

		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	-	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, Kannammoola, 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 dropped (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

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	Tendering/ To be arranged (1No.) Land acquisition -1 In progress-3						Land aquisition completed	<p>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</p> <p>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.</p> <p>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.</p> <p>Delay occurred due to pubic protest for changing the alignment. Work will be completed within 30 days 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. Trial pit done.</p> <p>Delay occurred due to pubic protest for changing the alignment. Work can be completed within 30 days.</p>
2.1.11	Procurement of sewercleaning machines and equipment maintenance	Kerala Water Authority	Mar2020			completed	100	work completed
Solid Waste Management ActionPlan								

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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
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				New project, Approved by DPC Project no - 1835/26

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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	<p>Aero bins at various places(28)</p> <p>Proposed sites</p> <ol style="list-style-type: none"> 1. Moonnathumukku – Purampoku 2. Poonthura – HI Office 3. Cherianmuttam – Poonthura 4. Beemapally Compound 5. TsunamiColony 6. Mother Theresa Colony 7. KumariChantha 8. PoonthuraMarket 9. Moonnattumukku bridge 10. Ambalathara – Nilama 11. Fishermen Flat – Muttathara 12. Perunalli Market road 13. Poundkadavu old market 14. Market behind Attipra zonaloffice 15. Tsunami Colony near 110KV tower (Poundkadavu) 16. Near ValiyavilaVeli St. Thomas Church (Poundkadavu) 17. Near Kamaleshwaram HSS 18. Valiyaveetil Residence association 19. Near ArannoorGovt Quarters 20. Kunjalumoodu Junction 21. KumarapuramTha marabthagam (near comfortstation) 22. NaerKannammoola Bridge 23. Mannanthala Market 24. Santhi Nagar Residents association 25. AlantharaKattayil 26. UlloorMarket 27. Museum RKVRoad 28. New Nalantha Road 	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

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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.

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2.2.7			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 handedover 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	Biodegradable waste	Thiruvananthapuram Corporation	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

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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

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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 access 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				AS not received	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
3.1.2	Extension of sewerage system to Block H to R	Kerala Water Authority	700				”	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 do the Preparation of DPRs internally, action taken
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				”	

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3.1.7	Additional STP requirement	Kerala Water Authority	60				..	<p>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 requirement 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 these two works and work tendered. As the two bidders who quoted for the Tender of Cluster 1 (ZONE-III Kalady Part) & (ZONE-IV Attukal Part) was disqualified, the work retendered. Work order issued and work started. In case of Cluster zone I&V also the two bidders who quoted the tender were disqualified and recast the estimate of this by separating zone V. Tender for cluster I tendered but both the bidders disqualified in the prequalification process. Action is being taken to retender the work. 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 prepared but 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 Zone 1&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 without centage submitted to Corporation under AMRUT 2.0 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</p>

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								Punnakkamughal wards) is prepared and submitted on 30.03.2023.As suggested for identifying Corporation/Govt. lands for 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 will be 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 for Cluster 3 Zone 1&3 revised and submitted to Corporation for getting AS under UIDF.
3.1.8	Total Amount required	Kerala Water Authority	5000CR					
Solid wastema nagement								
	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

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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) 2026							
Analysis Report for the month of January- 2026							
Name of River		KARAMANA					
Date and Time of Sample collection		09-01-2026					
Method of analysis							
Sl no.	Parameters	SAMPLE ID					
		Peppara	Aruvikkara	Mangattukadavu	Pallathukadavu	Thiruvallom	Moonnattumukku
1	Temperature (°C)	29.8	29.5	29.8	30.2	30	29.5
2	Dissolved O2 (mg/L)	7.4	7.5	5.5	4.7	0.3 (BDL)	0 (BDL)
3	pH	6.7	6.4	6.5	7	6.8	6.8
4	Conductivity (µmho/Cm)	34	82	143	324	1062	584
5	BOD (mg/L)	0.3 (BDL)	0.6 (BDL)	0.4 (BDL)	2	5.4	6.3
6	Nitrate - N (mg/L)	0.0 (BDL)	1.9	2.1	4.1	6.3	7.9
7	Turbidity (NTU)	1 (BDL)	1 (BDL)	1.1	2	11.2	20
8	Total Alkalinity (mg/L)	10 (BDL)	16 (BDL)	28	52	108	112
9	Chlorides (mg/L)	8	20	24	76	268	96
10	Ammonical N (mg/L)	0.0 (BDL)	0.0 (BDL)	0.0 (BDL)	0.5	12.8	12.5
11	Total Hardness (mg/L)	8 (BDL)	16	28	48	120	88
12	Ca as CaCo3 (mg/L)	6	8	20	36	64	60
13	Mg as CaCo3 (mg/L)	4 (BDL)	8	8	12	56	28
14	Sulphate (mg/L)	1.0 (BDL)	1.8 (BDL)	4.5 (BDL)	6.2	14.7	14.6
15	Sodium (mg/L)	5.2	13.5	15.5	44.3	144	58.2
16	Measured TDS (mg/L)	26	66	89	220	635	337
17	Total Phosphate (mg/L)	0.0036 (BDL)	0.0321 (BDL)	0.0302 (BDL)	0.0046 (BDL)	0.1924 (BDL)	0.1694 (BDL)
18	Boron (mg/L)	0 (BDL)	0.0 (BDL)	0.00 (BDL)	0.00 (BDL)	0.21 (BDL)	0.3 (BDL)
19	Potassium (mg/L)	1.6	6.2	7.2	25.2	72.3	28.8
20	Total Coliform (MPN/100ml)	210	430	1800	2300	17000	21000
21	Fecal Coliform (MPN/100ml)	34	98	920	920	11000	12000
22	SAR	0.81	1.47	1.27	2.79	5.69	2.69

Shine
02/02/2026

ASSISTANT ENVIRONMENTAL SCIENTIST

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
Improvements to Thekkenekara canal and de-silting-	Irrigation Department	1 Year						Flood mitigation work completed
Karimadam tank improvements, de-silting sheet piling/under preparation and providing fencing		1.5 Years				20%		Flood mitigation works ongoing
Development of Karamana basin		1.5 Years						Desiltation of river completed. E-flow statement is submitted.


SUPERINTENDING ENGINEER


		PAMBA					
	Activity	Implementing agency	Progress in the month of November 2025	Progress in the month of December 2025	Progress in the month of January 2026	% works completed	Details of works remaining
A(a)	No industries						
A(a)	Monitoring 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. Niranam Gramapanchayath is an upper kuttanad area, so no such dry land suitable for solid waste treatment plant is available	No new project taken		NA	NA
		Kadapra Panchayath	No new project taken. The panchayath has resolved to identify all polluting involved in pollution of river resources and initiation of penal against them	No new project taken	NA	NA	NA
C	Establishment of Material Collection Facility	Mannar Panchayat	Civil work completed.	Civil work and electrification completed.	Civil work and electrification completed.	90%	ELECTRIFICATION
		Niranam Panchayath	MDF construction completed. 13 mini MCF implemented in all wards.	Civil work and electrification completed.	NA	NA	NA

		Kadapra 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 Panchayat	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	NA
		Kadapra Panchayat	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 glass waste collected in December	Plastic waste and cloth waste collected in february	100%	0%
C	Door to door collection and transportation of municipal solid waste	Mannar Panchayat	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 Panchayath considered that sewage treatment plants are currently not needed 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	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	All house hold toilets have individual septic tank and no outlets to pamba river
C	Construction of compound wall with fencing	Irrigation department	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	Fund to be allotted for the purpose.	Work ongoing		60%	
C	Electrical-Light arrangements and Surveillance cameras	Irrigation department	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 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 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%	100%		
		Niranam Panchayath	100%. Green protocol has implemented in public officers Kadapra Grama Panchayat	100%	NA	NA	
		Kadapra Panchayath	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			
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 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 November 2025	Progress in the month of December 2025	Progress in the month of January 2026	% 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 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	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.			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. 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 (January-2026)

Sl.No	Name of Drain	Parameters														
		pH			Electrical Conductivity(µS/cm)			BOD(mg/l)			TC(Nos/100ml)			FC		
	Months	NOV	DEC	JAN	NOV	DEC	JAN	NOV	DEC	JAN	NOV	DEC	JAN	NOV	DEC	JAN
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	8.7	7.09	NIL	133.9	151.1	NIL	4.03	2.6	NIL	1800	1000	NIL	700	400	NIL
4	KaruvelilThodu	8.5	6.75	6.71	161.5	50.39	152.3	1.25	0.5	1	900	200	800	500	100	400
5	Nochithodu	8.3	7.03	7.06	158.3	482.6	46.17	2.11	2.4	0.4	1600	700	400	600	200	200
6	Pattaparambil Thodu	8.4	7.26	7.11	52.12	50.23	49.89	0.26	1.2	0.2	200	400	500	100	100	100
7	Kappiyarissery Thodu	8.1	7.08	6.96	102.7	49.5	85.96	2.4	1.6	0.73	1000	400	700	500	200	400
8	Kombankery Thodu	8.1	7.02	7.19	61.52	47.23	87.9	1.58	1.4	0.07	1200	200	200	700	100	100
9	Perackalthodu	8	7	7.3	62.64	57.16	72.96	1.58	0.1	0.6	1000	NIL	900	300	NIL	300
10	Erathodu	7	6.99	7.38	160.7	44.32	92.05	0.53	0.7	0.07	400	200	300	100	100	100
11	Kolarayaru	NIL	7.01	7.7	NIL	38.24	40.55	NIL	0.5	0.07	NIL	400	500	NIL	100	100

ACTION PLAN FOR RIVER MANIMALA, KERALA								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of November 2025	Progress in the month of December 2025	Status as on January 2026	% 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	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 allotted for fencing work	0%	Work to be initiated Project report for the holistic rejuvenation of the reach is prepared and submitted to government. fund allotted for fencing work along kalloopara thondra stretch
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				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				100%	0
C	Installing household & community level solid and domestic sewage waste management	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoor panchayaths	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, Kuttoor panchayaths	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 November 2025	Progress in the month of December 2025	Status as on January 2026	% 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
2	B(ii)	Ground water recharging / rain water harvesting in Govt offices	31.03.2021				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

**ANALYSIS REPORT OF DRAINS OF MANIMALA BETWEEN KALLOOPARA AND
THONDRA
January- 2026**

SI NO	BOTTLE NO.	Name of Drains	PH	BOD	TC	FC
1	TK1	Panayampalathodu	6.65	0.67	400	200
2	TK2	PadathupalamThodu	NIL	NIL	NIL	NIL
3	TK3	Thottappuzha	6.76	0.07	200	100
4	TK4	Kuttapuzha under Kattodubridge	6.86	0.73	500	100
5	TK5	Kadavumbara	6.98	1.73	800	400
6	TK6	Drain under Varappalam Bridge	NIL	NIL	NIL	NIL
7	TK7	Drain under kallupalam Bridge	6.82	0.6	800	200
8	TK8	Komalamthodu	6.9	0.07	300	100
9	TK9	Vennikulam Valiyathodu	6.93	0.13	700	200
10	TK10	Paduthodu	6.83	0.4	500	100
11	TK11	Mallappally Valiyathodu	6.63	0.27	700	300

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
A(b)	Augmentation and Revamping of existing STP at near Adwaita Ashramam and to increase the capacity of STP so as to treat more sewage generated in the municipality	Aluva Municipality	Dec 2019	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 Adwaitasramam 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 Adwaitasramam 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 Adwaitasramam 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 existing STP at Aluva Market and to increase the capacity of STP so as to treat more sewage generated in the municipality	Aluva Municipality	2021	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	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		
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 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 Special Squad has been formed for inspection. Inspection is conducted at the outlets leading to canals, streams, and the Periyar, and fines are imposed		

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
A(a)(iv)	Periodical inspection in the Industries, Flats, hotels monitoring of STP,ETP	KSPCB	Periodical	Ongoing	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.	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.	Drain cleaning activities are carried out daily. equipment like JCB, Hitachi , through an annual contract. Equipment for cleaning drains has been purchased.	100	
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/-	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 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 50% 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 50% complete. Biomining operations were suspended in April and will restart in November.	45%	Retaining wall works already completed. 55% of biomining works are pending which will be resumed once we get a continuous rainfree period of 10 days
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. No progress regarding the second unit.	One Plant has been established and is operating. No progress regarding the second unit.	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.

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
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.	No progress reported	No progress reported	NA	IEC awareness activities started. Compound wall painting and wall writing under progress. Various Sign boards, Street plat, Cycle rally etc for awareness on waste disposal is also planned under the IEC plan prepared by KSWMP Project which is under process
A(b)	Installation of common STP for Kalamassery Municipality and ETP at Municipal Market	Kalamassery Municipality	December 2019	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	No progress reported. Informed that the construction of the STP has been decided to be included as a new project in the year 2026.	No progress reported. Informed that the construction of the STP has been decided to be included as a new project in the year 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	Inspection is ongoing. There is currently a possibility of sewage reaching the river from the market. This problem can be solved with the renovation of the market. The PCB, EE informed that a letter was sent to the Municipality regarding the low DO found in the water collected from the Thumbunkal stream and the Putthalam Kadavu on the Idamula branch of the Periyar on June 2, and no reply has been received. PCB EE has informed that the DO level are currently normal.	No action reported	No action reported		
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.	No progress reported	No progress reported	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/-	No progress reported	No progress reported	NA	
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.	No change. 85 cameras have been installed, 2 in each of the 42 wards. Visuals are available.	No change. 85 cameras have been installed, 2 in each of the 42 wards. Visuals are available.		

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
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.1,00,001	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.1,00,002	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.	85 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.	86 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					
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	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.	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 November 2025	Status as on December 2025	Status as on January 2026	% 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	<p>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.</p> <p>Major Irrigation: 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.</p> <p>1. Kuthu thodu The desilting work of kuthu thodu has been completed under operation vahini 2025-26.</p>	<p>Minor Irrigation. No progress from the previous meeting reported. EE opined the local bodies to maintain the streams periodically after the desiltation and dweeding.</p> <p>Major Irrigation No progress reported.</p>	<p>Minor Irrigation. No progress from the previous meeting reported. EE opined the local bodies to maintain the streams periodically after the desiltation and dweeding.</p> <p>Major Irrigation No progress reported.</p>		
C(iii)	Clearing of weeds, grasses at the river bank in order to ensure the smooth flow of water	Irrigation department	3 years	<p>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.</p>	<p>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- This activity is planned to be carried out three times a year to ensure the river remains clean at all times.</p>	<p>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- This activity is planned to be carried out three times a year to ensure the river remains clean at all times.</p>		

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
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	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	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	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		
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."				
A(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 rectification sketch for the drainage system was given to PWD. PWD needs to submit the Feasibility Report to the industrial estate.	Letter was issued to PWD for the drainage-rectification work on 05.03.2025. Reminder will be sent. No progress reported from the meeting held on 01.07.2025.	Letter was issued to PWD for the drainage-rectification work on 05.03.2025. Reminder will be sent. No progress reported from the meeting held on 01.07.2025.	100%	
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."				

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
E	Installation of Night vision surveillance cameras at the River Bank side	KSPCB	2020	Surveillance cameras and related equipment have been installed	9 Surveillance cameras and related equipment have been installed	9 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.	Regular inspections including night surveillance are being conducted by ESC, Eloor.	Regular inspections including night surveillance are being conducted by ESC, Eloor.	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.	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.	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.	43 cameras have been installed currently.	44 cameras have been installed currently.	100	NIL
A(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Choomikkara 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. Fine 40,000 - November	Inspections are being conducted, the panchayat is directed to update the details of fines collected recently, if any. Fine 40,000 - November		
	Installation of cameras at the waste dumping spots	Choomikkara 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.	57 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. Implementing authority is KMRL.	58 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. Implementing authority is KMRL.		
LONG TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% 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 November 2025	Status as on December 2025	Status as on January 2026	% 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 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 & Demarcation 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	No progress reported. Reminder will be send to the District Collector and the Land Records Tahsildar, requesting them to take necessary steps to complete the demarcation work at the earliest.	No progress reported. Reminder will be send to the 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	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.	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 November 2025	Status as on December 2025	Status as on January 2026	% 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						

KERALA STATE POLLUTION CONTROL BOARD**ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR****ANALYSIS REPORT OF RIVER PERIYAR -DECEMBER 2025**

Sampling point: VETTUKADAVU

Sl. No	Parameter	Unit	05.12.2025	25.12.2025
1	Temperature	°c	30.7	29.4
2	pH		7.45	6.7
3	Conductivity	µS/cm	87.35	5532
4	TDS	NTU	50.56	3201.92
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	12.40	6.8
8	Chlorides	"	14.9	1886.472
9	Hardness	"	25	1000
10	D.O.	"	6.3	5.5
11	COD	"	4.12	2.4
12	Calcium	"	7.6	200
13	Magnesium	"	1.458	121.5
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.136	0.262
17	Hexa Chromium	"	0.048	0.042
18	Oil & Grease	"	4.32	2.2
19	Iron	"	0.363	0.452
20	Sulphides	"	BDL	BDL
21	Sulphates	"	5.625	70.313
22	Total Alkalinity	"	13.3	285
23	Nitrate	"	1.953	2.688
24	BOD	"	0.1	5.5
25	TC	"	100	240
26	FC	"	60	120
27	FS	"	0	80
28	Sodium	ppm	1.02	2.84
29	Potassium	ppm	0.88	1.04
30	SAR	meq/L	0.088	0.039

* 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 -DECEMBER 2025
Sampling point: PATHALAM BRIDGE

Sl. No	Parameter	Unit	05.12.2025	25.12.2025
1	Temperature	°c	30.7	29.3
2	pH		7.3	7.1
3	Conductivity	µS/cm	49	129
4	TDS	NTU	28.24	74.43
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	2.20	2.60
8	Chlorides	"	8	20
9	Hardness	"	16	15
10	D.O.	"	6.8	5.9
11	COD	"	1.08	1.2
12	Calcium	"	5.2	5.2
13	Magnesium	"	0.729	0.486
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.141	0.104
17	Hexa Chromium	"	0.045	0.042
18	Oil & Grease	"	4.8	1.08
19	Iron	"	0.349	0.311
20	Sulphides	"	BDL	BDL
21	Sulphates	"	1.25	8.281
22	Total Alkalinity	"	13.3	24.7
23	Nitrate	"	1.63	1.093
24	BOD	"	0.9	2
25	TC	"	220	120
26	FC	"	120	40
27	FS	"	20	60
28	Sodium	ppm	1.24	1.62
29	Potassium	ppm	0.68	0.98
30	SAR	meq/L	0.133	0.179

* 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 -DECEMBER 2025****Sampling point: PUTHALAM KADAVU**

Sl. No	Parameter	Unit	05.12.2025	25.12.2025
1	Temperature	°c	30.5	29.1
2	pH		7.40	7.1
3	Conductivity	µS/cm	49.30	63
4	TDS	NTU	28.53	36.29
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	4.6	4.02
8	Chlorides	"	7.94	6.95
9	Hardness	"	15	14
10	D.O.	"	6.8	6.3
11	COD	"	2.42	2
12	Calcium	"	0.049	4.4
13	Magnesium	"	0.972	0.729
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.141	0.132
17	Hexa Chromium	"	0.049	0.042
18	Oil & Grease	"	2.72	3.2
19	Iron	"	0.424	0.311
20	Sulphides	"	BDL	BDL
21	Sulphates	"	1.094	0.625
22	Total Alkalinity	"	17.1	22.8
23	Nitrate	"	1.523	1.022
24	BOD	"	1.3	2.4
25	TC	"	200	220
26	FC	"	40	120
27	FS	"	20	160
28	Sodium	ppm	1.28	0.98
29	Potassium	ppm	1.06	0.45
30	SAR	meq/L	0.142	0.113

* 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 -DECEMBER 2025

Sampling point: PATHALAM BUND U/S

Sl. No	Parameter	Unit	05.12.2025	25.12.2025
1	Temperature	°c	B	29.4
2	pH		U	6.98
3	Conductivity	µS/cm	N	165
4	TDS	NTU	D	95.68
5	Turbidity	mg/L		*
6	Colour	"	O	20.0
7	SS	"	P	3.04
8	Chlorides	"	E	38
9	Hardness	"	N	28
10	D.O.	"		6.8
11	COD	"		1.6
12	Calcium	"		7.2
13	Magnesium	"		2.43
14	Ammoniacal Nitrogen	"		0.01
15	Free Ammonia	"		BDL
16	Phosphates			0.14
17	Hexa Chromium	"		0.046
18	Oil & Grease	"		2.6
19	Iron	"		0.208
20	Sulphides	"		BDL
21	Sulphates	"		2.813
22	Total Alkalinity	"		19
23	Nitrate	"		1.344
24	BOD	"		2.5
25	TC	"		160
26	FC	"		80
27	FS	"		80
28	Sodium	ppm		1.24
29	Potassium	ppm		0.82
30	SAR	meq/L		0.101

* 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 -DECEMBER 2025

Sampling point: PATHALAM BUND D/S

Sl. No	Parameter	Unit	05.12.2025	25.12.2025
1	Temperature	°c	30.5	29.4
2	pH		7.22	6.98
3	Conductivity	µS/cm	119.10	6404
4	TDS	NTU	68.94	3706.64
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	2.2	2.2
8	Chlorides	"	24.822	1985.76
9	Hardness	"	19	14
10	D.O.	"	6.8	7
11	COD	"	3.04	2.4
12	Calcium	"	5.6	200
13	Magnesium	"	1.215	218.7
14	Ammoniacal Nitrogen	"	BDL	0.371
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.136	0.188
17	Hexa Chromium	"	0.046	0.042
18	Oil & Grease	"	3.36	4.2
19	Iron	"	0.349	0.269
20	Sulphides	"	BDL	BDL
21	Sulphates	"	0.781	34.688
22	Total Alkalinity	"	13.3	190
23	Nitrate	"	1.827	1.505
24	BOD	"	0.9	3.3
25	TC	"	120	320
26	FC	"	20	100
27	FS	"	0	40
28	Sodium	ppm	2.4	2.23
29	Potassium	ppm	1.26	1.06
30	SAR	meq/L	0.237	0.026

* 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 -DECEMBER 2025

Sampling point: MANJUMMAL BUND

Sl. No	Parameter	Unit	05.12.2025	25.12.2025
1	Temperature	°c	30.3	29.3
2	pH		7.03	6.9
3	Conductivity	µS/cm	47.79	123
4	TDS	NTU	27.66	70.96
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	4.40	4.60
8	Chlorides	"	7.9	7
9	Hardness	"	16	16
10	D.O.	"	6.98	5.7
11	COD	"	1.08	1.04
12	Calcium	"	4.8	3.6
13	Magnesium	"	0.972	1.701
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.132	0.121
17	Hexa Chromium	"	0.048	0.042
18	Oil & Grease	"	3.92	2.2
19	Iron	"	0.443	0.377
20	Sulphides	"	BDL	BDL
21	Sulphates	"	0.625	3.594
22	Total Alkalinity	"	15.2	20.9
23	Nitrate	"	1.648	0.986
24	BOD	"	1.38	2.5
25	TC	"	160	120
26	FC	"	40	60
27	FS	"	20	40
28	Sodium	ppm	1.06	2.04
29	Potassium	ppm	0.58	1.24
30	SAR	meq/L	0.114	0.219

* 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 -DECEMBER 2025****Sampling point: ALUVA - MANAPPURAM**

Sl. No	Parameter	Unit	05.12.2025	25.12.2025
1	Temperature	°c	30.5	29.4
2	pH		7.12	6.9
3	Conductivity	µS/cm	48.38	48.34
4	TDS	NTU	28.00	27.98
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20
7	SS	"	2.40	2.4
8	Chlorides	"	9.93	4.96
9	Hardness	"	15	12
10	D.O.	"	6.2	7.3
11	COD	"	2.24	2
12	Calcium	"	4.4	3.2
13	Magnesium	"	0.972	0.972
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.141	0.126
17	Hexa Chromium	"	0.048	0.039
18	Oil & Grease	"	3.64	2
19	Iron	"	0.391	0.269
20	Sulphides	"	BDL	BDL
21	Sulphates	"	0.938	1.094
22	Total Alkalinity	"	15.2	19
23	Nitrate	"	1.505	1.004
24	BOD	"	0.8	1.4
25	TC	"	80	280
26	FC	"	0	120
27	FS	"	0	80
28	Sodium	ppm	0.99	0.64
29	Potassium	ppm	0.26	0.36
30	SAR	meq/L	0.109	0.079

* 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 -JANUARY 2026

Sampling point: VETTUKADAVU

Sl. No	Parameter	Unit	05.01.2026	25.01.2026
1	Temperature	°c	30.4	31.2
2	pH		7.01	6.9
3	Conductivity	µS/cm	3186.00	13740
4	TDS	NTU	1844.06	7952.71
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	1.20	2.20
8	Chlorides	"	1985.76	4170.096
9	Hardness	"	700	1800
10	D.O.	"	5.7	7.1
11	COD	"	10.8	12
12	Calcium	"	120	80
13	Magnesium	"	160	388.8
14	Ammoniacal Nitrogen	"	1.182	0.275
15	Free Ammonia	"	0.01182	0.0022
16	Phosphates		0.16	0.189
17	Hexa Chromium	"	0.063	0.05
18	Oil & Grease	"	4.2	2.6
19	Iron	"	0.208	0.588
20	Sulphides	"	BDL	BDL
21	Sulphates	"	72.969	250
23	Nitrate	"	0.789	0.752
22	Total Alkalinity	"	26.6	41.8
24	BOD	"	5.73	4.3
25	TC	"	260	160
26	FC	"	200	100
27	FS	"	140	0
28	Sodium	ppm	32	53.8
29	Potassium	ppm	22.4	18.4
30	SAR	meq/L	0.42	0.55

* TURBIDITY METER IS OUT OF ORDER

KERALA STATE POLLUTION CONTROL BOARD**ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR****ANALYSIS REPORT OF RIVER PERIYAR -JANUARY 2026****Sampling point: PATHALAM BRIDGE**

Sl. No	Parameter	Unit	05.01.2026	25.01.2026
1	Temperature	°c	30.5	31.0
2	pH		7.1	7.2
3	Conductivity	µS/cm	54.8	233
4	TDS	NTU	31.72	134.86
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	0.40	1.20
8	Chlorides	"	11	23
9	Hardness	"	13.00	20.00
10	D.O.	"	6.1	6.3
11	COD	"	6.2	3.1
12	Calcium	"	3.2	6.4
13	Magnesium	"	1.22	0.972
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.132	0.136
17	Hexa Chromium	"	0.048	0.038
18	Oil & Grease	"	3.200	3.240
19	Iron	"	0.260	0.269
20	Sulphides	"	BDL	BDL
21	Sulphates	"	9.688	10.469
23	Nitrate	"	0.412	0.734
22	Total Alkalinity	"	17.1	19
24	BOD	"	1.67	1.2
25	TC	"	260	280
26	FC	"	200	120
27	FS	"	140	40
28	Sodium	ppm	0.82	0.650
29	Potassium	ppm	0.62	0.950
30	SAR	meq/L	0.1	0.06

* TURBIDITY METER IS OUT OF ORDER

KERALA STATE POLLUTION CONTROL BOARD**ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR****ANALYSIS REPORT OF RIVER PERIYAR -JANUARY 2026****Sampling point: PUTHALAM KADAVU**

Sl. No	Parameter	Unit	05.01.2026	25.01.2026
1	Temperature	°c	30.5	31.1
2	pH		7.04	7.0
3	Conductivity	µS/cm	44.47	90
4	TDS	NTU	25.74	52.10
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	3.20	1.60
8	Chlorides	"	9.93	12
9	Hardness	"	11	14
10	D.O.	"	5.8	4.9
11	COD	"	3.2	2.04
12	Calcium	"	3.2	4.4
13	Magnesium	"	0.729	0.729
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.155	0.127
17	Hexa Chromium	"	0.05	0.038
18	Oil & Grease	"	2.02	4.02
19	Iron	"	0.274	0.344
20	Sulphides	"	BDL	BDL
21	Sulphates	"	2.031	3.75
23	Nitrate	"	0.376	0.77
22	Total Alkalinity	"	15.2	17.1
24	BOD	"	1.5	1.2
25	TC	"	300	120
26	FC	"	220	40
27	FS	"	60	40
28	Sodium	ppm	1.8	1.3
29	Potassium	ppm	0.82	0.8
30	SAR	meq/L	0.23	0.15

* TURBIDITY METER IS OUT OF ORDER

KERALA STATE POLLUTION CONTROL BOARD
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR
ANALYSIS REPORT OF RIVER PERIYAR -JANUARY 2026

Sampling point: PATHALAM BUND U/S

Sl. No	Parameter	Unit	05.01.2026	25.01.2026
1	Temperature	°c	30.6	31.1
2	pH		7.1	6.9
3	Conductivity	µS/cm	91.34	172.8
4	TDS	NTU	52.87	100.02
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	3.20	4.20
8	Chlorides	"	12	33
9	Hardness	"	14	23
10	D.O.	"	5.9	6.5
11	COD	"	4.16	2.12
12	Calcium	"	4.4	6.8
13	Magnesium	"	0.729	1.458
14	Ammoniacal Nitrogen	"	0.226	BDL
15	Free Ammonia	"	0.00226	BDL
16	Phosphates		0.141	0.132
17	Hexa Chromium	"	0.053	0.038
18	Oil & Grease	"	3.42	2.14
19	Iron	"	0.424	0.297
20	Sulphides	"	BDL	BDL
21	Sulphates	"	7.5	11.875
23	Nitrate	"	1.559	0.03
22	Total Alkalinity	"	17.1	19
24	BOD	"	3.6	1.8
25	TC	"	240	200
26	FC	"	60	20
27	FS	"	40	40
28	Sodium	ppm	1.6	1.1
29	Potassium	ppm	0.84	0.94
30	SAR	meq/L	0.18	0.1

* TURBIDITY METER IS OUT OF ORDER

KERALA STATE POLLUTION CONTROL BOARD**ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR****ANALYSIS REPORT OF RIVER PERIYAR -JANUARY 2026**

Sampling point: PATHALAM BUND D/S

Sl. No	Parameter	Unit	05.01.2026	25.01.2026
1	Temperature	°c	30.7	31.2
2	pH		6.90	6.8
3	Conductivity	µS/cm	5397.00	3549
4	TDS	NTU	3123.78	2054.16
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	0.28	3.60
8	Chlorides	"	1787.2	993
9	Hardness	"	700	300
10	D.O.	"	5.1	6.3
11	COD	"	6.2	3.24
12	Calcium	"	200	40
13	Magnesium	"	48.6	48.6
14	Ammoniacal Nitrogen	"	0.062	0.101
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.141	0.151
17	Hexa Chromium	"	0.048	0.041
18	Oil & Grease	"	3.6	3.24
19	Iron	"	0.288	0.363
20	Sulphides	"	BDL	BDL
21	Sulphates	"	55.781	92.969
23	Nitrate	"	0.699	0.752
22	Total Alkalinity	"	24.7	43.7
24	BOD	"	2.1	2
25	TC	"	100	80
26	FC	"	60	40
27	FS	"	20	20
28	Sodium	ppm	22.8	21.3
29	Potassium	ppm	2.8	5.5
30	SAR	meq/L	0.37	0.78

* TURBIDITY METER IS OUT OF ORDER

KERALA STATE POLLUTION CONTROL BOARD
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR
ANALYSIS REPORT OF RIVER PERIYAR -JANUARY 2026

Sampling point: MANJUMMAL BUND

Sl. No	Parameter	Unit	05.01.2026	25.01.2026
1	Temperature	°c	30.5	31.1
2	pH		6.70	6.8
3	Conductivity	µS/cm	42.39	127
4	TDS	NTU	24.54	73.39
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	10.00	3.20
8	Chlorides	"	9.9	10
9	Hardness	"	10	14
10	D.O.	"	5.6	5.7
11	COD	"	3.24	6.4
12	Calcium	"	3.2	4
13	Magnesium	"	0.486	0.972
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.141	0.136
17	Hexa Chromium	"	0.049	0.04
18	Oil & Grease	"	3.42	2.02
19	Iron	"	0.368	0.316
20	Sulphides	"	BDL	BDL
21	Sulphates	"	5.156	7.5
23	Nitrate	"	0.358	0.681
22	Total Alkalinity	"	15.2	19
24	BOD	"	1.2	0.2
25	TC	"	180	140
26	FC	"	80	60
27	FS	"	80	20
28	Sodium	ppm	1.6	1.1
29	Potassium	ppm	0.82	0.8
30	SAR	meq/L	0.22	0.13

* TURBIDITY METER IS OUT OF ORDER

KERALA STATE POLLUTION CONTROL BOARD**ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR****ANALYSIS REPORT OF RIVER PERIYAR -JANUARY 2026****Sampling point: ALUVA - MANAPPURAM**

Sl. No	Parameter	Unit	05.01.2026	25.01.2026
1	Temperature	°c	30.9	31.2
2	pH		7.0	6.8
3	Conductivity	µS/cm	45.45	93.43
4	TDS	NTU	26.31	54.08
5	Turbidity	mg/L	*	*
6	Colour	"	20	20
7	SS	"	14.80	2.2
8	Chlorides	"	9	9.9288
9	Hardness	"	12	14
10	D.O.	"	6.4	5.3
11	COD	"	2.04	3.12
12	Calcium	"	3.2	4
13	Magnesium	"	0.972	0.972
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.165	0.151
17	Hexa Chromium	"	0.049	0.038
18	Oil & Grease	"	2.8	2.45
19	Iron	"	0.255	0.405
20	Sulphides	"	BDL	BDL
21	Sulphates	"	5.625	4.375
22	Total Alkalinity	"	17.1	17.1
23	Nitrate	"	0.448	0.412
24	BOD	"	1.7	1.2
25	TC	"	160	340
26	FC	"	120	160
27	FS	"	20	60
28	Sodium	ppm	1.8	1.1
29	Potassium	ppm	0.52	0.78
30	SAR	meq/L	0.22	0.13

* TURBIDITY METER IS OUT OF ORDER

KADALUNDY								
1 2. Malappuram Municipality - Short Term Solid & Liquid Waste Management Action Plan								
No.	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% 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 occupied and land clearance	Land in ward I	NA
1.2	Valiyathodu Cleaning - 8 Km length	Malappuram Municipality	Completed	Cleaned			50%	Work ongoing
1.3	Installation of screening net in the Valiyathode	Malappuram Municipality	December 2019	Inspected	Inspected		100	NA
1.4	Identification of polluting points in Kadalundi river & awareness campaign - River walk(puzha nadatham – 15 km length)	Malappuram Municipality	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	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			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			100%	NA
1.1	Identification and monitoring of illegal activities CC tv Network installation	Malappuram Municipality	March 2020	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 November 2025	Status as on December 2025	Status as on January 2026	% of works completed	Details of works remaining
No.	Activity	Implementing agency		Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% of works completed	Details of works remaining
2.1	River water quality Monitoring- Thirurangadi, Hajiyarpally National Water Quality Programme(NWMP)	KSPCB		Ongoing; Monthly frequency	Ongoing monthly frequently	Ongoing monthly frequently		100%	
2.2	River water quality Monitoring - Thirurangadi, Kooriyad, Manikut, Hajiyarpally, Anakayam, Oravamburum - State Water monitoring programme (SWMP)	KSPCB		Ongoing; Seasonal - Pre -monsoon, monsoon, post -monsoon	Ongoing monthly frequently	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	Ongoing		100%	
3.Ground Water Department									
No.	Activity	Implementing agency		Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% 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 extraction 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 extraction (upto 2500 LPD) is allowed.	Groundwater extraction 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 extraction (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 November 2025	Status as on December 2025	Status as on January 2026	% 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 renovation. Vengara- 3 pit, 1 OW Kondotty-5 pit, 1 OW Tirurangadi-2 pit,2 OW Vallikkunnu-1 pit	Malappuram-1 recharge pit, 10 OW recharge Mankada-1pit, 4 OW, 1 Pond renovation. 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.	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			For irrigation purposes,Pump ing test in their well is done and safe yield is calculated and will inform the applicant	For irrigation purposes,Pump ing test in their well is done and safe yield is calculated and will inform the applicant		% of works completed cannot be mentioned.	NA

**ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN KADALUNDY RIVER -
DECEMBER 2025**

Sl.No	Name of point	PARAMETERS				
		pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	FC (cfu/100 ml)
1	Valiyangadi drain	7.3	7.5	1.2	3.4	80
2	Valiyangadi bypass drain	DRIED				
3	Valiyathod drain	7.2	7.1	2.5	4.2	60
4	Hajiyarpally	6.9	7.5	1	3.2	240
5	Tirurangadi	6.7	6.8	1.4	3.4	280



ASSISTANT SCIENTIST

TIRUR								
2 IRRIGATION DEPARTMENT								
No.	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% 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. Bill Paid (Rs 2984168/- including GST)	Remarks-These two works are arranged as single work named as "General-National Green Tribunal-Rejuvenation of polluted rivers-Tirur-Ponnanippuzha-General Civil work"amounting Rs 30.10 L . Work Completed. Bill Paid (Rs 2984168/- including GST)
1.1.2	Cleaning and development of old Ponnani thodu at Thazhepalam	Irrigation Department	6 Months				100%	

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	Civil work still stand due to issue in site.			8%	<p>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 IDRIB 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 the work is tendered anew..</p>
3	4 TIRUR MUNICIPALITY – SHORT TERM ACTION PLAN							

No.	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
1.2.1	Provide septic tank for nearest houses	Tirur Municipality	Dec 2019	completed	completed	completed	100%	completed
1.2.2	Establishment of Solid waste Treatment Plant ThumboorMozhi Model Aerobic Bin	Tirur Municipality	March 2020	completed	completed	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	completed	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	completed	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	Local tender is being invited	Local tender is being invited	Local tender is being invited	Local tender is being invited
1.2.7	Planting of Bamboo seedlings on the river bank (Thazhepalam)	Tirur Municipality	June 2020	completed	completed	completed	100%	Ongoing
1.2.8	Renovation of Effluent treatment plant at fish Market AMC Granted ETP with Aeorobic System	Tirur Municipality	June 2019	completed	completed	completed	100%	completed
1.2.9	Setting up of STP at Private Bus stand	Tirur Municipality	June 2020	completed	completed	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	completed	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	completed	completed	100%	Ongoing
5	6 Cheriyamundam Grama panchayat							
No.	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
1.3.1	Fencing on bridge side Thalakkadatur	Cheriyamundam Grama panchayat	March 2020	Completed	Completed	Completed	100	Completed
4.Kerala State Pollution Control Board								
No.	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of works remaining
1.4.1	River water quality Monitoring- Thalakkadathur National Water Quality Programme(NWMP)	KSPCB	Ongoing; Monthly frequency					
1.4.2	River water quality Monitoring State Water monitoring programme (SWMP)	KSPCB	Ongoing; Seasonal					
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					
No.	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% 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					% 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.)						% 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)						% 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.)							
6. ACTION PLAN BY VARIOUS GRAMA PANCHAYATHS- Thalakkad, Vettom, Mangalam								
No.	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% 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				100	

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

**ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN TIRUR RIVER -
DECEMBER 2025**

SI NO	Name of point	PARAMETERS				
		pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	FC (cfu/100ml)
1	Drain near Tirur Railway station	7.0	4.1	1.3	3.4	120
2	Thazhepalam drain	6.6	4.1	1.7	3.8	100
3	Naduvilangadi drain (old ponnaniyodu)	Dried				
4	Annassery drain	Dried				
5	Canal at CV Land	Dried				
6	Canal at Mangalam thuruth					
7	Canal at Pullooni	6.9	4.3	1.6	4.4	60
8	Drain near Mangattiri bridge	Road block due to maintenance work				
9	Drain near Ettirikkadavu bridge	6.9	4.3	1.7	3.6	100
10	Epothingal	6.9	4.3	1.9	4.2	280
11	Asarikkadav	Dried				
12	Kandanathkadav	Dried				
13	Pancharamoola	Dried				
14	Kakadav	6.8	3.7	1.4	3.8	80
15	Kanathkadav	6.8	3.6	2.1	4.2	100
16	Drain near tirur railway station	Dried				
17	Payyanangadi (kadayiyodu)	Dried				
18	Thalakkadathur	6.8	5.1	1.9	4.3	500
19	Naduvilangadi	7.3	4.8	1.9	3.8	420



ASSISTANT SCIENTIST

KALLAYI								
Kozhikode Corporation								
No.	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% 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	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 administrative 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	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	<p>Setting up of common STP of(13 MLD)</p> <p>7.1 At Kothi bridge- 6 MLD plant proposed</p> <p>7.2 At Avikkal -7 MLD plant proposed</p>	Kozhikode Corporation	31.03.2020	Project dropped due to Public protest and court cases.		<p>WEST Hill -15 MLD</p> <p>To be started:</p> <p>For STP- 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 were submitted to the KCZMA for CRZ consent on 16.12.2026. Pending with KCZMA.</p> <p>For Network- The AS revision was approved by the SHPSC dated 27.10.2025. Due to a court case and a nd court order, the pipe purchase amount was released to the contractor on 29.11.2025. The CRZ Status report, EIA Report, Disaster Management Report and Risk Assessment Report for CRZ approval have been prepared. The consent to establish was received from the PCB on 28.11.2025. The details were submitted to the KCZMA for CRZ consent on 16.12.2026. The survey was completed. The revised network design is to be submitted by the contractor. expected to be submitted by the 4th week of February.</p>	0%	15 MLD STP with 98 km Network
8	Implementation of STP at Kottooli (13.5 MLD)	KWA		<p>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</p>		Award Pending	0%	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	Periodical cleaning		Continuous - seasonal
10	Purchasing of Solar Boat for Canoli canal cleaning	Kozhikode Corporation	31.03.2020	Project dropped	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	Ongoing		On going
12	Establishment of Mobile Septage Units	Kozhikode Corporation	31.03.2020	Project dropped	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	Continuing random inspections and imposing fine regularly	Continuous
14	Cleaning of B.K canal	Kozhikode Corporation	31.03.2020	Completed	Completed	Completed	100%	
15	Establishment of treatment plant at Medical college (3 MLDplant) 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.	Completed and functioning.	100%	Functioning
16	Construction of drains at Y.M.RC Ayyankar colony	Kozhikode Corporation	31.03.2020	90% coverage	93%	90%	95%	On going
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 November 2025	Status as on December 2025	Status as on January 2026	% 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	Inspection conducting regularly		Inspection conducting regularly	80% completed	Processing
6	Implementation of 360 compost unit near river side and panchayat	Perumanna Panchayat , Kozhikode through MGNREGS	12/2021	Work completed(100% coverage)		Work completed(100% coverage)	80% completed	Processing
7	Implementation of water flow project (Aluvangal Thazham Perumbatta Elamanapadam, Valiyapadam.Mampuzhthode Naveekarana, project no 260/2021 project cost16.67 Lakhs).	Perumanna Panchayat	12/2021	Work completed		Work 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 November 2025	Status as on December 2025	Status as on January 2026	% 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	Completed
5	Cleaning of Mambuzha river (Mambuzha renovation) project no :190/2017 -18	District panchayat Kozhikode	2017 -2018	Completed	completed	Completed	Completed	
6	Establishment of 8 numbers of mini MCF	Peruvayal GP through MGNREGS	04/2023 TO 03/2024	80% completed	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 November 2025	Status as on December 2025	Status as on January 2026	% works completed	Details of work remaining
1	Transportation of waste management to refinement unit	Konnari Advanced Polymers Limited	2022-23	Completed		Completed	100%	

Irrigation Department								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on November 2025	Status as on December 2025	Status as on January 2026	% 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 12%			22%	Ongoing
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 providing chain linked fencing for Mooriyad road bridge(Work 100% completed)			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				
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	Status as on November 2025	Status as on December 2025	Status as on January 2026	% 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 November 2025	Status as on December 2025	Status as on January 2026	% 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 November 2025	Status as on December 2025	Status as on January 2026	% 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 Kozhikode 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 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 (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 November 2025	Status as on December 2025	Status as on January 2026	% 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)	16%	

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 Kozhikode.		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 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 റിജ്യണൽ ഓഫീസ്
REGIONAL OFFICE, KOZHIKODE



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

KALICUT 10/2/26
Kerala State Pollution Control Board

ANALYSIS REPORT OF RIVER WATER

Report No.	K R O S 5 9 2 2 / 1 to 5	Date:	0 4 0 2 2 0 2 6					
Date of Sample Collection	1 0 0 1 2 0 2 6	Date of receipt of the sample	1 3 0 1 2 0 2 6					
Sampled by:	RL ,KKD	Time	Hours: 1 1 : 0 0 AM					
Sampling Method	APHA1060B,a	Sample ID	KL1, KL2, KL3, KL5,& KL6					
Sample container	PC 2.5 L	Sample Lab Code	KROS :5922/1-5					
Source:	KALLAI RIVER WATER	Ref.letter No.	PCB/KKD/DO/ Polluted River Stretch/2018 Vol. IV, Dated 13.01.2026					
Specific sampling location:	KALLAI POLLUTED RIVER STRETCH	Received from:	EE,DO,KKD					
		Period of analysis:	13.01.2026-04.02.2026					
Sample preservation:	Ice box	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	7.22	7.26	7.31	7.4	7.5
2	CONDUCTIVITY	µmhos /cm	APHA 2510B	13470	19660	21200	36400	23750
3	BOD	mg/L	IS3025 (Part 44)	4.4	1.47	4.67	3.4	2.2
4	DISSOLVED OXYGEN	mg/L	APHA 4500-O,C	3.5	5.5	5.7	3.1	5.6
5	TOTAL COLIFORM,	CFU/100ml	APHA 9222B	14000	26000	28000	44000	21000
6	FECAL COLIFORM	CFU/100ml	APHA 9222D	9000	19000	18000	36000	13000
7	FECAL STREPTOCOCCUS	CFU/100ml	APHA 9230 C	580	330	490	470	4100
8	TEMPERATURE	°C	APHA 2550B	27	27	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 .

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 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 <ul style="list-style-type: none"> • 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
	<ul style="list-style-type: none"> • Monitoring at State level must take place 	22.01.2020	NIL
6	Progress report may be furnished by the State/UTs to <ul style="list-style-type: none"> • 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

<p>(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.</p>	<p>2020-2021</p>	<p>pollution were identified. The drains are seasonal and water quality is above the require limit, no in situ.</p>
<p>(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p>		<p>Proposal for setting up an FSTP by Chengannur municipality is initiated.</p>
<p>(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</p>		<p>Since the area does not contain any industry no requirement of any CETP, this action. Plan revised.</p>
<p>(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p>	<p>2019-2020</p>	<p>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 1 year.</p>
<p>(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;</p>	<p>2020-2021</p>	<p>Water quality analysis result of the stretch up to DECEMBER 2023 is enclosed.</p>
<p>(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.</p>	<p>2020-2021</p>	<p>Awareness campaigns initiated. No groundwater pollution is noted in the area action yet to</p>

(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 November 2025	Progress in the month of December 2025	Progress in the month of January 2026	% 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				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 Recovery Facilities (RRF)	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoorpanchayaths	31.12.2020					NA	NA
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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 November 2025	Progress in the month of December 2025	Progress in the month of January 2026	% 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	31.03.2021					

	no.496/2016 Identification of illegal bore wells in the catchment area.	Identification of illegal bore wells in the catchment area.						
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**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 PAMBA, PATHANAMTHITTA JANUARY 2026

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 <ul style="list-style-type: none"> • 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	-
	<ul style="list-style-type: none"> • Monitoring at State level must take place 	NA	-
6	Progress report may be furnished by the State/UTs to <ul style="list-style-type: none"> • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB 	NA	-
6.1	Progress Report may be comprised of details along with completion timelines on:		

<p>(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.</p> <p>(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>(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</p> <p>(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;</p> <p>(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.</p>		<p>Presently no STP in the panchayat</p> <p>Presently no CETP or ETP in the panchayat</p> <p>Door to door plastic waste collection, Supply of waste bins, Construction of compost pits etc.</p> <p>Not Available</p> <p>Biomedical waste disposed through IMAGE , Plastic waste collected door to door by Haritha Karma Sena</p> <p>Yes, Going On</p>
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<p>(vii)Ground water regulation</p> <p>(viii) Adopting good irrigation practices</p> <p>(ix) Protection and management of food plain Zones (FPZ)</p> <p>(x) Rain water harvesting</p> <p>(xi)Maintaining minimum Environmental flow of river</p> <p>(xii) Plantation on both sides of the river</p> <p>(xiii)Setting up biodiversity parks on flood plains by removing encroachment</p>	<p>-</p> <p>Yes, Going On</p> <p>Yes, Going On</p>
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ACTION PLAN FOR RIVER PAMBA, KERALA

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	% works completed	Details of works remaining
A(a)	No industries	-	-					
A(a)	Monitornng of river	Kerala State	Continuing					

	water quality	Pollution Control Board	project					
C(ii)	Establishment of decentralized solid waste treatment facility	MannarPanchayat, Kadapra/ NiranamPanchayath	31.03.2021	No new project taken	No new projects	No new projects		
C	Establishment of Material Collection Facility	MannarPanchayat, Kadapra/ NiranamPanchayath	31.03.2021	CIVIL WORK COMPLETED	CIVIL WORK & ELECRIFICATION 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 & GLASS WASTE COLLECTION	PLASTIC WASTE COLLECTION		
C	Door to door collection and transportation of municipal solid waste	MannarPanchayat	31.03.2021	Userfee collection 75.4 %	Userfee collection 75.55 %	Userfee collection % 74.2 %		
C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Parumala Town	KadapraPanchayat	31.12.2020					
C	Construction of small	MannarPanchayat	31.12.2020	Projects has to be	Projects has to be	Projects has to be		

	sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Mannar Town			taken	taken	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) (ii)	Green Protocol implementation in all Offices institution & Public function	Mannar, Kadapra/ NiranamPanchayat	31.05.2020	100%	100%	100%		

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 &E WASTE COLLECTED BY HARITHAKARMASENA	PLASTIC & GLASS WASTE COLLECTED BY HARITHAKARMASENA	PLASTIC 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 NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	% 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 water 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

**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 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 <ul style="list-style-type: none">● Specifying accountability of nodal authorities not below the Secretary level● Chief Secretaries may have an accountable person attached in their office for this purpose		
	<ul style="list-style-type: none">● Monitoring at State level must take place		
6	Progress report may be furnished by the State/UTs to <ul style="list-style-type: none">● Secretary, Ministry of Jal Shakti● Member Secretary, CPCB		

6.1	<p>Progress Report may be comprised of details along with completion timelines on:</p> <p>(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.</p> <p>(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>(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</p> <p>(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;</p> <p>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.</p> <p>(vii) Ground water regulation</p> <p>(viii) Adopting good irrigation practices</p> <p>(ix) Protection and management of food plain Zones (FPZ)</p> <p>(x) Rain water harvesting</p> <p>(xi) Maintaining minimum Environmental flow of river</p> <p>(xii) Plantation on both sides of the river</p> <p>(xiii) Setting up biodiversity parks on flood plains by removing encroachment</p>		
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ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES

No. (as per tion Plan)	Activity	Implementing agency	Timelin e	Progress in the month Of November 2025	Progress in the month Of December 2025	Progress in the month Of January 2026	% works comple ted	Details of works remaining
(b)	Augmentation and Revamping of existing STP at near Adwaita Ashramam and to increase the capacity of STP so as to treat more sewage generated in the municipality	Aluva Municipality	Dec 2019	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 Adwaitasramam 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 Adwaitasramam 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 Adwaitasramam 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)	Augmentation and Revamping of existing STP at Aluva Market and to	Aluva Municipality	2021	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	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			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.	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 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 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 establishment s/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain and to collect fine based on polluter pay	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 Special Squad has been formed for inspection. Inspection is conducted at the outlets leading to canals, streams, and the Periyar, and fines are imposed.		

	principle							
(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	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.	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	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.	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.	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/-	They will be installed this financial year. Fine details for after last meeting: Fine- Rs.22500/-	They will be installed this financial year. Fine details for after last meeting: Fine- Rs.22500/-		
	Construction of STP and FSTP	Aluva Municipality		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.	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 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. Biomining work was resumed in December and now 50% of the work is completed.	The construction work of the boundary wall of the dumping yard has been completed. The compound wall construction has been completed. Biomining work was resumed in December and now 50% of the work is completed.	100%	
(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. No progress regarding the second unit.	One plant has been established and is operating. No progress regarding the second unit.	100%	

(a)(iv)	Constitution of squads for night surveillance for finding the unauthorized dumping of sewage at NAD wetlands 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.	No progress reported.	No progress reported.	N A	
(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 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.	No progress reported. Informed that the construction of the STP has been decided to be included as a new project in the year 2026.	No progress reported. Informed that the construction of the STP has been decided to be included as a new project in the year 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	Inspection is ongoing. There is currently a possibility of sewage reaching the river from the market. This problem can be solved with the renovation of the market. The PCB, EE informed that a letter was sent to the Municipality regarding the low DO found in the water collected from the Thumbunkal stream and the PutthalamKadavuon the Idamula branch of	No action reported.	No action reported.		

				the Periyar on June 2, and no reply has been received.PCB EE has informed that the DO levels are currently normal.				
(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.	No progress reported.	No progress reported.	N 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/-	No progress reported.	No progress reported.	N A	
	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.	No change.84 cameras have been installed, 2 in each of the 42 wards. Visuals are available.	No change.84 cameras have been installed, 2 in each of the 42 wards. Visuals are available.		
(b)	Identification of sources of sewage discharged to drain near Pathalam bridge and	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	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	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		

	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			19/06/2025. The agency presented the presentation about the STP to the FACT officials. Monthly fine collection is around Rs.1,00,000.	19/06/2025. The agency presented the presentation about the STP to the FACT officials. Monthly fine collection is around Rs.1,00,000.	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 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 atManjummalAarattukadavu, 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 atManjummalAarattukadavu, 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 atManjummalAarattukadavu, 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	Kochi Municipal Corporation	3 months	Squad comprising Engineering & Health has been formed to identify the sources dumping sewage/waste water. 4 squads	Squad comprising Engineering & Health has been formed to identify the sources dumping sewage/waste water. 4 squads	Squad comprising Engineering & Health has been formed to identify the sources dumping sewage/waste water. 4 squads		

	through a rapid study/Study for identification of pollution sources at Edapally thodu			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	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	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	Regular inspections are conducted in establishments near the river.	Regular inspections are conducted in establishments near the river.	Regular inspections are conducted in establishments near the river.		
(b)	Identification of natural drains/thodu reaching river Periyar and cleaning of weeds, grasses etc	Irrigation department	2 years	<p>Minor Irrigation: Cleaned 23 streams in Eloor Municipality. The project "KrishikkopamKalamassery" worth Rs.88 Crore is ongoing. This includes the desilting of 40 streams, 7 culverts, and 2 sluicers. Desilting&deweedingof 25 streams has been completed in Karumalloor region. 80% of the work on 7 culverts has been completed.</p> <p><u>Major Irrigation:</u></p> <p>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</p>	<p><u>Minor Irrigation:</u> No progress from the previous meeting reported.EE opined the local bodies to maintain the streams periodically after the desiltation and deweeding.</p> <p><u>Major Irrigation:</u></p> <p>No progress reported.</p>	<p><u>Minor Irrigation:</u> No progress from the previous meeting reported.EE opined the local bodies to maintain the streams periodically after the desiltation and deweeding.</p> <p><u>Major Irrigation:</u></p> <p>No progress reported.</p>		

				<p>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..</p> <p><u>1. Kuthu thodu</u></p> <p>The desilting work of kuthu thodu has been completed under operation vahini 2025-26.</p>				
(ii)	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). This activity is planned to be carried out three times a year to ensure the river remains clean at all times. 1 st phase is over.	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). This activity is planned to be carried out three times a year to ensure the river remains clean at all times. 1 st phase is over.		
(a)	Maintaining of Minimum flow in river during lean period and	Irrigation department	3 years	As part of the water management, shutters are being operated as required. The draft Shutter Operation Protocol (SOP) was submitted to the	As part of the water management, shutters are being operated as required. The draft Shutter Operation Protocol (SOP), after comments, from KSPCB,	As part of the water management, shutters are being operated as required. The draft Shutter Operation Protocol (SOP), after comments, from KSPCB,		

	periodical operation of Regulators at River in-order to maintain minimum flow.			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 an efficient and systematic manner	was submitted to the Government for approval. Officials of the Pollution Control Board are sharing dissolved oxygen (DO) On review of the DO levels in the official Whatsapp group formed for monitoring the operation of RCBs, it is observed that the DO level near the Pathalam RCB is satisfactory (above 4 mg/Ltr). Hence the shutters are being operated in an efficient and systematic manner.	was submitted to the Government for approval. Officials of the Pollution Control Board are sharing dissolved oxygen (DO) On review of the DO levels in the official Whatsapp group formed for monitoring the operation of RCBs, it is observed that the DO level near the Pathalam RCB is satisfactory (above 4 mg/Ltr). Hence the shutters are being operated in an 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."				
(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 rectification sketch for the drainage system was given to PWD. PWD needs	Letter was issued to PWD for the drainage-rectification work on 05/03/2025. Reminder will be sent. No Progress reported from the meeting held on 01.07.2025.	Letter was issued to PWD for the drainage-rectification work on 05/03/2025. Reminder will be sent. No Progress reported from the meeting held on 01.07.2025.		

				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."				
	Installation of Night vision surveillance cameras at the River Bank side	KSPCB	2020	Surveillance cameras and related equipment have been installed	9 Surveillance cameras and related equipment have been installed.	9 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.	Regular Inspections, including night surveillance are being conducted by ESC, Eloor.	Regular Inspections, including night surveillance are being conducted by ESC, Eloor.	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	Real time water quality monitoring stations has been installed at the upstream & downstream side of pathalam bund.	Real time water quality monitoring stations has been installed at the upstream & downstream side of Pathalambund. Values at both stations are satisfactory.	Real time water quality monitoring stations has been installed at the upstream & downstream side of Pathalambund. Values at both stations are satisfactory.	100	
(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.	Establishments dumping sewage are identified, and fines are collected.	50%	
	Installation of cameras at the waste dumping spots	Kadungallur Panchayath	2020	42 cameras have been installed currently.	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	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. <u>Fine.</u> 40,000- November	Inspections are being conducted, the panchayat is directed to update the details of fines collected recently. if any. <u>Fine.</u> 40,000- November		

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 cameras 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. Implementing authority is KMRL.	56 cameras have been installed. 2 cameras 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. Implementing authority is KMRL.		
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LONG TERM MEASURES

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month Of November2025	Progress in the month Of December2025	Progress in the month Of January 2026	% 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 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	No progress reported. Reminders will be sent to the District Collector and the Land Records Tahsildar, requesting them to take necessary steps to complete the demarcation work at the earliest.	No progress reported. Reminders will be sent to the District Collector and the Land Records Tahsildar, requesting them to take necessary steps to complete the demarcation work at the earliest.		

				<p>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 & 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</p>				
C(i)	Fencing of the river banks along the stretches of waste disposal (Edamula stretch)	Cochin Municipal Corporation	1-2 years	<p>The fencing work of the Aryanpadam stream has been presented in the budget. Permission has been received for only 40 cameras. They are</p>	<p>The fencing work of the Aryanpadam stream has been presented in the budget. Permission has been received for only 40 cameras. They are</p>	<p>The fencing work of the Aryanpadam stream has been presented in the budget. Permission has been received for only 40 cameras. They are</p>		

C(ii)	Beautification of the river stretches (Edamula stretch)	Cochin Municipal Corporation	1-2 years	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.	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.	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.		
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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					

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 KADALUNDI, MALAPPURAM

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		STP Repairing project DPC approved and sent to TS
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		Action plan prepared
5	Chief Secretaries may set up appropriate monitoring mechanism at state level <ul style="list-style-type: none"> ● Specifying accountability of nodal authorities not below the Secretary level ● Chief Secretaries may have an accountable person attached in their office for this purpose. 		
	<ul style="list-style-type: none"> ● Monitoring at State level must take place 		
6	Progress report may be furnished by the State/UTs to <ul style="list-style-type: none"> ● Secretary, Ministry of Jal Shakti ● Member Secretary, CPCB 		
6.1	Progress Report may be comprised of details along with completion timelines on: <ol style="list-style-type: none"> (I) Identification of polluting sources including drains contributing to river 		I) Already screen net placed to the both side of the Bridge and Periodic Inspection & Drainage Cleaning Doing

<p>pollution and action as per NGT order on in-situ treatment.</p> <p>(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>(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</p> <p>(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;</p> <p>(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.</p> <p>(vii) Ground water regulation</p> <p>(viii) Adopting good irrigation practices,</p>		<p>Action plan prepared through KWA</p> <p>NA</p> <p>Source level treatment units 8000 ring compost & 100 Biobin are distributed. Dry waste collecting and processing by shredding & Bailing Machine through HKS Done. Bio medical waste collection through IMAGE.</p> <p>NA</p> <p>Inspection activities doing</p> <p>NA</p> <p>NA</p> <p>NA</p>
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(ix) Protection and management of food plain Zones (FPZ),	NA
(x) Rain water harvesting,	NA
(xi) Maintaining minimum Environmental flow of river	NA
(xii) Plantation on both sides of the river	
(xiii) Setting up biodiversity parks on flood plains by removing encroachment	

ACTION PLAN FOR RIVER KADALUNDI, MALAPPURAM, KERALA

1. 2. Malappuram Municipality - Short Term Solid & Liquid Waste Management Action Plan								
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	% of works completed	Details of works remaining
1.1	Slaughter house and Poultry house	Malappuram Municipality	July 2020	Land occupied	Land occupied	Land occupied	NA	NA
1.2	Valiyathodu Cleaning - 8 Km length	Malappuram Municipality	Completed	Cleaned	Cleaned	Cleaned	50%	Cleaned
1.3	Installation of	Malappuram	December	Inspected	Inspected	Inspected	100%	NA

	screening net in the Valiyathode	Municipality	2019					
1.4	Identification of polluting points in Kadalundi river & awareness campaign - River walk(puzha nadatham – 15 km length)	Malappuram Municipality	Completed			Inspection' & Cleaning activities doing	100 %	NA
1.5	Sanitation facility and treatment of waste water in the markets - Treatment plant	Malappuram Municipality	Completed	New Building Construction Process	New Building Construction Process		50%	New Building Construction Process
1.6	The discharge of waste water from the surrounding houses to the Valiyathodu - Blocking of discharge of liquid waste	Malappuram Municipality	Completed	100%	100%	100%	100%	
1.7	Identification of illegal outlets into storm water drains and fine imposed on such units.	Malappuram Municipality	Ongoing	Ongoing	Ongoing	Inspection continuing	Inspection continuing & action taken	NA
1.8	Biodegradable waste Bio bins – 176 Bucket compost – 269	Malappuram Municipality	March 2020	March 2020 March 2020	Completed	Completed	Completed	100%

	Thumboormuzhi Aerobic bins - 4		March 2020	March 2020				
	Biogas plant -55		March 2020	March 2020	Completed	Completed	Completed	100%
			March 2020		Completed	Completed		100%
1.9	Non biodegradable waste MCF Plastic shredding and Bailing Echo Kiosk	Malappuram Municipality	March 2020 Completed March 2020				Completed	100%
1.10	Identification and monitoring of illegal activities CC tv Network installation	Malappuram Municipality	March 2020				Completed	Nil

2.Kerala State Pollution Control Board

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
2.1	River water quality Monitoring- Thirurangadi, Hajiyarpally National Water Quality Programme(NWMP)	KSPCB	Ongoing; Monthly frequenc			Ongoing; Monthly frequency		
2.2	River water quality Monitoring - Thirurangadi, Kooriyad, Manikut, Hajiyarpally, Anakkayam, Oravambrum - State Water monitoring programme	KSPCB	Ongoing; Seasonal - Pre - monsoon, monsoon, post - monsoon			Ongoing; Monthly frequency		

	(SWMP)							
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		

3.Ground Water Department

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
3.1.	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical	Ground water Department		Groundwater extraction for industrial purpose is restricted in the semi critical blocks.Only limited extraction (upto 2500 LPD) is allowed.	Groundwater extraction for industrial purpose is restricted in the semi critical blocks.Only limited extraction (upto 2500 LPD) is allowed.	Groundwater extraction for industrial purpose is restricted in the semi critical blocks.Only limited extraction (upto 2500 LPD) is allowed.	Department accepts applications which needs limited extraction of groundwater only from semi critical blocks. % cannot be mentioned.	

	<p>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%)</p>							
3.2	Ground water recharging / rain water harvesting	Ground water Department				Malappuram-1 recharge pit, 10 OW		

	<p>(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.)</p>					<p>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</p>		
3.3	<p>Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps</p> <p>(Earlier status : Groundwater Department has 6 observation dug wells and 14 bore wells in the river stretch. (report attached) (Map No: 7 attached))</p>	Ground water Department		Water quality analysis from observation wells are carrying out four times in every year.	Water quality analysis from observation wells are carrying out four times in every year.	Water quality analysis from observation wells are carrying out four times in every year.		

3.4	<p>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.)</p>	<p>Ground water Department</p>		<p>For irrigation purposes,Pumping test in their well is done and safe yield is calculated and will inform the applicant.</p>	<p>For irrigation purposes,Pumping test in their well is done and safe yield is calculated and will inform the applicant.</p>	<p>For irrigation purposes,Pumping test in their well is done and safe yield is calculated and will inform the applicant.</p>		
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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 TIRUR, MALAPPURAM

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		STP Repairing project DPC approved and sent to TS
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		Action plan prepared
5	Chief Secretaries may set up appropriate monitoring mechanism at state level <ul style="list-style-type: none">• Specifying accountability of nodal authorities not below the Secretary level• Chief Secretaries may have an accountable person attached in their office for this purpose.		
	<ul style="list-style-type: none">• Monitoring at State level must take place		
6	Progress report may be furnished by the State/UTs to <ul style="list-style-type: none">• Secretary, Ministry of Jal Shakti• Member Secretary, CPCB		Last updated report submitted was on December 31,2025
6.	Progress Report may be comprised of details		(i)Identified 17 drains out of which 9 were additionally

1	<p>along with completion timelines on:</p> <p>I Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.</p> <p>II <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>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</p> <p>(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;</p> <p>(vi) Preventing dumping of waste and scientific</p>		<p>identified on 11.07.2019</p> <p>(ii) Tirur Fish Market STP - 45 KLD- working condition. Inspection was conducted by pollution control board and repairing works has been done as per the suggestions of pollution control board .laboratory analysis has been done and parameters found to be within limits</p> <p>(ii) Tirur municipal Bus Stand STP-50 KLD –Working Condition. Inspection was conducted by pollution control board and STP sample collected and laboratory analysis has been done and parameters found to be within limits.</p> <p>iii) NIL</p> <p>(iv) De centralized treatment facilities, Disposal using sanitary landfills, composting operations, MRF, MCF etc. Slaughter house- completed civil work. Electrical installation works started.</p> <p>(v) Attached as Annexure II-Analysis report during the month of December-2025</p> <p>BMW are being disposed scientifically through</p>
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<p>waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.</p> <p>(vii)Ground water regulation</p> <p>(viii) Adopting good irrigation practices,</p> <p>(ix) Protection and management of food plain Zones (FPZ),</p> <p>(x) Rain water harvesting,</p> <p>(xi)Maintaining minimum Environmental flow of river</p> <p>(xii) Plantation on both sides of the river</p> <p>(xiii) Setting up biodiversity parks on flood plains by removing encroachment</p>		<p>IMAGE. Municipality have MRF, MCF facilities</p> <p>(vii)NA</p> <p>viii)Complying</p> <p>(ix)NA</p> <p>(x) Complying</p> <p>(xi) Complying</p> <p>(xii) NA</p> <p>(xiii) Reported that encroachment survey is completed and now the process of laying survey stones is in progress.</p>
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ACTION PLAN FOR RIVER TIRUR, KERALA

1	IRRIGATION DEPARTMENT							
No.	Activity	Implementing agency	Time line	Progress in the month of October 2025	Progress in the month of	Progress in the month of December 2025	% works completed	Details of works remaining

					November 2025			
1.1.1	Strengthening the right side bund of Tirur-Ponnani puzha at Porur, ward no.1 Tirur Municipality	Irrigation Department	6 Months	Work Completed	Work Completed	Work Completed	Work Completed. Bill Paid (Rs 2984168/- including GST)	Remarks-These two works are arranged as single work named as "General-National Green Tribunal-Rejuvenation of polluted rivers-Tirur-Ponnanippuzha-General Civil work"amounting Rs 30.10 L . Work Completed. Bill Paid (Rs 2984168/- including GST)
1.1.2	Cleaning and development of old Ponnani thodu at Thazhepalam	Irrigation Department	6 Months	Work Completed	Work Completed	Work Completed	100%	
1.1.3	Repair and Rehabilitation of Koottayi Regulator	Irrigation Department	18 Months	0%	0%	0%	8%	Cracks on girders and settlement of 4 piers towards right bank has seen on

	<p>cum Bridge across Thirur- Ponnani Puzha in Mangalam Grama panchayatin Malappuram Dist</p>						<p>18/11/2023. So the work can be continued only after addressing these issues. 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 IDRIB 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-</p>
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								<p>2024 and suggested for hydro graphic survey at the site. Hydro graphic survey wing has completed the survey work for an amount of 1.34662/- lakhs . The hydrographic chart,Reduced level chart and Cad files submitted by Hydro graphic survey wing are submitted to CE I&A ,Tvm. Technical committee meeting conducted on 10/12/2024 at IDRRB ,TVMoffice .Based on the meeting minutes of the Technical Expert Committee, DPR of 18.10 crores of the recast estimate has been</p>
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TIRUR MUNICIPALITY – SHORT TERM ACTION PLAN

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
1.2.1	Provide septic tank for nearest houses	Tirur Municipality	Dec 2019	Completed	Completed	Completed	100%	Completed
1.2.2	Establishment of Solid waste Treatment Plant ThumboorMozhi Model Aerobic Bin	Tirur Municipality	March 2020	Completed	Completed	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	Completed	Completed	100%	Completed

1.2.4	Slaughtering House	Tirur Municipality	December 2020	Work ongoing	Work ongoing	Renovation Work ongoing	80%	Work ongoing
1.2.5	Fencing on Bridgeside Thalakkadathur Bridge	Tirur Municipality	December 2020	Completed	Completed	Completed	100%	Completed
1.2.6	Installation of CCTV Camera near the river Bank Thalakkadathur Bridge	Tirur Municipality	May 2020	Ongoing	Tender Stage	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	Completed	Completed	100%	100%
1.2.8	Renovation of Effluent treatment plant at fish Market AMC Granted ETP with Aeorobic System	Tirur Municipality Tirur Municipality	June 2019	Completed	Completed	Completed	100%	Completed
1.2.9	Setting up of STP at Private Bus stand	Tirur Municipality	June 2020	Completed	Completed	Completed	100%	Completed
1.2.10	Setting up of a new	Tirur Municipality	June 2020	Completed	Completed	Completed	100%	Completed

	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							
1.2.11	Identification of illegal outlets into storm water drains and fine shall be imposed on such units	Tirur Municipality		Ongoing	Ongoing	Ongoing		
3	Cheriyamundam Grama panchayat							
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
1.3.1	Fencing on bridge side Thalakkadatur	Cheriyamundam Grama panchayat	March 2020			completed		
	4. Kerala State Pollution Control Board							

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
1.4.1	River water quality Monitoring- Thalakkadathur National Water Quality Programme(NWMP)	KSPCB	Ongoing; Monthly frequency			Ongoing; Monthly frequency		
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		

5.Ground Water Department

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
1.5.1.	<p>Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks</p> <p>(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%)</p>	Ground water Department		<p>Groundwater extaction for industrial purpose is restricted in the semi crical blocks.Only limited extaction (upto 2500 LPD) is allowed. Awareness programmes are conducting.(5 numbers in every year)</p>	<p>Groundwater extaction for industrial purpose is restricted in the semi crical blocks.Only limited extaction (upto 2500 LPD) is allowed. Awareness programmes are conducting.(5 numbers in every year)</p>	<p>Groundwater extaction for industrial purpose is restricted in the semi crical blocks.Only limited extaction (upto 2500 LPD) is allowed. Awareness programmes are conducting.(5 numbers in every year)</p>		

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	Kuttippuram-4 OW Recharge Tirur-1 recharge pit	Kuttippuram-4 OW Recharge Tirur-1 recharge pit		
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.	Water quality analysis from observation wells are carrying out four times in every year.	Water quality analysis from observation wells are carrying out four times in every year.		
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.)			For irrigation purposes,Pumping test in their well is done and safe yield is calculated and will inform the applicant.	For irrigation purposes,Pumping test in their well is done and safe yield is calculated and will inform the applicant.	For irrigation purposes,Pumping test in their well is done and safe yield is calculated and will inform the applicant.		

6. ACTION PLAN BY VARIOUS GRAMA PANCHAYATHs- Thalakkad, Vettom, Mangalam

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
1.6.1	Protection of Thirur Ponnani River	Thalakkad grama panchayath hand over fund to District Panchayat	31.03.2020			Completed		
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		
1.6.4	Haritha Keralam Thirur-Ponnani puzha protection	Mangalam grama panchayath Nirmithi Kendra, Kozhikkodu	31.03.2020			Completed		

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.673/2018 dated 6/12/2018) For

the month of JANUARY 2026– 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 <ul style="list-style-type: none">● Specifying accountability of nodal authorities not below the secretary level● Chief secretaries may have an accountable Person attached in their office for this purpose		
	<ul style="list-style-type: none">● Monitoring at the state level must take place		

5	<p>Progress report may be furnished by the state/UTs to</p> <ul style="list-style-type: none"> ● Secretary,ministry of Jal Shakti ● Member secretary,CPCB 		
5.1	<p>Progress report may be comprised of details along with completion timeline on:</p> <p>(i) Identification of polluting source including drains contributing to river pollution and action as per NGT order on in situ treatment.</p> <p>(ii) <u>status of STPs,I&D and sewage networks</u> Details of Existing Infrastructure,Gap Analysis,Proposed along with completion timeline</p> <p>(iii) <u>status of CETPs</u></p> <p>Details of existing CETP and ETP infrastructure,Gap analysis,proposed along with completion timeline,No.of industries and complying status.</p> <p>(iv) <u>status of solid waste management&details of processing facilities</u></p> <p>Details of existing infrastructure,Gap analysis proposed along with completion timeline</p> <p>(v) Latest water quality of polluted river,its tributaries,drains with flow details and ground water quality in the catchment of polluted river;</p> <p>(vi) preventing dumping of waste and scientific waste management including bio-medical waste plastic waste and decentralizing waste processing,including waste</p>		

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

No.	Activity	Implementing agency	Time line	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	% 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 Kothi bridge)&(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 NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	% 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 cost16.67Lakhs).						
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 plasticWaste 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 NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	%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 NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	% 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 NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	% 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

No	Activity	Implementing Agency	Timeline	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	% 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 17 %			17%	
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 providing 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 NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	% 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 NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	% 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 NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	% 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 NOVEMBER 2025	Progress in the month of DECEMBER 2025	Progress in the month of JANUARY 2026	% 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 17 %	17%	
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

