.673/2018dated6/12/2018) For

the month of DECEMBER 2025– Kallayi polluted river stretch

Sl.No.	Activity to be monitored	Timeline	Submission of progress by state/UT-compliance status
1	Ensure 100%treatment of sewage at least in-situ remediation		
2	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STP must be ensured.		
3	Timeline for completing all steps of action plans including completion of setting up STP and their commissioning		
4	Chief secretaries may setup appropriate monitoring mechanisms at the state level ● Specifying accountability of nodal authorities not below the secretary level ● Chief secretaries may have an accountable Person attached in their office for this purpose		
	● Monitoring at the state level must take place		

5	Progress report may be furnished by the state/UTs to ● Secretary,ministry of Jal Shakti ● Member secretary,CPCB		
5.1	Progress report may be comprised of details along with completion timeline on: (i) Identification of polluting source including drains contributing to river pollution and action as per NGT order on in situ treatment. (ii) <u>status of STPs,I&D and sewage networks</u> Details of Existing Infrastructure,Gap Analysis,Proposed along with completion timeline (iii) <u>status of CETPs</u> Details of existing CETP and ETP infrastructure,Gap analysis,proposed along with completion timeline,No.of industries and complying status. (iv) <u>status of solid waste management&details of processing facilities</u> Details of existing infrastructure,Gap analysis proposed along with completion timeline (v) Latest water quality of polluted river,its tributaries,drains with flow details and ground water quality in the catchment of polluted river; (vi) preventing dumping of waste and scientific waste management including bio-medical waste plastic waste and decentralizing waste processing,including waste		

	generated from hotels,ashrams etc. (vii) Ground water regulation (viii) Adopting good irrigation practices (ix) protection and management of flood plain zones(FPZ), (x) Rainwater harvesting (xi) Maintaining minimum environmental flow of river (xii) Plantation on both sides of the river (xiii) Setting up bio diversity parks on flood plains by removing encroachment		Monthly progress report enclosed

KOZHIKODE CORPORATION

No.	Activity	Implementing agency	Time line	Progress in the month of OCTOBER 2025	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% works completed	Details of works remaining
1	Identification of illegal outlets into storm water drain and issue Notice to such units	Kozhikode Corporation	30.12.2020			Continuing random inspections and imposing fine regularly	Continuing random inspections and imposing fine regularly	On going
2	Waste to energy project proposed at Njeliyamparamba	KSIDC	30.06.2021			Project dropped		
3	Establishment of Aerobic compost units	Kozhikode Corporation	Completed and functioning			Completed and functioning	100%	
4	Segregation of solid waste at source-level and treatment of household wastes	Kozhikode Corporation	30.06.2019			Completed	100% Coverage	

5	Setting up of rendering treatment plant for chicken stall wastes	Kozhikode Corporation	30.06.2019			Rendering plant installed in Thamarassery Panchayath(Fresh cut rendering plant).Chicken waste generated from chicken stalls under Kozhikode corporations are being transported to rendering plant at Thamarassery. 217chicken stall handed over the chicken waste in in to fresh cut rendering plant	100% Coverage	Functioning
6	Implementation of Green protocol unit	Kozhikode Corporation	30.06.19			On going		Ongoing
7	Setting up of common STP of (13MLD) (6 MLD At Kothibridge)&(7 MLD At Avikkal	Kozhikode Corporation	31.03.2020			Project dropped due to Public protest and court cases..	Project dropped	

8	Implementation of 27 MLD STP at Kottoli(Sarovaram)					After receiving Council approval, the project was submitted to the Government for Administrative sanction. The AS was deferred and directed to revise the proposal to increase the number of connections. KWA is revising the proposal. The administrative sanction for constructing a 27MLD STP at Kottoli(Sarovaram) was received on 08.01.2024. Technical sanction is pending with the KWA		27 MLD STP with 220 KLD FSTP as co-treatment with 54 km network
9	Cleaning of Canoli canal	Kozhikode Corporation	Periodical			Periodical cleaning		Continuous - seasonal
10	Purchasing of Solar Boat for Canoli canal cleaning	Kozhikode Corporation	31.03.2020			Project dropped		Project dropped

11	Installation of CCTV Camera for the Identification and monitoring of illegal activities	Kozhikode Corporation				On going		On going
12	Establishment of Mobile Septage Units	Kozhikode Corporation	31.03.2020			Project dropped		Project dropped
13	Action taken against dumping of wastes into river and public places	Kozhikode Corporation	On going action			Continuing random inspections and imposing fine regularly	Continuing random inspections and imposing fine regularly	Continuous
14	Cleaning of B.K canal	Kozhikode Corporation	31.03.2020			Completed	100%	
15	Establishment of treatment plant at Medical college (3MLD plant) 15.1-2 MLD plant proposed 15.2-1 MLD plant proposed	Kozhikode Corporation	31.03.2020			Completed and functioning.	100%	Functioning

16	Construction of drains at Y.M.RC Ayyankarcolony	Kozhikode Corporation	31.03.2020			90% coverage	90%	Progressing
17	Provide facility for MRF,RRF,Super MRF Three units existing 17.1 Njeliyanparamb 17.2 Industrial estate 17.3 Mayor Bhavan jayanthi nagar colony	Kozhikode Corporation				3.MRFand 5.MCFare already existing. New project going on.		New project under consideration
18	Identification of illegal outlets from house to storm water drain and issue Notice to such Houses	Kozhikode Corporation				On going - Continuous process	On going - Continuous process	Continuous
19	Establishment of Plastic shredding unit	Kozhikode Corporation				Project started		
20	Establishment of slaughtering unit	Kozhikode Corporation				Project under Consideration	Project under Consideration	Not reported
21	Cleaning of drains in Kozhikode Town	Kozhikode Corporation				On going - Continuous process		Continuous

Perumanna Grama Panchayath

No	Activity	Implementing agency	Progress in the month of OCTOBER 2025	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% works completed	Details of works remaining
1	Outlets into storm Water drain and issue notice	Perumanna Panchayat, kozhikode			Inspection conducting regularly	Continuous	
2	Establishment of six aerobic compost units in panchayat	Perumanna Panchayat , Kozhikode through MGNREGS			Work completed(100% coverage)	100% coverage	Completed
3	Collection and segregation of solid waste in the river	Perumanna Panchayat			Work completed	Completed	
4	Setting up of 360 soak pit plant in all houses near the river area and panchayat	Perumanna Panchayat through MGNREGS			Progressing 80% completed	80% completed	Progressing
5	Implementation of 360 compost unit near river side and panchayat	Perumanna Panchayat , Kozhikode through MGNREGS			80% completed Progressing	80% completed	Progressing
6	Implementation of water flow project (Aluvangal Thazham Perumbatta Elamanapadam, Valiyapadam. Mampuzhthode	Perumanna Panchayat			Technical sanction obtained. Tender procedure completed.		

	Naveekarana, project no 260/2021 project cost 16.67 Lakhs).						
8	Cleaning of Mambuzha river (project name : Mambuzha water flow restoration, project no 01/2018-19	District Panchayat , Kozhikode			Work has been completed by District Panchayat, Kozhikode	Completed	
9	Establishment of 18 nos of mini MCF in different wards including Payyadi methal where the river is flowing	Perumanna Panchayat , Kozhikode through MGNREGS			Completed.	Completed.	
10	Collection of plastic Waste from the river	Perumanna Panchayat			Process will be done every year	Continuous	Continuous

Peruvayal Grama Panchayath

No .	Activity	Implementing agency	Time line	Progress in the month of OCTOBER 2025	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	%works completed	Details of works remaining
1	Outlet in storm water drain and issued notice	Peruvayal G P	Continuous process			Ongoing		Continuous
2	Establishment of 56 units anaerobic composed unit in panchayat.	Peruvayal GP through MGNREGS	04/2023 to 03/2021			Ongoing	Ongoing	Continuous process
3	Setting up of 379 soak pit plant in all houses	Peruvayal G P	04/2023 to 03/2024			Completed	Completed	Completed
4	Cleaning of Mambuzha river (Mambuzha renovation) project no :190/2017-18	District panchayat Kozhikode	2017-2018			Completed	Completed	

5	Establishment of 8 numbers of mini MCF	Peruvayal GP through MGNREGS	04/2023 TO 03/2024			80% completed	80% completed	No further progress reported
6	Collection of plastic waste from the river	Peruvayal GP	Continuous process			Work completed	100% coverage	
7	Collection and segregation of solid waste in the river	Peruvayal GP	Continuous process			Ongoing	Ongoing	Continuous process
8	Establishment of Bio gas plant	Peruvayal GP	2023-24			Work completed (70% coverage)	70% coverage	No further progress reported
9	Well recharge	Peruvayal GP through MGNREGS	2023-24			Work completed (60% coverage) .	60% coverage	No further progress reported

Mavoor Grama Panchayat

No.	Activity	Implementing agency	Time line	Progress in the month of OCTBER 2025	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	%Work completed	Details of work remaining
1	Transportation of waste management to refinement unit	Konnari Advanced Polymers Limited	2022-23			Completed	100%	
2	Cleaning of Cherupuzha (Kuniyakadav to Thenghilakadav)	Mavoor GP	2022-23			Completed	100%	
3	Valayannor Thodu cleaning	MGNREGS	2022-23			Completed		
4	Arayancode kalchira Thodu Cleaning	MGNREGS	2022-23			Completed		
5	Vellaram Kandi Chirakkal thazham thodu	Mavoor GP	2023-24			Completed	100%	
6	Ring compost	Mavoor GP	2023-24			Completed		
7	Kadayan thodu	MGNREGS	2023-24			Completed	100%	
8	Chalippadam Punchappadam thodu	MGNREGS	2023-24			Completed	100%	
9	Puthiyottil thazham Elaram thodu	MGNREGS	2023-23			Completed	100%	

OLAVANNA GRAMAPANCHAYAT

No	Activity	Implementing Agency	Time line	Progress in the month of OCTOBER 2025	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% Works Completed	Details Of Remaining
1	Collection of plastic waste from the river	Olavanna Gramapanchayat	Continuou s process			Completed	Completed	
2	Collection of segregation of solid waste in the river	Olavanna Gramapanchayat	Continuou s process			Completed	Completed	
3	Cleaning of Mambuzha river	Olavanna Gramapanchayat	Continuou s process			Completed	Completed	Completed
4	Well recharge	Olavanna Gramapanchayat through MGNREGS	4/2023 To 3/2024			Completed	100%	
5	Setting up of soak pit in houses	Olavanna Gramapanchayat through MGNREGS	4/2022 To 3/2024			Completed	100%	
6	Action taken against dumping of waste in to river	Olavanna Gramapanchayat	Continuou s process			Process continuing	100%	Completed
7	Collection of non-biodegradable waste	Harith karma sena	Throughout the year			Process continuing	Process continuing	Continuous

IRRIGATION DEPARTMENT

N o	Activity	Implementing Agency	Timeline	Progress in the month of OCTOBER 2024	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% Works Completed	Details Of Remaining Work
1	Desilting of Kallayi river from Kaduppini to Kothi in Kozhikode Corporation	Irrigation department	31.03.2021	Desiltation of Kallai river under urban agglomeration scheme SHO on 12.09.2024 and Dredging work started, Work Completed 14 %			14%	
2	Provide fencing on the sides of the Bridge	Irrigation department	31.03.2021	SHO on 22.08.2024 for providing chain linked fencing on Kothi bridge(Work in progress 30% completed) & SHO on 20.07.2024 for provididng chain linked fencing for Mooriyad road bridge(Work 100% completed)				
3	Dredging , Desilting & removal of weeds from E K canal (11.21 km)	Irrigation department	31.07.2019	Work entrusted to Kerala Waterways & Infrastructure Ltd (KWIL)				
4	Bio park in Kozhikode District	Irrigation department		Land for the proposed bio park is to be demarcated by the Revenue authorities after necessary boundary survey and subsequent bio cover works are to be done by the Social Forestry Department				
5	Flood prone mapping in Kozhikode District	Irrigation department		Action to be taken by the Hydrology Wing of Irrigation Department as this needs data collection, scientific analysis and modelling skills				

Kerala State Pollution Control Board

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of OCTOBER 2025	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% works completed	Details of works remaining
1	River water quality monitoring-Kallayi river National Water Quality Monitoring Programme (NWMP)	KSPCB	Ongoing ; monthly frequency			Process continuing		
2	River water quality monitoring-Kallayi rivers State Water Monitoring Programme,KSPCB fund(SWMP)	KSPCB	Ongoing. Seasonal monitoring- pre-monsoon , monsoon , post-monsoon			Process continuing		
3	Inspection and effluent quality monitoring of the flats,industrial units,service stations, hospitals, Hotels etc. In Malappuram Municipal area	KSPCB	Ongoing Interval: Red- 1 month. Orange-3months. Green-6months.			Process continuing		

Suchitwa Mission

No. (as per Action Plan)	Activity	Implementing agency	Timeline	Progress in the month of OCTOBER 2025	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% works completed	Details of works remaining
1	Board displaying messages against dumping to be placed in river banks	Suchitwa Mission	15.07.19			Process continuing		

Action Plan by Ground Water Department

No. (as per Action Plan)	Activity	Implementing agency	Progress in the month of SEPTEMBER 2025	Progress in the month of OCTOBER 2025	Progress in the month of DECEMBER 2025	% works completed	Details of works remaining
B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones / blocks	Ground Water Department			As per Ground water resources of Kerala,2017 estimate, Kozhikode Block comes under the Kallai river basin and the block is safe with stage of ground water Extraction 68.49%		
B(ii)	Ground water recharging/ rain water harvesting	Ground Water Department			The average pre - monsoon ground water level is 7.23 mbgl. Ground water Department has implemented 3 no of dug well recharge schemes at Kozhikode block		
B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/ bore wells or hand pumps	Ground Water Department			Ground water Department has 1 observation Piezometer (BW) in the river stretch.)		
B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices	Ground Water Department			The total irrigation draft in the Block area is 488.76 ha.m.)		

Action plan by irrigation Department

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of OCTOBER 2025	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% works completed	Details of works remaining
E	Dredging and desilting	Irrigation Department	3 years			Desiltation of Kallai river under urban agglomeration scheme SHO on 12.09.2024 and Dredging work started, Work Completed 14 %	14%	
E	E-flow (by micro water shed management)	Irrigation Department	3 years			Action to be taken by the hydrology wing of irrigation department as this needs data collection, scientific analysis and modeling skills. The matter has been communicated to the Hydrology wing Assistant Engineer at Kozhikode.		
E	Flood plain zone (protection and management)	Irrigation Department	3 years			Action to be taken by the hydrology wing of irrigation department. The matter has been communicated to the Hydrology wing.		
E	Greenery development (plant in trees on the banks)	Irrigation Department	3 years			Not reported		Not reported

KERALA STATE POLLUTION CONTROL BOARD

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DISTRICT OFFICE, THIRUVANANTHAPURAM
ജില്ലാ ഓഫീസ്, തിരുവനന്തപുരം

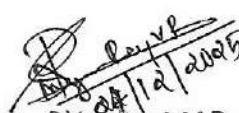
T. C. 12/96 (4,5), PLAMOODU JN., PATTON P.O, THIRUVANANTHAPURAM - 695 004
ടി.സി. 12/96 (4,5), പ്ലാമൂട് ജംഷൻ, പട്ടം പി.ഒ, തിരുവനന്തപുരം - 695 004



ANALYSIS REPORT

No: 202868

22/12/2025

Source		STP Muttathara, Thiruvananthapuram		
Sample Received From		NAMP Operator	Date of sample collection	02/12/2025
Date of Receipt		02/12/2025	Sample ID	E13
Sl. No.	Parameter	Unit	Value	Permissible Limit
1	pH	-	7.0	6.5 - 9.0
2	Total Suspended Solids	mg/L	40	< 50
3	BOD (3 days @ 27°C)	mg/L	9.0	20
4	COD	mg/L	40	-
5	Oil & Grease	mg/L	BDL	-
6	Fecal Coliform	MPN/100ml	Nil	<1000
Remarks: BDL-Below Detection Level				
Verified by  AISWARYA RAJ V.R. Assistant Scientist Scientist-in-Charge of Analysis				
 HIMA S.H. Assistant Environmental Scientist				

KERALA STATE POLLUTION CONTROL BOARD

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DISTRICT OFFICE, THIRUVANANTHAPURAM
ജില്ലാ ഓഫീസ്, തിരുവനന്തപുരം

T. C. 12/96 (4,5), PLAMOODU JN., PATTOM P.O., THIRUVANANTHAPURAM - 695 004

ടി.സി. 12/96 (4,5), പ്ലാമൂട് ജംഗ്ഷൻ, പട്ടം പി.ഒ, തിരുവനന്തപുരം - 695 004



ANALYSIS REPORT

No: 202867

22/12/2025

Source		CETP KINFRA		
Sample Received From		NAMP Operator	Date of sample collection	04/12/2025
Date of Receipt		04/12/2025	Sample ID	E2
Sl. No	Parameter	Unit	Value	Permissible Limit On land for irrigation
1	pH	-	7.1	6.0-9.0
2	Total Suspended Solids	mg/L	3.0	100
3	Total Dissolved Solids	mg/L	702	2100
4	BOD (3 days @ 27° C)	mg/L	2.4	100
5	COD	mg/L	40	250
6	Oil & Grease	mg/L	BDL	10
7	Ammoniacal Nitrogen	mg/L	8.3	NS
8	Nitrate Nitrogen	mg/L	13.3	NS
9	Total Kjeldahal Nitrogen	mg/L	30.1	NS
10	Phosphates	mg/L	0.0321	NS
11	Chlorides	mg/L	324	1000
12	Sulphates	mg/L	1.2278	1000
13	Fluoride	mg/L	0.8	2
14	Total Residual Chlorine	mg/L	2	1
15	Phenolic Compounds	mg/L	BDL	1
16	Sulphides	mg/L	BDL	2
17	Cyanide	mg/L	BDL	NS

Remarks: BDL-Below Detection Level , NS -Not Specified

Verified by

[Signature]
AISWARYA RAJ V.R.

Assistant Scientist
Scientist-in-Charge of Analysis

[Signature]
HIMA S.H.

Assistant Environmental Scientist

KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

DISTRICT OFFICE, THIRUVANANTHAPURAM
ജില്ലാ ഓഫീസ്, തിരുവനന്തപുരം

T. C. 12/96 (4,5), PLAMOODU JN., PATTOM P.O, THIRUVANANTHAPURAM - 695 004

ടി.സി. 12/96 (4,5), പ്ലാമൂട് ജംഗ്ഷൻ, പട്ടം പി.ഒ, തിരുവനന്തപുരം - 695 004

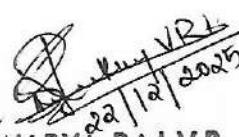
**ANALYSIS REPORT**

No: 202866

22/12/2025

Source		Medical College Hospital, Thiruvananthapuram.		
Sample Received From		NAMP Operator	Date of sample collection	04/12/2025
Date of Receipt		04/12/2025	Sample ID	E1
Sl. No.	Parameter	Unit	Value	Permissible Limit
1	pH	-	3.4	6.5 - 8.5
2	Total Suspended Solids	mg/L	9.0	10
3	BOD (3 days @ 27°C)	mg/L	0.6	3
4	Oil & Grease	mg/L	0.7	1
5	Bio-assay Test	-	100% fish died within 1 hour.	90% survival of fish after 96 hours in 100% effluent prior to disinfection.
6	COD	mg/L	44	-
7	Total Coliform	cfu/100ml	Nil	-
8	Fecal Coliform	cfu/100ml	Nil	-

Verified by



AISWARYA RAJ V.R.
Assistant Scientist
Scientist-in-Charge of Analysis



HIMA S.H.
Assistant Environmental Scientist



ജില്ലാ ഓഫീസ്, ആലപ്പുഴ
കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്
KERALA STATE POLLUTION CONTROL BOARD
DISTRICT OFFICE, ALAPPUZHA

എസ്.എൻ.ടി.വി.സദനം, ന്യൂ ചാത്തനാട്, ഹെഡ് പോസ്റ്റ് ഓഫീസ്, ആലപ്പുഴ - 688001

SNV Sadhanam, New Chathanad, Head Post Office, Alappuzha - 688001

E-mail: alpy.pcb@gmail.com Telephone : 0477 - 2235384 web: www.keralapcb.nic.in



ഓൺലൈനിൽ അപേക്ഷകൾ സമർപ്പിക്കുന്നതിന് keralapcbonline.com എന്ന വെബ്സൈറ്റ് ഉപയോഗിക്കുക.

ANALYSIS REPORT (WATER/EFFLUENT/SOLID WASTE)		No. 463		Date: 31/12/2025	
Source		Sea food park ,Aroor, Alappuzha			
Date of sample Collection		02/12/2025		Sample received from EE	
Ref.No.				Period of analysis	
Date of Receipt		02/12/2025			
Scientist-in-charge of analysis				ASSISTANT SCIENTIST	

Sl.no	Parameter	Unit	Value				
			Sample No.				
			SFP				Limit*
1	pH	-	7.5				6.5-8.5
2	Suspended Solids	mg/L	5				100
3	BOD	mg/L	11.62				30
4	Oil & grease	mg/L	BDL				10
Details of samples:							
Remarks:							

* - Limit as per the circular of treated effluent standards for sewage treatment plants

Verified 
31/12/2025

AJIS MARIA
ASSISTANT SCIENTIST

ജില്ലാ ഓഫീസ്, ആലപ്പുഴ
കേരളസംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്
KERALA STATE POLLUTION CONTROL BOARD
DISTRICT OFFICE, ALAPPUZHA

എസ്.എൻ.വി.സദനം, ന്യൂ ചാത്തനാട്, ഹെഡ് പോസ്റ്റ് ഓഫീസ്, ആലപ്പുഴ - 688001

SNV Sadhanam, New Chathanad, Head Post Office, Alappuzha - 688001

E-mail: alpy.pcb@gmail.com Telephone : 0477 - 2965384 web: www.kspcb.kerala.gov.in ഓൺലൈനിൽ

അപേക്ഷകൾ സമർപ്പിക്കുന്നതിന് <https://keralapcbonline.com> എന്ന വെബ്സൈറ്റ് ഉപയോഗിക്കുക.



“ഭരണഭാഷ- മാതൃഭാഷ”

ANALYSIS REPORT (WATER/EFFLUENT/SOLID WASTE)		No. 459	Date: 24/12/2025
Source	KSIDC Mega food park, pallipuram, cherthala		
Date of sample Collection	11/12/2025	Sample received from	AE4
Ref.No.		Period of analysis	
Date of Receipt	11/12/2025		
Scientist-in-charge of analysis		ASSISTANT SCIENTIST	

Sl.no.	Parameter	Unit	Value			
			Sample No.			Limit*
1	pH	-	7.7			6.5 – 8.5
2	Suspended Solids	mg/L	21.2			100
3	BOD	mg/L	30.24			30
4	Oil & Grease	mg/L	BDL			10
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Details of samples						
Remarks: BOD value exceeded the limit						

*- Limit as per the consent

Verified
29/12/2025
AJIS MARIA
ASSISTANT SCIENTIST

KERALA STATE POLLUTION CONTROL BOARD

കേരളസംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്



DISTRICT OFFICE (ERNAKULAM-II), PERUMBAVOOR

ജില്ലാകാര്യാലയം (എറണാകുളം-2) പെരുമ്പാവൂർ

PMC. 20/733, Near Kallumkal Auditorium, Perumbavoor - 683 542

പിഎംസി. 20/733, കല്ലുകൽ ഓഡിറ്റോറിയം സമീപം, പെരുമ്പാവൂർ - 683 542



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web: www.kspcb.keralagov.in

PCB/PBR/LAB/1/2013

Date: 04.12.2025

ANALYSIS REPORT

Source : SEPTAGE TREATMENT PLANT, BRAHMAPURAM
Sample Point : FILTERED EFFLUENT TANK
Date of sampling : 14.11.2025
Date of receipt : 14.11.2025
Collected by : AS
Analysed by : JSAI & JSA II
Sample ID : PCB/PVR/138/2025-26

Sl. No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		6.53	APHA, 4500 H ⁺ B 24 th Edition 2023	5.5-9.0
2	BOD	mg/L	3	APHA, 5210 B, 24 th Edition 2023	30
3	COD	mg/L	24	APHA, 5220 B, 24 th Edition 2023	250
4	OIL AND GREASE	mg/L	BDL	APHA, 5520 B, 24 th Edition 2023	10
5	TOTAL SUSPENDED SOLIDS	mg/L	BDL	APHA, 2540-D, 24 th Edition 2023	100
6	PHOSPHATES	mg/L	BDL	APHA-4500 P-E 24 th Edition 2023	5
7	NITRATES	mg/L	1.44	APHA 4500-NO ₃ -E, 24 th Edition 2023	10
8	SULPHATES	mg/L	11.89	APHA, 4500-SO ₄ , 24 th Edition 2023	1000
9	SULPHIDES	mg/L	2.67	APHA-4500-S ²⁻ D 24 th Edition 2023	2
10	AMMONIACAL NITROGEN	mg/L	1.06	APHA, 4500-NH ₃ -F, 24 th Edition 2023	50
11	PHENOLIC COMPOUNDS	mg/L	BDL	APHA, 5530 C, 24 th Edition 2023	1
12	FAECAL COLIFORM	cfu/100mL	35	APHA 9222 D, 24 th Edition 2023	<1000
13	FAECAL STREPTOCOCCI	cfu/100mL	38	APHA 9230 A, 24 th Edition 2023	-

BDL - BELOW DETECTION LIMIT


ASHNA SHAJI
ASSISTANT SCIENTIST



**KERALA STATE POLLUTION CONTROL BOARD
CENTRAL LABORATORY**

**കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ
ബോർഡ്
കേന്ദ്ര പരീക്ഷണശാല**



TC 8525

TEST REPORT

Analysis Report No.	PCB/CL/1442/2025-26	Date	03.12.2025	Format No.	PCB/CL/CH/F-7
Ref. No.	PCB/EKM/DO-1 Dated 01.11.2025	Date of Collection	31.10.2025		
Received From	Environmental Engineer	Date of Receipt	01.11.2025		
No. of Sample	01	Period of Analysis	03.11.2025 – 29.11.2025		
Source	Elamkulam CSTP.	Scientist-in-charge	Sreeja K.B		
Sample Condition	Fit for analysis	Sample Type	Water Samples		
Sample collected by	The Environmental Engineer, District Office, Ernakulam	Sample volume & container type	Plastic Can		
Sample preservation	As per APHA/IS:3025 (Part-1)	Type of Test	Chemical		

SAMPLE ID : ECS TP

Sl. No	Parameters	Unit	Value	Test Method	Lowest Detection Limit
1	pH	---	7.41	APHA, 4500-H+B, 24 th Ed., 2023	1
2	Total Suspended Solids	mg/L	16.6	APHA, 2540-D, 24 th Ed., 2023	10 mg/L
3	Ammonia as Nitrogen	mg/L	2.94	APHA-4500 NH ₃ -C, 24 th Ed., 2023	0.02 mg/L
4	Free Ammonia	mg/L	0.053	GEMS OPERATIONAL GUIDE WHO	0.003 mg/L
5	BOD	mg/L	1.2	IS 3025 Part(44): 2023	1 mg/L
6	COD	mg/L	24	APHA, 5220-B, 24 th Ed., 2023	4 mg/L
7	Oil & grease	mg/L	BDL	APH, 5520-B, 24 th Ed., 2023	5 mg/L
8	Nitrite as Nitrogen	mg/L	0.295	APHA, 4500-NO ₂ -B, 24 th Ed., 2023	0.02 mg/L
9	Nitrates as Nitrogen	mg/L	4.515	APHA, 4500-NO ₃ , 24 th Ed., 2023	0.01 mg/L

GANDHI NAGAR, KOCHI - 682 020 ഗാന്ധിനഗർ, കൊച്ചി - 682 020
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Certified for OHSMS (ISO 45001:2018)



0008

10	Total Kjeldahl Nitrogen	mg/L	5.88	APHA, 4500-N org B, 24 th Ed. 2023	0.2 mg/L
11	Total Nitrogen	mg/L	10.69	APHA, 4500-NO2-B, 24 th Ed., 2023 APHA, 4500-NO3, 24 th Ed., 2023 APHA, 4500-N org B, 24 th Ed. 2023	-----

--End of Report--

Checked By

Sowmya
03/12/2025

Sowmya T M
Assistant Scientist

Authorised By

Sreeja

SREEJA. K.B
Senior Environmental Scientist & Govt. Analyst

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**KERALA STATE POLLUTION CONTROL BOARD
CENTRAL LABORATORY**

**കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്
കേന്ദ്ര പരീക്ഷണശാല**

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TC 8525

TEST REPORT

Analysis Report No.	PCB/CL/1442/2025-26	Date	07.11.2025	Format No.	PCB/CL/CH/F-7
Ref. No.	PCB/EKM/DO-1 Dated 01.11.2025	Date of Collection	31.10.2025		
Received From	District Office, Ernakulam	Date of Receipt	01.11.2025		
No. of Sample	01	Period of Analysis	04.11.2025 –06.11.2025		
Source	Elamkulam CSTP-Out to drain	Scientist-in-charge	P. Geetha		
Sample Condition	Fit for analysis	Sample Type	Waste Water		
Sample collected by	The Environmental Engineer, District Office, Ernakulam	Sample volume & container type	Sterilized DO Bottle		
Sample preservation	As per APHA/IS:3025 (Part-1)	Type of test	MICROBIOLOGY		

Sample ID: Bio -905

Sl. No	Parameters	Unit	Value	Test Method	Detection Limit
1	Faecal Coliform	cfu /100 ml	1240	APHA 9222 D, 24 th Ed. 2023	1cfu/100 ml

Checked by

[Signature]
07/11/25

Anisha M N
Assistant Scientist

--End of Report--

[Signature]
07/11/25

Authorised By

P. GEETHA
Chief Environmental Scientist & Govt. Analyst

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കേന്ദ്ര പരീക്ഷണശാല



TC 8525

TEST REPORT

Analysis Report No.	PCB/CL/1634/2025-26	Date	23.12.2025	Format No.	PCB/CL/CH/F-7
Ref. No.	PCB/EKM/DO-1 Dated 24.11.2025.	Date of Collection	22.11.2025		
Received From	Environmental Engineer	Date of Receipt	24.11.2025		
No. of Sample	01	Period of Analysis	25.11.2025 – 20.12.2025		
Source	GCDA CSTP at Marine Drive.	Scientist-in-charge	Sreeja K.B		
Sample Condition	Fit for analysis	Sample Type	Waste Water Samples		
Sample collected by	The Environmental Engineer, District Office, Ernakulam	Sample volume & container type	Plastic Can		
Sample preservation	As per APHA/IS:3025 (Part-1)	Type of Test	Chemical		

SAMPLE ID: CSTP M

Sl. No	Parameters	Unit	Value	Test Method	Lowest Detection Limit
1	pH	---	7.05	APHA, 4500-H+B, 24 th Ed., 2023	1
2	Total Suspended Solids	mg/L	63.6	APHA, 2540-D, 24 th Ed., 2023	10 mg/L
3	Phosphates	mg/L	4.7	APHA, 4500-P E, 24 th Ed., 2023	0.01mg/L
4	Ammonia as Nitrogen	mg/L	32.34	APHA-4500 NH3-C, 24 th Ed., 2023	0.02 mg/L
5	BOD	mg/L	36	IS 3025 Part(44): 2023	1 mg/L
6	COD	mg/L	92	APHA, 5220-B, 24 th Ed., 2023	4 mg/L
7	Oil & grease	mg/L	BDL	APH, 5520-B, 24 th Ed., 2023	5 mg/L
8	Nitrite as Nitrogen	mg/L	0.021	APHA, 4500-NO2-B, 24 th Ed., 2023	0.02 mg/L
9	Nitrates as Nitrogen	mg/L	0.540	APHA, 4500-NO3, 24 th Ed., 2023	0.01 mg/L

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10	Total Kjeldahl Nitrogen	mg/L	37.632	APHA, 4500-N org B, 24 th Ed. 2023	0.2 mg/L
11	Total Nitrogen	mg/L	38.193	APHA, 4500-N org B, 24 th Ed. 2023, APHA, 4500-NO2-B, 24 th Ed., 2023, APHA, 4500-NO3, 24 th Ed., 2023.	-----

--End of Report--


 Checked By
 Sowmya T M
 Assistant Scientist


 Authorised By
 SREEJA. K.B
 Senior Environmental Scientist & Govt. Analyst

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കേന്ദ്ര പരീക്ഷണശാല**

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TC 8525

TEST REPORT

Analysis Report No.	PCB/CL/1634/2025-26	Date	05.12.2025	Format No.	PCB/CL/CH/F-7
Ref. No.	PCB/EKM/DO-1 Dated 24.11.2025	Date of Collection	22.11.2025		
Received From	District Office, Ernakulam	Date of Receipt	24.11.2025		
No. of Sample	01	Period of Analysis	27.11.2025 – 03.12.2025		
Source	GCDA CSTP at Marine drive - Filter Out	Scientist-in-charge	P. Geetha		
Sample Condition	Fit for analysis	Sample Type	Waste Water		
Sample collected by	The Environmental Engineer, District Office, Ernakulam	Sample volume & container type	Sterilized DO Bottle		
Sample preservation	As per APHA/IS:3025 (Part-1)	Type of test	MICROBIOLOGY		

Sample ID: Bio - 64

Sl. No	Parameters	Unit	Value	Test Method	Detection Limit
1	Faecal Coliform	cfu/100 ml	48×10^3	APHA 9222 D, 24 th Ed. 2023	1cfu/100 ml

Checked by

Anisha M N

Assistant Scientist

--End of Report--

Authorised By

P. GEETHA

Chief Environmental Scientist & Govt. Analyst

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കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

മണ്ണെണ്ണ സ്കൂൾ, മൂത്താമ്പലം, പാറവട്ടം, തൃശ്ശൂർ-680655

KERALA STATE POLLUTION CONTROL BOARD

Majestic Square, 3rd Floor, Paravattani, Ollukkara P.O., Thrissur-680655

ANALYSIS REPORT (WATER/EFFLUENT/SOLID WASTE)		No: TAS 1418 Date: 08.05.2025	
Source	General Hospital, Thrissur		
Date of Sample Collection	23.04.2025	EE, THRISSUR	
Ref. No.	PCB/TSR/IC/180/97 Dated 24.04.2025	Period of analysis	24.04.2025-08.05.2025
Date of Receipt	24.04.2025		
Sample Collected by	AEE		
Methods	Standard methods for the examination of Water and Waste Water, APHA AWWA WEF (24 th Edition 2023)		
Scientist – in –charge of analysis	DHANYA O G		

SI No	Parameter	Unit	Value	Acceptable Limit	Method
			GH(Treated waste water after Ultra Filtration)		
1	pH	---	7.8	5.5-9.0	APHA 4500-H+,B
2	Biochemical Oxygen Demand	mg/l	3.0	30	APHA 5210, B
3	Suspended solids	„	0.1	100	APHA 2540, D
4	Oil&Grease	„	0.92	10	APHA 5520, B

Dhanya
08/05/25
Dhanya O.G.
Assistant Scientist

AEE/TS
Dhanya
08/05/25



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കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

മജെസ്റ്റിക് സ്ക്വയർ, മൂന്നാം നില, പരവട്ടാനി, ഒല്ലൂക്കര പി.ഒ., തൃശ്ശൂർ-680655

KERALA STATE POLLUTION CONTROL BOARD

Majestic Square, 3rd Floor, Paravattani, Ollukkara P.O., Thrissur-680655

ANALYSIS REPORT (WATER/EFFLUENT/SOLID WASTE)		No: TAS 1573 Date:15.01.2026	
Source	General Hospital Thrissur	EE, THRISSUR	
Date of Sample Collection	27.11.2025		
Ref. No.	PCBDTR/502/2025-EE Dated 29.11.2025	Period of analysis	29.11.2025-15.01.2026
Date of Receipt	29.11.2025		
Sample Collected by	NAMP Operator 3 for AE2		
Methods		Standard methods for the examination of Water and Waste Water, APHA AWWA WEF (24 th Edition 2023)	
Scientist – in –charge of analysis		DHANYA O G	

SI No	Parameter	Unit	Value	Tolerance Limit	Method
			DHT (STP Outlet)		
1	pH	---	4.6	6.5-8.5	APHA 4500-H ⁺ ,B
2	Biochemical Oxygen Demand	mg/l	2.4	< 10	APHA 5210, B
3	Chemical Oxygen Demand	„	12	< 50	APHA-5220, B
4	Suspended solids	„	6.1	< 20	APHA 2540, D
5	Total Nitrogen	„	2.8	< 10	APHA 4500 N, APHA 4500 NO ² B, APHA 4500 NO ³ - B
6	Total Phosphorous	„	BDL	< 1.0	APHA 4500-P
7	Oil & Grease	„	0.37	< 10	APHA 5520, B
8	Faecal Coliforms	CFU/100ml	NIL	< 100	APHA 9222 D



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District Office Malappuram, Perinthalmanna Road, Up Hill, Malappuram-676505

ജില്ലാ ഓഫീസ് മലപ്പുറം, പെരിന്തൽമണ്ണ റോഡ്, കുന്नुമ്മൽ, മലപ്പുറം -676505



ANALYSIS REPORT- EFFLUENT		REPORT No: E 63/25		Date: 15.05.2025	
Source	STP of Tirur Municipality Fish Market,Tirur, Malappuram-676101	No.of Samples		1	
		Sample ID		PCB-Y-After Filtration	
		Sample volume,Container type		2.5L,Plastic can	
Date of Sample Collection	02.05.2025	Sample type	Effluent water	Type of test	Chemical
Date of Receipt	03.05.2025	Period of Analysis		03.05.2025 to 15.05.2025	
Samples Collected by	District Office, Malappuram	Scientist in-charge		Assistant Scientist	

Serial No.	Parameter	Unit	Value	Test Method
			PCB-Y	
1	pH	-	5.9	APHA 4500-H+ B
2	Biochemical Oxygen Demand (BOD)	mg/l	4.4	IS 3025 Part 44
3	Chemical Oxygen Demand (COD)	mg/l	16	APHA 5220 B
4	Total Suspended Solid (TSS)	mg/l	58	APHA 2540 D
5	Oil and Grease	mg/l	BDL	APHA 5220 B

Handwritten signature

ASSISTANT SCIENTIST



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KERALA STATE POLLUTION CONTROL BOARD

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ANALYSIS REPORT- EFFLUENT		REPORT No: E 66/25		Date: 23.05.2025	
Source	STP of Tirur Municipality Bus Stand, Tirur, Malappuram-676101	No.of Samples		2	
		Sample ID		PCB-XY-Before Filtration PCB-X- After Filtration	
		Sample volume, Container type		2.5L, Plastic can	
Date of Sample Collection	02.05.2025	Sample type	Effluent water	Type of test	Chemical
Date of Receipt	03.05.2025	Period of Analysis		03.05.2025 to 22.05.2025	
Samples Collected by	District Office, Malappuram	Scientist in-charge		Assistant Scientist	

Serial No.	Parameter	Unit	Value		Test Method
			PCB-XY	PCB-X	
1	pH	-	6.6	6.5	APHA 4500-H+ B
2	Biochemical Oxygen Demand (BOD)	mg/l	260	19	IS 3025 Part 44
3	Chemical Oxygen Demand (COD)	mg/l	880	80	APHA 5220 B
4	Total Suspended Solid (TSS)	mg/l	162	56	APHA 2540 D
5	Oil and Grease	mg/l	BDL	BDL	APHA 5220 B

ASSISTANT SCIENTIST

National Mission for Clean Ganga
Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018
(In compliance to NGT order dated 24.09.2020)

Status of Wastewater Treatment Plants Under AMRUT in Kerala (as on 31.12.2025)

Details of Completed ETPs / STP in the State

No.	City / Town	STP Location	Status	Installed Capacity	Utilization Capacity	Process
1	Thiruvananthapuram	Medical College (AMRUT-1.0)	Completed & operational	5 MLD	3 MLD	MBBR
2	Kochi	Elamkulam (AMRUT-1.0)	Completed & operational	5 MLD	4 MLD	MBBR
3	Kannur	Padannapalam (AMRUT-1.0)	Completed & operational	1 MLD	0.8 MLD	RMBR
4	Alappuzha	General Hospital (AMRUT-1.0)	Completed & operational	0.24 MLD	0.16 MLD	Electro-coagulation
5	Kozhikode	Medical College (AMRUT-1.0)	Completed & operational	2 MLD	1.3 MLD	Electro-coagulation
6	Kozhikode	Medical College (AMRUT-1.0)	Completed & operational	1 MLD	0.5 MLD	Electro-coagulation
7	Thrissur	General Hospital (AMRUT-1.0)	Completed & operational	0.36 MLD	0.2 MLD	MBBR

Details of Under Construction ETPs / STPs / ESTPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I & D or House Sewer Connections / Previous Status (Up to 30.11.2025)	Incremental Progress (Up to 31.12.2025)	Timeline
1	STP at Kureepuzha, Kollam Corporation (AMRUT-1.0)	12	94%	STP (AMRUT-1.0): Physical progress - 93%. Admin building works in progress. Due to the delay in completion of the sewer network (nearly 2 more years required) and commissioning of the STP, the contractor requested to descope the balance works (supply and installation of rotary drum drier and MBBR media at the time of commissioning of the STP, and reduction in the size of the admin building) and to modify the O&M arrangement. The SLTC held on 08/10/25 and the SHPSC held on 27/10/25 approved the descoping of works and the modifications in O&M. In this regard, the Govt. Order dated 10/11/25 has been issued. Sewer Network & Connections (AMRUT-2.0): In order to speed up the commissioning of the Kureepuzha STP, the SLTC held on 08/10/25 and the SHPSC held on 27/10/25 decided to cancel Pallithottam-Thamarakkulam	STP (AMRUT-1.0): Physical progress - 94%. Finishing work of the admin building finishing in progress. Sewer Network & Connections (AMRUT-2.0): <i>Vacuum Sewer Network:</i> The DPR agency engaged by the ULB is preparing the DPR. <i>Iron Bridge Sewer Network:</i> TS to be revised by KWA as per the DSR-2021 and the work is to be tendered.	STP: Expected to be completed by 31.01.2026. Sewer Network: <i>Vacuum Sewer Network - DPR</i> is expected to be submitted by 31.01.2026. <i>Iron Bridge Sewer Network</i> - expected to be tendered by 31.01.2026.

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I & D or House Sewer Connections / Previous Status (Up to 30.11.2025)	Incremental Progress (Up to 31.12.2025)	Timeline
				(conditional assessment work of the existing sewer network was progressing very slowly), Vaddy-Karumalil (AS revision is required for adopting the DSR-2021) and Asramom (AS revision is required for adopting the DSR-2021) sewer network packages, and to implement the sewer network using vacuum sewer technology in Kureepuzha West, Vallikeezhu and adjoining divisions of Kollam Corporation along with the Iron Bridge sewer network package. The DPR of the vacuum sewer network is to be given to KWA by the ULB. The TS of the Iron Bridge sewer network package is to be revised by KWA as per DSR-2021.		
2 & 3	Mobile Septage Treatment Units – 2 nos., Alappuzha Municipality (AMRUT-1.0)	0.02 (0.01x2 nos.)	Physically completed	Both units delivered. The trial run was done by Bhouma on 05.07.2025. As per the test results (dated 28.07.2025) given by the KSPCB it was observed that the faecal coliform content in the effluent taken from both units and the oil & grease content in the effluent of one unit were above the allowable limits. Hence the ULB asked Bhouma to conduct the trial run & testing again. The trial run was done again by Bhouma on 15/11/25. As per the test results received, all parameters were found to be within the allowable limits prescribed by the KSPCB.	The MTUs are to be made operational by the ULB.	MTUs are expected to be made operational by 31.01.2026.
4	Decentralized Sewerage System (STP at Ambedkar Colony), Div-16, Edakochi South, Kochi Corporation (AMRUT-1.0)	1.1	75%	Physical progress-72%. Work is hindered due to rain.	Physical progress-75%. Work in progress.	Expected to be completed by 31.03.2026.
5	STP for RAY Flats, Fort Kochi, Kochi Corporation (AMRUT-2.0)	0.105	60%	Physical progress-58%. Work in progress.	Physical progress-60%. Work in progress.	Expected to be completed by 31.03.2026.
6	FSTP at Yakkara, Palakkad Municipality (AMRUT-1.0)	0.1	Physically completed	FSTP has been physically completed and the inauguration was held on 27/10/25. The electrical connection work is to be completed. Additional works like approach road, installation	Electrical connection work is to be completed. Additional works like approach road, installation of solar panels etc. are in progress. The bylaw	Expected to be made operational by 28.02.2026.

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I & D or House Sewer Connections / Previous Status (Up to 30.11.2025)	Incremental Progress (Up to 31.12.2025)	Timeline
				of OCEMS and installation of solar panels approved by the SHPSC held on 27/10/25 are to be completed.	regarding septage collection is to be placed in the new Council for approval.	
7	FSTP at Chelora, Kannur Corporation (AMRUT-1.0)	0.1	99%	Physical progress-97%. Work in progress.	Physical progress-99%. Electrical connection work to be completed and trial run to be done.	Expected to be completed by 31.01.2026.
8 & 9	Mobile Septage Treatment Units – 2 nos., Kollam Corporation (AMRUT-1.0)	0.02 (0.01x2 nos.)	45%	Approval for procurement was issued via Govt. Order dated 10/11/25 as per the decision taken by the SHPSC held on 27/10/25. One unit delivered. Tender to be floated by the ULB in the GeM portal for the 2 nd unit.	Tender to be floated by the ULB in the GeM portal for the 2 nd unit.	Tender is expected to be floated for the 2nd unit by 15.01.2026.

Details of Proposed ETPs/ STPs/ FSTPs in the State

No.	Location	Capacity of the plant in MLD	Status of Project (up to 30.11.2025)	Incremental Progress (up to 31.12.2025)	Timeline
1	STP at Rajaji Nagar, Thiruvananthapuram Corporation (AMRUT-1.0)	0.5	To be Started: STP: Eco Paradigm executed the agreement on 27/05/25. They informed that they can reduce the BoD to < 20mg/L only whereas as per the KSPCB standards BoD of < 10mg/L has to be achieved. The TS Committee held on 07/08/25 decided to submit a request to the KSPCB for consent regarding the effluent quality proposed by the STP contractor along with test result of water samples from the Amayizhanjanthodu in which the effluent from the STP is proposed to be disposed. The ULB gave the request for consent to the KSPCB on 17/09/25 and the KSPCB informed that the effluent standards as per the prevailing KSPCB orders will have to be followed. Due to this the contractor is reluctant to start the STP works. The ULB held discussions with the KSPCB and Eco Paradigm, but a consensus has not been arrived at regarding the quality of effluent from the proposed STP. Due to this the contractor is reluctant to start the STP works. Way forward is to be decided by the ULB regarding the STP construction. The contractor has requested for price escalation (29%). The ULB is likely to reject the same and retender the work. Way forward is to be decided by the ULB. Temporary Shed: Eight families to be shifted from one of the proposed STP locations for starting the works. Quotations were called for (last date – 25/06/25) by the ULB for construction of temporary sheds, but no offers	To be Started: STP: The contractor's request for price escalation (29%) is likely to be rejected by the ULB and the work is likely to be retendered. The way forward is to be decided by the new Council. Temporary Shed: The work has not been started since the STP construction has not been confirmed. Sewer Network: TS issuance is delayed as the STP construction has not been confirmed.	STP: Expected to be tendered again by 31.01.2026. Sewer Network: Expected to be tendered by 31.01.2026.

No.	Location	Capacity of the plant in MLD	Status of Project (up to 30.11.2025)	Incremental Progress (up to 31.12.2025)	Timeline
			were received. Hence, the estimate was revised and tenders were floated by the ULB, but only 1 bid was received in the 1st tender (opening date – 23/07/25) and no bids were received in the 2nd (opening date – 26/08/25) and the 3rd (opening date – 09/09/25) tenders. In the 4th tender floated by the ULB with 23/09/25 as the opening date, 2 offers were received. The agreement was executed on 09/10/25. Work has not been started since the STP construction has not been confirmed. Sewer Network: The preliminary report was submitted on 23/04/25 by the DPR agency (Urban Grey Water Solutions) and the draft report was submitted on 05/05/25. A joint site inspection was conducted on 17/05/25 by the officials of the ULB, Eco Paradigm & Urban Grey Water Solutions for finalizing the STP locations and 2 locations were finalized. The Urban Grey Water Solutions submitted the modified report based on the finalized locations on 13/06/25 and the estimate on 20/06/25. The ULB submitted the details to the CE, LSGD on 25/07/25 for placing in the TS Committee. The TS committee held on 07/08/25 decided to take a decision on issuance of TS after the confirmation regarding STP construction is obtained. TS issuance is delayed as the STP construction has not been confirmed.		
2	ETP at KSRTC Depot, Thampanoor, Thiruvananthapuram (AMRUT-2.0)	0.02	TS to be issued: The SHPSC held on 07 & 20/02/25 approved the issuance of AS and the G.O dated 22/03/25 was issued. TS to be issued. The KSRTC requested (letter dated 21/04/25) Suchitwa Mission to issue TS. The Suchitwa Mission requested (letter dated 27/05/25) KSRTC to provide the DPR to them for issuing TS. The KSRTC submitted the DPR to Suchitwa Mission on 21/06/25. In the meeting held by the Suchitwa Mission on 31/07/25 the DPR & estimate submitted by the KSRTC was scrutinized and the KSRTC was directed to modify the DPR if required after checking the characteristics of the wastewater. As per the wastewater test results obtained, the KSRTC decided that no change is necessary in the DPR and forwarded the DPR to Suchitwa Mission on 12/09/25. The Suchitwa Mission's TS Committee held on 07/10/25 scrutinized the project and directed KSRTC to get the DPR prepared through an external agency. The KSRTC got the wastewater generated from their Thampanoor Depot tested, and has requested the KSPCB (letter dated 20/11/25) to confirm the necessity of constructing the	TS to be issued: The KSPCB informed the KSRTC that ETP is necessary as the Bus Depot is an orange category industry. An external agency to be engaged by the KSRTC for the preparation of the DPR.	DPR preparation is expected to be completed by 31.03.2026.

No.	Location	Capacity of the plant in MLD	Status of Project (up to 30.11.2025)	Incremental Progress (up to 31.12.2025)	Timeline
			ETP as the parameters are within the KSPCB limits as per the test report.		
3	FSTP at Kureepuzha, Kollam Corporation (AMRUT-2.0)	0.05	To be retendered: The bid received for the FSTP work has a tender excess of 48%. Hence, KWA submitted a request (dated 06/01/25) to the Govt. for approval of tender excess (48%) and the decision is awaited. The bid was withdrawn by the bidder as the bid validity expired on 28/05/25. The proposal submitted by the ULB to transfer the work to AMRUT-2.0 was placed in the SLTC/SHPSC. The SLTC held on 08/10/25 and the SHPSC held on 27/10/25 decided to implement the FSTP under AMRUT-2.0 (transfer from AMRUT-1.0). FSTP to be retendered by KWA.	To be retendered: FSTP is to be retendered by KWA after revising the TS as per the DSR-2021.	Expected to be retendered by 31.01.2026.
4	STP with septage co-treatment at Alissery, Alappuzha Municipality (AMRUT-2.0)	5	TS to be issued: The SHPSC held on 07 & 20/02/25 approved the issuance of AS and G.O dated 22/03/25 was issued. The TS was issued on 04/11/25, and the tender was floated by KWA on 05/11/25 with the opening on 10/12/25.	Tendered: The tender opening date was extended till 19/12/25 but only 1 bid was received. Hence again extended till 31/12/25, 3 bids were received.	Expected to be awarded by 28.02.2026.
5	Decentralized Wastewater Treatment for Bhajanamadom settlement in Kidangamparambu Ward, Alappuzha Municipality (AMRUT-2.0)	0.012	AS to be issued: The MoHUA's approval was received on 01/10/24. The DPR to be submitted by the ULB for placing in the SLTC/ SHPSC for approval of AS. The ULB will engage a DPR preparation agency only after the proposed land for the STP is relinquished by the Bhajanamadom Church. The church authorities are not willing to relinquish the land but they are willing to give NoC to the ULB for implementing the project. The matter is to be resolved. The ULB has informed the Bhajanamadom Church authorities that the project will have to be cancelled if the land for the STP is not relinquished to the ULB. In the meeting held on 16/10/25, the Bhajanamadom Church authorities didn't agree to relinquish the land for the STP. Way forward is to be decided by the ULB. The Division Councilor has given a letter to the ULB's Chairperson for cancelling the work. The matter is to be placed in the new Council for approval for cancellation.	AS to be issued: The decision on cancellation of the work is to be taken by the new Council.	Expected to be cancelled by 31.01.2026.
6	FSTP at Brahmapuram, Kochi Corporation (AMRUT-2.0)	1	To be Started: The ULB engaged the IRTC to execute the work in the DBOT mode. The SHPSC held on 07 & 20/02/25 approved the issuance of AS and G.O dated 22/03/25 was issued. The vetted design was obtained from CUSAT. The details were forwarded to the CE, LSGD on 27/07/25 for placing in the Technical	To be Started: The biomining rejection waste to be removed from the site for completing the survey for the site hand over.	Expected to be started by 31.01.2026.

No.	Location	Capacity of the plant in MLD	Status of Project (up to 30.11.2025)	Incremental Progress (up to 31.12.2025)	Timeline
			Committee for approval of TS. The TS Committee held on 18/08/25 scrutinized the project and later issued the TS. The agreement was executed on 29/10/25 and the site is to be handed over to the contractor.		
7	STP with septage co-treatment at Elamkulam, Kochi Corporation (AMRUT-2.0)	5	Tendered: The 5th SHPSC held on 02/03/23 approved the issuance of AS and G.O dated 25/03/23 was issued. KWA split the work into 5 sub works and issued TS. Later the KWA decided to combine the proposals under AMRUT-2.0 & KMRL. In the meeting held by the Hon'ble Minister of LSGs on 24/07/24 the KWA was directed to go ahead with the proposal under AMRUT-2.0 instead of the combined proposal involving KMRL. STP: TS was issued by KWA for the STP package and tender was floated by KWA for the STP package on 02/12/24 with 01/01/25 as the due date. Three bids received. L1 is 9.26% above. LoA was issued to L1 bidder but they have given a case against the additional performance guarantee demanded by the KWA. As per the interim Court order dated 01/07/25, the agreement is to be executed without the additional performance guarantee. The contractor is waiting for the final decision of the Court and the agreement execution is delayed due to this. As per the final order received from the Court on 23/09/25, the order dated 01/07/25 has to be complied. KWA asked the L1 bidder to execute the agreement by 01/11/25 but so far there is no response from the bidder. Hence, the work is likely to be tendered again by KWA after revising the TS as per DSR-2021. Sewer Network: The TS was issued by KWA on 29/09/25 for the 27.74 km package and TS is to be issued by KWA for the 12.5 km package. The tender was floated by KWA for the 27.74 km package with 25/11/25 as the opening date but it was extended till 18/12/25 for increasing the participation in the tender.	Tendered: STP: There is no response from the bidder regarding agreement execution. Hence, the work is to be tendered again by KWA after revising the TS as per DSR-2021. Sewer Network: The tender opening date of the 27.74 km package was extended till 18/12/25 but only 1 bid was received. Hence again extended till 31/12/25, 4 bids were received. TS is to be issued by KWA for the 12.5 km package.	STP: Expected to be tendered again by 31.01.2026. Sewer Network: The 27.74 km package is expected to be awarded by 28.02.2026 and the 12.5 km package is expected to be tendered by 31.01.2026.
8	FSTP at Ramavarmapuram, Thrissur Corporation (AMRUT-2.0)	0.1	To be retendered: Agreement dated 04/01/24 was executed. The bridge work (for access to the site) was started on 18/06/24. The bridge work was stopped on 04/07/24 due to public protest. FSTP works could not be started due to public protest. The Joint Director, Thrissur, held a meeting with the public at the site on 28/10/24 but the issue could not be solved. In the meeting held by the District Collector on 30/01/25 involving the representatives of all political parties it was decided to shift the project to the land given to IMA in Ramavarmapuram. A meeting	To be retendered: The land for the FSTP is to be confirmed by the ULB. The decision in this regard is to be taken by the new Council.	Expected to be tendered by 28.02.2026.

No.	Location	Capacity of the plant in MLD	Status of Project (up to 30.11.2025)	Incremental Progress (up to 31.12.2025)	Timeline
			involving ministers in the Thrissur District is to be convened to finalize the land. The request given by the ULB (dated 12/09/25) to transfer the project to AMRUT-2.0 was placed in the SLTC/ SHPSC for approval. The SHPSC held on 27/10/25 decided to implement the FSTP under AMRUT-2.0 (transfer from AMRUT-1.0). Land for the FSTP is to be confirmed by the ULB.		
9	Decentralized Sewerage Scheme (STP at Kokkala), Thrissur Corporation (AMRUT-2.0)	5	TS to be issued: Kokkala 2.5 MLD Project: As per the Govt. Order (No. 78/ 2025/ AGRI) dated 08/07/25 the Agriculture Dept. issued clearance for the construction of the STP proposed at Kokkala. Kottappuram 5 MLD Project: Due to public protest, the ULB decided to combine the Kottappuram and Kokkala sewerage projects by constructing a common STP at Kokkala. Combined Project: The request of the ULB to issue AS for the combined Kokkala and Kottappuram sewerage project namely. '5 MLD Decentralized Sewerage Scheme', is to be placed in the SLTC/SHPSC for approval. As directed by the SLTC held on 08/10/25, a basic report on the combined project, '5 MLD Decentralized Sewerage Scheme', was submitted by the ULB. The same was placed in the SHPSC held on 27/10/25 and the committee approved the issuance of AS for the combined project. AS was issued via Govt. Order dated 10/11/25 for the combined project. The ULB has decided to execute the project in the DBOT mode. The draft DBOT tender/ EoI document is to be submitted by the ULB to the CE, LSGD for vetting as per the decision taken by the 11 th SHPSC.	To be tendered: The draft DBOT tender/ EoI document is to be submitted by the ULB to the CE, LSGD for vetting.	Expected to be tendered by 28.02.2026.
10	Augmentation of existing 3 MLD STP at Chakkamkandam to 5 MLD, Guruvayur Municipality (AMRUT-2.0)	2	AS to be issued: The MoHUA's approval was received on 01/10/24. The DPR is to be submitted by KWA for placing in the SLTC/ SHPSC for approval of AS. There is delay in the finalization of the DPR by KWA as the ULB wants to remove the sewer network and cotreatment components from the DPR. In the meeting held by the Principal Secretary, LSGD, on 09/10/25, the ULB's Secretary was directed to take necessary action to take up the works as per the DPR initially submitted (includes sewer network and cotreatment components) by the KWA. The approval of the Council is to be obtained for the DPR.	AS to be issued: The KWA is revising the DPR by including sewer laying using vacuum technology as per the discussion held with the ULB officials and the same will be placed in the Council for approval.	DPR is expected to be finalized by 31.01.2026.
11	STP for Municipal Buildings, Palakkad Municipality (AMRUT-2.0)	0.030	AS to be issued: The MoHUA's approval was received on 01/10/24. The Council held on 17/12/24 gave approval to call for Expression of Interests (EoI) for executing the project in the DBOT	AS to be issued: The DPR is being prepared by the DBOT contractor.	DPR is expected to be submitted by 31.01.2026.

No.	Location	Capacity of the plant in MLD	Status of Project (up to 30.11.2025)	Incremental Progress (up to 31.12.2025)	Timeline
			mode. The EoI was called for by the ULB on 01/03/25 and with 12/03/25 as the due date. Three bids received and are under scrutiny. LoA issued to L1 (Auxira, Kozhikode) on 29/04/25. The agreement is to be executed. The DPR is to be submitted by the contractor to the ULB for placing in the SLTC/ SHPSC for approval of AS. Since the L1 bidder has not executed the agreement, the ULB informed them that if the agreement is not executed within the 1 st week of Jul-2025, the ULB will issue LoA to the L2. A team comprising of ULB, KSPCB, NSS Engg. College, Suchitwa Mission & AMRUT officials inspected the STP constructed by the L2 bidder (Qubits) at Hayath Hospital & Akshaya Hotel in Thrissur on 14/07/25. The report submitted by the team was placed in the ULB's Core Committee held on 23/07/25 and it was decided to take approval of the Council for issuing LoA to the L2. The Special Council held on 02/08/25 approved the issuance of LoA to L2 and the LoA was issued on 21/08/25. Vetted DPR to be submitted by the contractor within 3 months. The DPR preparation is ongoing.		
12	STP with septage co-treatment at Sarovaram (AMRUT-2.0)	27	Tendered: The 7 th SHPSC held on 14/12/23 approved the issuance of AS and G.O dated 08/01/24 was issued. KWA issued combined TS for the STP and the sewer network packages. Tendering was kept on hold by the KWA as it was found in the CRZ mapping done by IRS, Chennai, that a portion of the proposed site for the STP (nearly 20 cents out of 2.6 Acres) falls under the CRZ-1 category. KWA sought clarity from ULB regarding the possibility of getting CRZ clearance as the reduction in the area available will lead to reduction in the STP capacity and reworking of the estimate. In the meeting held by the Hon'ble Mayor on 06/01/25, the KWA was directed to go ahead with the project without reducing the STP capacity under the assumption that the permission will be obtained from the KCZMA as per the prevailing CRZ rules (as per the latest rules, public utilities are allowed in CRZ-1). KWA tendered the work with 14/02/25 as the opening date. The due date was extended up to 25/02/25 and again up to 06/03/25 as per the request of the prospective bidders. Two bids received but both did not qualify. KWA retendered the work on 03/04/25 with 02/05/25 as the tender opening date. Six bids received and the prequalification process is in progress in	Tendered: A confirmation is required from the ULB regarding the management of the additional fund required due to tender excess for execution of the agreement between KWA and the bidder (no stay from the court regarding agreement execution). This matter is to be placed in the new Council for taking a decision.	Expected to be awarded by 31.01.2026.

No.	Location	Capacity of the plant in MLD	Status of Project (up to 30.11.2025)	Incremental Progress (up to 31.12.2025)	Timeline
			KWA. Tender scrutiny has been completed by KWA and 5 bid were disqualified. The financial bid that was opened is 19.4% above and was negotiated to 11.8% above (less than 10% as per the DSR-2021). Work can be awarded only as per the final judgement of the Hon. High Court in the case (WPC No. 30042/2025) filed by one of the disqualified bidders. Since funds are not available with the ULB or under AMRUT-2.0 to meet the tender excess amount, the ULB's Council held on 16/09/25 decided to execute the project in the DBOT mode. The ULB's proposal to execute the project in DBOT mode on their own instead of KWA was placed in the SLTC/SHPSC. The SLTC held on 08/10/25 and the SHPSC held on 27/10/25 decided that the proposal can't be considered as there is a live tender and there is a court case related to the tender. The committee directed KWA to take a decision regarding the tender and the ULB's Secretary to check the possibility of using any other funds available to the ULB for meeting the tender excess. The matter is to be placed in the new Council.		
13	Sewerage System for Zone-A (STP at West Hill Industrial Estate), Kozhikode Corporation (AMRUT-2.0)	15	To be started: Due to public protest and the ongoing court cases (there is a stay by the Munsiff Court regarding the Avikkalthodu STP work) the ULB decided to combine the Kothi & Avikkalthodu sewerage projects with a common STP at the West Hill Industrial Estate. The MoHUA's approval was received on 01/10/24. An EoI for executing the work in DBOT mode was floated by the ULB on 30/10/24 with 20/11/24 as the last date of bid submission. The due date of EoI was extended till 10/12/24 as per the request of the prospective bidders. Two offers received. The Council held on 21/12/24 approved the formation of a technical committee for scrutiny of bids. The SIDCO objected the construction of the STP in the West Hill Industrial Estate. In this regard, the ULB submitted a request to the Govt. (letter dated 20/12/24) for permission to construct the STP at the location and the decision is awaited. Although the SIDCO objected the construction of the STP in the West Hill Industrial Estate, the ULB is going ahead with the project and has issued LoA on 18/02/25 to KCCL & AIPPL - JV. The agreement was executed on 21/05/25. The DPR submitted by the contractor was placed in the SLTC/ SHPSC for approval of AS. The SLTC held on 08/10/25 and the SHPSC held on 27/10/25	To be started: STP: ULB has submitted the application to KCZMA on 16/12/25 for the CRZ clearance. The Kerala SIDCO Ltd. has objected the construction of the STP in the West Hill Industrial Estate. The work can be started after obtaining the CRZ clearance and after the resolution of the issue with SIDCO. Sewer Network: The agreement with Nasit Infrastructure Pvt. Ltd is to be renewed by the ULB. The revised design is to be submitted by the contractor.	STP: Expected to be started by 28.02.2026. Sewer Network: Expected to be started by 28.02.2026.

No.	Location	Capacity of the plant in MLD	Status of Project (up to 30.11.2025)	Incremental Progress (up to 31.12.2025)	Timeline
			accorded sanction for the issuance of AS (STP & Sewer Network). STP: Technical approval and KCZMA's consent are to be obtained for starting the work. The project details are to be submitted by the ULB to the CE, LSGD for placement in the Technical Committee for technical approval. Consent to Establish dated 28/11/25 has been issued by the KSPCB and the application for KCZMA's consent is to be submitted by the ULB. Sewer Network: The agreement with Nasit Infrastructure Pvt. Ltd is to be renewed by the ULB. The contractor has completed the survey works and the revised design is to be submitted.		
14	STP with septage co-treatment at Marakkarkandy (Maithanapalli), Kannur Corporation (AMRUT-2.0)	5	To be retendered: The SHPSC held on 07 & 20/02/25 approved the issuance of AS and G.O dated 22/03/25 was issued. The Council held on 28/04/25 decided that the project will be implemented by the ULB in the DBOT mode instead of KWA. The ULB called for EoI on 31/07/25 for executing the project in DBOT mode with 31/08/25 as the date of opening. Two bids were received and the LoA was issued to KCCL & AIPPL - JV. The request of the ULB to execute the project in the DBOT mode on their own instead of KWA was placed in the SLTC/ SHPSC for approval. As directed by the SLTC held on 08/10/25, the CE, LSGD submitted a report regarding the tender process followed by the ULB. The same was placed in the SHPSC held on 27/10/25 and the committee decided that the ULB shall execute the project through KWA since the tender process followed by the ULB for executing the project in the DBOT mode is flawed and hence the tender shall be cancelled. Action in this regard is to be taken by the ULB.	To be retendered: The decision on handing over the work back to KWA and on retendering are to be taken by the new Council.	Expected to be tendered again by 28.02.2026.

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TTU	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - Oct 2025	Incremental progress - Nov 2025	Incremental progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
5	STP with Septage Cotreatment Capability at Alissery, Alappuzha Municipality (AMRUT-2.0)	Kerala Water Authority	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail.com	5	Tendered	TS estimate submitted after correction and is under scrutiny in KWA.	TS was issued on 04.11.2025, and the tender was floated by KWA on 05.11.2025 with the opening on 10.12.2025.	The tender opening date was extended till 19/12/25 but only 1 bid was received. Hence again extended till 31/12/25, 3 bids were received.	Expected to be awarded by 28.02.2026.
6	STP at Bhajanamadam Colony, Alappuzha Municipality (AMRUT-2.0)	Alappuzha Municipality	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail.com	0.012	DPR Stage	In the meeting held on 16.10.2025, the Bhajanamadam Church authorities didn't agree to relinquish the land for the STP. Way forward is to be decided by the ULB.	The Division Councilor has given a letter to the ULB's Chairperson for cancelling the work. The matter is to be placed in the new Council for approval for cancellation.	The decision on cancellation of the work is to be taken by the new Council.	Expected to be cancelled by 31.01.2026.
KOTTAYAM DISTRICT									
7	Taluk Hospital Pampady, Pampady Block panchayat, Kottayam			0.085					-
IDUKKI DISTRICT									
8	STP for Idukki district hospital and district Ayurveda hospital, Thodupuzha municipality, Idukki	Suchitwa mission		0.205					
9	STP at private bus station, Kothayikkunnu, Thodupuzha municipality Idukki	Suchitwa mission		0.03					
ERNAKULAM DISTRICT									
10	4 STPs are coming up under the KMRL's Integrated Water transport System project at Elamkulam(17.5 MLD)revised to 55MLD, Vennala(24MLD) clubbed with Elamkulam	KWA		55+50MLD	DPR Stage	AS not yet received.			
	Muttar(16.5 MLD) revised to 50MLD								
	Perandur(19 MLD) clubbed with Muttar								

TTU	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - Oct 2025	Incremental progress - Nov 2025	Incremental progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
11	STP with Septage Cotreatment Capability at Elamkulam, Kochi Corporation (AMRUT-2.0)	Kerala Water Authority	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uic1smmukerala@gmail.com	5	Tendered	STP: As per the Court order dated 01.07.2025, the agreement is to be executed without the additional performance guarantee. As per the final order received from the Court on 23.09.2025, the order dated 01.07.2025 has to be complied. KWA asked the L1 bidder to execute the agreement by 01.11.2025, but so far no action has been taken by them. Sewer Network: The TS was issued by KWA on 29/09/25. The tender was floated by KWA for one sewer network package (27.74 km) with 25/11/25 as the opening date. TS is to be issued by KWA for the other sewer network package (12.5 km).	STP: There is no response from the bidder regarding agreement execution. Hence, the work is likely to be tendered again by KWA after revising the TS as per DSR-2021. Sewer Network: The tender opening date has been extended till 18.12.2025 for increasing the participation in the tender. TS is to be issued by KWA for the 12.5 km package.	STP: There is no response from the bidder regarding agreement execution. Hence, the work is to be tendered again by KWA after revising the TS as per DSR-2021. Sewer Network: The tender opening date of the 27.74 km package was extended till 18/12/25 but only 1 bid was received. Hence again extended till 31/12/25, 4 bids were received. TS is to be issued by KWA for the 12.5 km package.	STP: Expected to be tendered again by 31.01.2026. Sewer Network: The 27.74 km package is expected to be awarded by 28.02.2026 and the 12.5 km package is expected to be tendered by 31.01.2026.
12	Chittur Thathamangalam FSTP	IMPACT Kerala Ltd.							
13	CHC Kadayiruppu, Vadavucode Block Panchayat, Emakulam	Suchitwa mission		0.025					
THRISSUR DISTRICT									
14	5 MLD Decentralized Sewerage Scheme (STP at Kokkala), Thrissur Corporation (AMRUT-2.0)	Thrissur Corporation	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uic1smmukerala@gmail.com	5	AS Issued	Due to public protest and due to the difficulty in obtaining clearance from KSPCB, the ULB decided to combine the Kottappuram and Kokkala sewerage projects by constructing a common STP at Kokkala. As directed by the SLTC held on 08.10.2025, a basic report on the combined project, '5 MLD Decentralized Sewerage Scheme', was submitted by the ULB. The same was placed in the SHPSC held on 27.10.2025 and the committee approved the issuance of AS for the combined project.	AS was issued via Govt. Order (No.2787) dated 10.11.2025 for the combined project. The ULB has decided to execute the project in the DBOT mode. The draft DBOT tender/EoI document is to be submitted by the ULB to the CE, LSGD for vetting as per the decision taken by the 11th SHPSC.	The draft DBOT tender/ EoI document is to be submitted by the ULB to the CE, LSGD for vetting.	Expected to be tendered by 28.02.2026.
15	STP at Athani, Wadakkanchery Municipality, Thrissur (PRS)			350 KLD STP					

TTU	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - Oct 2025	Incremental progress - Nov 2025	Incremental progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
16	STP at Wadakkanchery Municipality, Thrissur (IMPACT KERALA Ltd) (PRS)	IKL			DPR Stage				-
17	Pazhayanoor STP (Thrissur)	KWA		0.45 KLD	Work Awarded	Work Handover to KWA			
18	General Hospital, Irinjalakuda Municipality, Thrissur (PRS)	Suchitwa mission		0.150					
19	35 KLD STP at Ramavarma District ayurveda hospital, Thrissur	Suchitwa mission		0.035		Return for modification			
20	STP at Ottuppara Market, Wadakkanchery Municipality, Trissur (IMPACT KERALA Ltd) (PRS)	IKL		18 KLD STP	DPR Approved				-
21	STP at Athani market, Wadakkanchery Municipality, Trissur (PRS) (IMPACT KERALA Ltd)	IKL		13.9 KLD STP	DPR Approved				-
22	Waste water treatment plant at K R Narayanan memorial hall, Adat GP			0.0065					
23	Augmentation of existing 3 MLD STP at Chakkamkandam to 5 MLD with Septage Cotreatment Capability, Guruvayur Municipality (AMRUT-2.0)	Kerala Water Authority	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail.com	2	DPR Stage	There is delay in the finalization of the DPR by KWA as the ULB wants to remove the sewer network and cotreatment components from the DPR. In the meeting held by the Principal Secretary, LSGD on 09.10.2025, the ULB's Secretary was directed to take necessary action to take up the works as per the DPR initially submitted by the KWA. Action in this regard is to be taken.	The approval of the new Council is to be taken for the DPR submitted initially by the KWA.	The KWA is revising the DPR by including sewer laying using vacuum technology as per the discussion held with the ULB officials and the same will be placed in the Council for approval.	DPR is expected to be finalized by 31.01.2026.
PALAKKAD DISTRICT									
24	STP for Municipal Buildings, Palakkad Municipality (AMRUT-2.0)	Palakkad Municipality	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail.com	0.030	DPR Stage	The DPR is being prepared by the DBOT contractor.	The DPR is being prepared by the DBOT contractor.	The DPR is being prepared by the DBOT contractor.	DPR is expected to be submitted by 31.01.2026.
25	CHC Alathur, Alathur Block Panchayat , Palakkad	Suchitwa mission		0.090		Instructed LB to call Tender for DPR preparation			
MALAPPURAM DISTRICT									
26	Sewage Treatment Plant and Sewerage System for Ponnani Municipality (Harbour Zone)	KWA		7.12	DPR Approved				Resolution not obtained

TTU	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - Oct 2025	Incremental progress - Nov 2025	Incremental progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
27	Sewerage system for Ponnani municipality(Kottat hara Zone) with STP of capacity 4.2 MLD	KWA		4.2	DPR Approved				LGSD has put up proposal for a convention centre at the land earmarked for STP. Hence, resolution not obtained
28	Eco - friendly waste water Treatment Plant (140 KLD) for Women and Children Hospital Ponnani Municipality, Malappuram	Suchitwa mission		0.14					Tender publishing next week with due date 10.09.25
KOZHIKODE DISTRICT									
29	STP with Septage Cotreatment Capability at Sarovaram, Kozhikode Corporation (AMRUT-2.0)	Kerala Water Authority	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uic1smmukerala@gmail.com	27	Tendered	The ULB's proposal to execute the project on their own instead of KWA was placed in the SLTC/SHPS. The SLTC held on 08.10.2025 and the SHPSC held on 27.10.2025 decided that the proposal can't be considered as there is a live tender and there is a court case related to the tender. The committee directed KWA to take a decision regarding the tender and the ULB's Secretary to check the possibility of using any other funds available to the ULB for meeting the tender excess.	A confirmation is required from the ULB regarding the management of the additional fund required due to tender excess for execution of the agreement between KWA and the bidder (no stay from the court regarding agreement execution). This matter is to be placed in the new Council for taking a decision.	A confirmation is required from the ULB regarding the management of the additional fund required due to tender excess for execution of the agreement between KWA and the bidder (no stay from the court regarding agreement execution). This matter is to be placed in the new Council for taking a decision.	Expected to be awarded by 31.01.2026.

TTU	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - Oct 2025	Incremental progress - Nov 2025	Incremental progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
30	Sewerage System for Zone-A (STP at West Hill Industrial Estate), Kozhikode Corporation (AMRUT-2.0)	Kozhikode Corporation	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uic1smmukerala@gmail.com	15	Work Awarded	The SLTC held on 08.10.2025 and the SHPSC held on 27.10.2025 accorded sanction for the issuance of AS.	STP: The AS was issued via Govt. Order (No.2787) dated 10.11.2025. Technical approval and KCZMA's consent are to be obtained for starting the work. The project details are to be submitted by the ULB to the CE, LSGD for placement in the Technical Committee for technical approval. Consent to Establish dated 28.11.2025 has been issued by the KSPCB and the application for KCZMA's consent is to be submitted by the ULB. Network: Agreement with Nasit Infrastructure Pvt. Ltd is to be renewed by the ULB after the MCC expires. The contractor has completed the survey works and the revised design is expected to be submitted by Dec-2025.	STP: ULB has submitted the application to KCZMA on 16/12/25 for the CRZ clearance. The Kerala SIDCO Ltd. has objected the construction of the STP in the West Hill Industrial Estate. The work can be started after obtaining the CRZ clearance and after the resolution of the issue with SIDCO. Sewer Network: The agreement with Nasit Infrastructure Pvt. Ltd is to be renewed by the ULB. The revised design is to be submitted by the contractor.	STP: Expected to be started by 28.02.2026. Sewer Network: Expected to be started by 28.02.2026.
31	Construction of 7ML D capacity Sewage Treatment Plant and Laying Sewerage Network to Vatakara Municipality, Kozhikode	KWA		7 MLD	DPR Approved				
32	Kozhikkode corporation Zone F	KWA		4 MLD	DPR Approved				
33	STP at Vadakara Municipality, Kozhikkode (IMPACT KERALA Ltd) (PRS)	IMPACT Kerala Ltd.		0.5 MLD Sewage TP 20KLD FSTP 20KLD		Under DPR preparation			-
34	30 KLD Sewage Treatment Plant at EMS Memorial Municipal Town Hall, Koyilandy Municipality, Kozhikkode	KWA		0.03	Tendering Stage				10.10.2025

KANNUR

TTU	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - Oct 2025	Incremental progress - Nov 2025	Incremental progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
35	STP with Septage Cotreatment Capability at Maithanappally, Kannur Corporation (AMRUT-2.0)	Kerala Water Authority	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail.com	5	Tendered	The request submitted by the ULB to execute the project on their own instead of KWA was placed in the SLTC/SHPSC. As directed by the SLTC held on 08.10.2025, the CE, LSGD submitted a report regarding the tender process followed by the ULB. The same was placed in the SHPSC held on 27.10.2025 and the committee decided that the ULB shall execute the project through KWA since the tender process followed by the ULB for executing the project in the DBOT mode is flawed and hence the tender shall be cancelled.	The decision on handing over the work back to KWA and on retendering are to be taken by the new Council.	The decision on handing over the work back to KWA and on retendering are to be taken by the new Council.	Expected to be tendered again by 28.02.2026.
36	STP at Palayad, Taliparamba municipality, Kannur	Suchitwa mission		1					
37	STP at hospital, Pazhayangadi, Kannur	KWA		0.120	TS issued				
38	STP at old age home, Kannur			0.010		Work completed			
39	DPR for perumba fish market Payyanur Municipality, Kannur	KWA		0.005	Tendering Stage				
40	Thalassery, Kannur			22					
41	Kannur corporation Zone 1			13					
42	Payyannur, Kannur			13 MLD					
43	150 KLD Sewage Treatment Plant - Mattannur Municipality – Reg			0.2		TS issued 06-11-2025			
WAYANAD DISTRICT									
49	65 KLD Sewage Treatment Plant at Taluk Head Quarters Hospital Vythiri, Kalpetta Block Panchayat, Wayanad	Suchitwa mission		0.065		DPR under scrutiny, needs to revised with higher capacity			
KASARGOD DISTRICT									
50	Kasargod Zone 1			4 MLD					
51	Kasargod Zone 2			4 MLD					
52	Taluk Hospital , Neeleswaram Municipality Kasaragod	Suchitwa mission		0.040					
53	135 KLD Capacity decentralized sullage Treatment plant at Uppala Town Mangalpadi, Kasaragod	Suchitwa mission		0.135					
54	CHC, Mangalpady, Manjeshwar Block Panchayath, Kasragod	Suchitwa mission		0.014					

TTU	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the ETP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - Oct 2025	Incremental progress - Nov 2025	Incremental progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
THIRUVANANTHAPURAM									
1	ETP at KSRTC Depot, Thampanoor, Thiruvananthapuram (AMRUT-2.0)	KSRTC	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail.com	0.02	AS issued	The Suchitwa Mission's TS Committee held on 07.10.2025 scrutinized the project and directed KSRTC to get the DPR prepared through an external agency. Action in this regard to be taken by the KSRTC.	The KSRTC tested the wastewater generated from the Thampanoor Depot and has requested the KSPCB (letter dated 20.11.2025) to confirm the necessity of constructing the ETP as the parameters are within the KSPCB limits as per the test report. The reply of the KSPCB is awaited.	The KSPCB informed the KSRTC that ETP is necessary as the Bus Depot is an orange category industry. An external agency to be engaged by the KSRTC for the preparation of the DPR.	DPR preparation is expected to be completed by 31.03.2026
KOTTAYAM									
2	ETP at Kodimatha, Kottayam Municipality			0.030		slaughter house not operational, ETP construction works resume after the slaughter house starts funtioning			
3	11 KLD effluent treatment plant at Kuravilangad Fish market, Kuravilangad Grama Panchayat, Kottayam			0.011		Project dropped			
THRISSUR									
4	ETP of 2 KLD at Konnamkulam Milk Production Cooperative Society			0.002					
MALAPPURAM									
5	ETP at District Hospital Perunthalmanna, District Panchayath, Malappuram	Suchitwa mission		0.200					
6	ETP at Tirur Municipality Slaughter house	Suchitwa mission		0.030			Paused due to public protest, Slaughter house not wroking		

TTU	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the ETP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - Oct 2025	Incremental progress - Nov 2025	Incremental progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
KOZHICODE									
7	ETP at GovtAyurvedic Hospital, Talayad, Panangad Grama Panchayath, Kozhikode	Suchitwa mission		0.03					

TT U	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the FSTP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - Oct 2025	Incremental progress - Nov 2025	Incremental progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
KOLLAM									
1	FSTP at Kureepuzha, Kollam (AMRUT-2.0)	Kerala Water Authority	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uielmmukerala@gmail. com	0.05	Tendering Stage	The bidder has withdrawn the bid submitted as the bid validity period has ended. The KWA has revised the estimate as per DSR-2021. The SLTC held on 08.10.2025 and the SHPSC held on 27.10.2025 decided to implement the FSTP under AMRUT-2.0 (transfer from AMRUT-1.0). FSTP to be retendered by KWA.	FSTP is to be retendered by KWA after revising the TS as per the DSR-2021.	FSTP is to be retendered by KWA after revising the TS as per the DSR-2021.	Expected to be tendered by 31.01.2026.
KOTTAYAM									
2	FSTP at Vellor GP				DPR Stage	land allotted from industries department, suitable land identified ,procedure for land acquisition and lease is being processed			
3	50KLD FSTP at Mangalam				DPR Stage	A new land was identified as the earlier land was not available , A govt meeting to be held for the availability of land.			
ERNAKULAM									
4	Muvattupuzha Municipality's 50KLD FSTP Project	IMPACT Kerala Ltd.							
5	North Paravur FSTP	IMPACT Kerala Ltd.				Bio mining completed, Soil test conducting by the agency			
6	FSTP at Brahmapuram, Kochi Corporation (AMRUT-2.0)	Kochi Corporation	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uielmmukerala@gmail. com	1	Work Awarded	Agreement was executed on 29.10.2025 and the site to be handed over to the contractor.	The work is expected to be started after the election.	The biominning rejection waste to be removed from the site for completing the survey for the site hand over.	Expected to be started by 31.01.2026.
THRISSUR									

TT U	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the FSTP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - Oct 2025	Incremental progress - Nov 2025	Incremental progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
7	FSTP at Ramavarmapuram, Thrissur Corporation (AMRUT-1.0)	Thrissur Corporation	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail. com	0.1	Tendering Stage	The SHPSC held on 27.10.2025 decided to transfer the project to AMRUT-2.0. Land for the FSTP to be confirmed by the ULB.	The land for the FSTP is to be confirmed by the ULB. The matter is to be placed in the new Council for taking a decision.	The land for the FSTP is to be confirmed by the ULB. The matter is to be placed in the new Council for taking a decision.	Expected to be tendered by 28.02.2026.
PALAKKAD									
8	Shornur FSTP	IMPACT Kerala Ltd.				Cluster selection ongoing, by considering the nearby local bodies.			
MALAPPURAM									
9	FSTP at Perinthalmanna					Land demarcating is being done by taluk surveyor			
10	FSTP at Valancheri					Site Clearance done. Applied for KSEB Electricity connection.			
KANNUR									
11	FSTP at Valliyayi, Mokeri GP	Suchitwa mission				TS issued on 17-10-2025			
KASARGODE									
12	FSTP at Mangalpady, 50 KLD			0.050		TS issued			
13	FSTP at Manjeswaram, Manjeswaram GP	Suchitwa mission			TS issued	Work to be awarded			

	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the plant in MLD	Status of I & D or House sewer connections	Incremental Progress - Oct 2025	Incremental Progress - Nov 2025	Incremental Progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
	THIRUVANANTHAPURAM								
1	ETP 10 KLD Capacity, Nedumangad Municipality, Thiruvananthapuram	Suchitwa mission		0.01					
2	FSTP at Varkala Municipality, Thiruvananthapuram (IMPACT KERALA Ltd)	IMPACT Kerala Ltd.		50 KLD FSTP	Agreement executed with the contractor M/s Enrec Engineers on 29.02.2024 Contractor submitted vetted process designs Submitted to KWA and got approval	Structural framework and chamber construction are ongoing			Work expected to be completed by October 2025

	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the plant in MLD	Status of I & D or House sewer connections	Incremental Progress - Oct 2025	Incremental Progress - Nov 2025	Incremental Progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
KOLLAM									
3	STP at Kureepuzha, Kollam (AMRUT-1.0)	Kerala Water Authority	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail.com	12		STP (AMRUT-1.0): Physical progress - 93%. Admin building works in progress. Due to the delay in completion of the sewer network (nearly 2 more years required) and commissioning of the STP, the contractor requested to descope the balance works (supply and installation of rotary drum drier and MBBR media at the time of commissioning of the STP, and reduction in the size of the admin building) and to modify the O&M arrangement. The SLTC held on 08/10/25 and the SHPSC held on 27/10/25 approved the descoping of works and the modifications in O&M. Sewer Network (AMRUT-2.0): In order to speed up the commissioning of the Kureepuzha STP, the SLTC held on 08/10/25 and the SHPSC held on 27/10/25 decided to cancel Pallithottam-Thamarakkulam (conditional assessment work of the existing sewer network was progressing very slowly), Vaddy-Karumalil (AS revision is required for adopting the DSR-2021) and Asramom (AS revision is required for adopting the DSR-2021) sewer network packages, and to implement the sewer network using vacuum sewer technology in Kureepuzha West, Vallikeezhu and adjoining divisions of Kollam Corporation along with the Iron Bridge sewer network package. The DPR of the vacuum sewer network is to be given to KWA by the ULB. The TS of the Iron Bridge sewer network package is to be revised by KWA as per DSR-2021.	STP (AMRUT-1.0): Physical progress - 93%. Admin building finishing works in progress. Sewer Network (AMRUT-2.0): <i>Vacuum Sewer Network:</i> DPR of the vacuum sewer network is to be given to KWA by the ULB. The DPR agency engaged by the ULB is preparing the DPR. <i>Iron Bridge Sewer Network:</i> TS to be revised by KWA as per the DSR-2021 and the work is to be tendered.	STP (AMRUT-1.0): Physical progress - 94%. Finishing work of the admin building finishing in progress. Sewer Network & Connections (AMRUT-2.0): <i>Vacuum Sewer Network:</i> The DPR agency engaged by the ULB is preparing the DPR. <i>Iron Bridge Sewer Network:</i> TS to be revised by KWA as per the DSR-2021 and the work is to be tendered.	STP: Expected to be completed by 31.01.2026. Sewer Network: Vacuum Sewer Network - DPR is expected to be submitted by 31.01.2026. Iron Bridge Sewer Network - expected to be tendered by 31.01.2026.

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	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the plant in MLD	Status of I & D or House sewer connections	Incremental Progress - Oct 2025	Incremental Progress - Nov 2025	Incremental Progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
8	FSTP at Munnar, Idukki			50 KLD	Due to a court case, work stopped temporarily District Collector Idukki has submitted report to Government for re-assigning the land to Munnar GP.	paused due to court case			Under jurisdiction
KOCHI									
9	STP at Ambedkar Colony, Div-16, Edakochi South (AMRUT-1.0)	Kochi Corporation	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail.com	1.1		Physical progress - 70%. Work in progress.	Physical progress - 72%. Work in progress.	Physical progress - 75%. Work in progress.	Expected to be completed by 31.03.2026.
10	STP at RAY Flats, Fort Kochi, Kochi Corporation (AMRUT-2.0)	Kochi Corporation	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail.com	0.105		Physical progress - 35%. Work in progress.	Physical progress - 58%. Work in progress.	Physical progress - 60%. Work in progress.	Expected to be completed by 31.03.2026.
THRISSUR									
11	Viyoor central jail STP (Thrissur)			0.05	Work started on 23/04/2023				20.04.2025
12	Kunnumkulam, Thrissur			0.01	Completion stage and ready for commissioning				
13	STP at CHC Cherpu BP, Thrissur			0.01	Plant construction completed. Final bill is to be submitted by LB. Detailed estimate is under preparation.				30.08.2024
14	STP at Community Health Centre Pazhayannoor Block Panchayath ,Thirssur:			0.025	Work awarded and started				30.08.2025
PALAKKAD									
15	STP at Ottappalam Municipality, Palakkad District (IMPACT KERALA Ltd)	IMPACT Kerala Ltd.		1.50ML D Co- treatment	☐ Beneficiary details to be finalised by Municipality after MCC.	Network design finalised by considering the taluk hospital area instead of the railway land. Around 50% plant work completed.			Work expected to be completed by 15-12-2025

	Location	Implementing Agency	Name, Designation, Phone No., Mail id of Nodal Officer updating the data	Capacity of the plant in MLD	Status of I & D or House sewer connections	Incremental Progress - Oct 2025	Incremental Progress - Nov 2025	Incremental Progress - Dec 2025	Likely Date of Completion of DPR Preparation/ Tendering
16	FSTP at Yakkara, Palakkad Municipality (AMRUT-1.0)	Palakkad Municipality	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail.com	0.1	Agreement to be executed.	FSTP has been physically completed and the inauguration was held on 27.10.2025. Additional works like approach road, installation of OCEMS and installation of solar panels approved by the SHPSC held on 27.10.2025 are to be done.	Electrical connection for the FSTP is to be given by the KSEB. Additional works like approach road, installation of solar panels etc. are in progress. Bylaw regarding septage collection is to be placed in the new Council for approval.	Electrical connection work is to be completed. Additional works like approach road, installation of solar panels etc. are in progress. The bylaw regarding septage collection is to be placed in the new Council for approval.	Expected to be made operational by 28.02.2026.
MALAPPURAM									
17	STP at Pambad Housing Colony Malappuram Municipality, Malappuram			0.11		Mechanical work pending due to electrical connection problem. ULB requested to KSEB.			30.09.2025
18	DPR on STP at District Hospital, Tirur, Malappuram	Suchitwa mission		0.5		Work Ongoing- Structure work completed			30.12.2025
19	Eco Friendly waste water Treatment plant 10 KLD in vettam Community Health centre , Tirur BP	Suchitwa mission		0.01		Work Ongoing (95 % Completed)			30.12.2025
KOZHIKODE									
20	Wastewater treatment plant at Kuttiyadi government taluk hospital, Kozhikode			0.080	RE has been prepared. Electric works will be started after passing RE.				30.08.2024
KANNUR									
21	Sewage Treatment Plant 20 KLD at Shopping Complex cum multiplex Theatre, Kallumutti, IruttiPayam, Grama Panchayath1, Kannur			0.02	☐ Amount transferred to KWA on 26.02.2024. ☐ Tendering process will start soon.				31/03/2026
22	STP for Convention Centre, Pinarayi Grama Panchayath, Kannur			0.02					30/12/2024
23	FSTP at Chelora, Kannur Corporation (AMRUT-1.0)	Kannur Corporation	Ramu Vinayak S, UIWE-1, SMMU, AMRUT Kerala 9980010548 smmukerala@gmail.com uie1smmukerala@gmail.com	0.1	NA	Physical progress - 96%. Work in progress.	Physical progress - 97%. Work in progress.	Physical progress-99%. Electrical connection work to be completed and trial run to be done.	Expected to be completed by 31.01.2026.
WAYANAD									
24	Construction of 45 KLD waste water treatment plant at Kalpetta Government Ayurveda Hospital DP , Wayanad			0.045	☐ District panchayat Wayanad terminated existing agency ☐ M/S Ram biological confirmed implementation of projects.				30/02/2025