

KARAMANA

Short termplan							
Maintenance and de-bottlenecking of existing seweragenetwork							
No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
2.1.1	Pumping lines from the terminal pumping stations namely Kuriyathi, Pattoor, Kannammoola and Enchakkal pumping stations are to be connected directly to STP at Muttathara	Kerala Water Authority	May 2019			100	Work Completed. DER for pumping main from Pattoor, Kannamoola& Enchakkal under preparation
	Kuriyathi pumping line						DER for pumping main from Pattoor, Kannamoola & Enchakkal under preparation
2.1.2	Rehabilitation/upgradation of Thaliyal and Aranoor Sewerage Pump house by rehabilitation of existing well, construction of new well and grit chamber, installation of new pump sets	Kerala Water Authority	May 2020			100	Work Completed.
2.1.3	5 MLD sewage treatment plant at Medical College	Kerala Water Authority	May 2020			100	Work Completed.
2.1.4	Installation of adequate pumps in Mudavanmughal and Enchakkal pumping stations	Kerala Water Authority	March 2020			100	Work Completed.
2.1.5	DG sets in all lift and pumping stations – Mudavanmughal, Aranoor, Thaliyal, Kuriyathi, Pattoor, Kannammola, Pattom, Murinjapalam and Enchakkal	Kerala Water Authority	May 2020			100	Work Completed.
2.1.6	Reconnect sewer at Rajaji Nagar, stop outflow of sewage into 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			100	Work Completed.

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No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
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			100	Work Completed.
2.1.8	Divert the sewer line from the School compound of Government Karamana High School	Kerala Water Authority	Awarded			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	0%	0%	100%	Works completed - 75 No (Rs. 15.41 cr) AMRUT - 44, State Plan - 28 MLA ADF/SDF - Completed
	Total works in progress (76No.) Works in tendering (2No.)					Dropped – 2 No. (Rs. 1.52cr.) State plan-2	Two works dropped due to not getting offers on repeated tenders and expiry of AS
2.1.10	Extension of sewer network wherever technically feasible in new areas of existing blocks	Kerala Water Authority	May 2020	0%	0%	99.3	Works completed - 21 No (Rs. 17.21 cr) AMRUT- 12, State Plan- 7 Nos, 4 Nos ongoing MLA ADF/SDF-1
		In progress/ Ongoing (4 No)					

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No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
	Tendering/ To be arranged (1No.) Land acquisition -1 In progress-3			To be arranged	To be arranged	Land acquisition in progress - 1 Nos	Land acquisition process for all works completed and land handed over to KWA and AS obtained for arranging the work under State Plan 22-23 and one work arranged and one tendered. (Details shown in excel sheet attached). Direction from head office to cancel one work and recast the estimate and submit for new AS. Same has been approved in State Plan 2022-23 and tendered. Agreement Executed and pipe supplied and work in progress - 48% completed. Killi River Crossing permission obtained For another work In order to, lay of DI pipe across the box culvert, Sanction for the same is obtained from the Irrigation Department. Box culvert work in progress. Overall 83% work completed. For another work 26% completed. Date of completion 30.09.2024
2.1.11	Procurement of sewercleaning machines and equipment maintenance	Kerala Water Authority	Mar2020	0%	0%	100	work completed

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No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining	
2.1.11	Procurement of sewer cleaning machines and equipment maintenance	Kerala Water Authority	Mar2020	0%	0%	100	work completed	
Solid Waste Management Action Plan								
Sl.No	Activity	Implementing Agency	Unit			Progress in the month	% works completed	Details of works remaining
2.2.1	Slaughter house and poultry waste	Thiruvananthapuram Corporation	Rendering plant				93	<p>Slaughter House</p> <p>Slaughter house kunnukuzhy- Work started for construction of retaining wall, work ongoing for construction of security cabin and visitor's lounge. Security cabin, roof slab casting completed, visitors lounge, structure completed, roof slab casting on progress. Work under progress. It will be completed on December 2024</p> <p>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.</p>
2.2.2	Sanitation facility and treatment of waste water in the markets of Pangode, Kumarichanda		Treatment plant (2 Nos) Portable aerobic bins (4 Nos)				100	<p>Kumarichanda: Market Renovation completed. Pilot project implemented for treatment of wastewater.</p> <p>Pangode: DPR submitted by the agency. Forwarded for getting technical sanction.</p>

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No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
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. Cheriyanmuttam – Poonthura 4. Beemapally Compound 5. Tsunami Colony 6. Mother Theresa Colony 7. Kumari Chantha 8. Poonthura Market 9. Moonnattumukku bridge 10. Ambalathara – Nilama 11. Fishermen Flat – Muttathara 12. Perunalli Market road 13. Poundkadavu old market 14. Market behind Attipra zonal office 15. Tsunami Colony near 110KV tower (Poundkadavu) 16. Near Valiyavila Veli St. Thomas Church (Poundkadavu) 17. Near Kamaleshwaram HSS 18. Valiyaveetil Residence association 19. Near Arannoor Govt Quarters 20. Kunjalumoodu Junction 21. Kumarapuram Thamarabhagam (near comfort station) 22. Nacr Kannammoola Bridge 23. Mannanthala Market 24. Santhi Nagar Residents association 25. Alanthara Kattayil 26. Ulloor Market 27. Museum RKV Road 28. New Nelanthe Road 			50	<p>Only 13 Locations work completed out of 28Nos.</p> <p>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</p>

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No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining	
2.2.4	The discharge of waste water from the surrounding houses to the pond at Jagathy is to be stopped	Thiruvananthapuram Corporation	Pond de-silting Issued notices to the household Project is prepared for de-silting the pond					meeting was conducted on 30-07-21, convened by the Public Work Standing Committee Chairperson with KWA Officials, Tvpmm Corporation officials and councillors ward to discuss this concern. 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.
2.2.5	Around 155 Houses in Kurukuvilakom, 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.		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			2431810 lakhs fine collected from 2019 to till date		451930 fine collected from April 2024 to till
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 13523 bins were distributed	82	Installed 65,080 bins in total.

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No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining	
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	65	Total 563 bins installed in 57 location.

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No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining	
2.2.8	Biodegradable waste	Thiruvananthapuram Corporation	Community biogas (No. 12)			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.	65	27 nos installed, Only 2 in working condition
2.2.9			Organic Waste Converter (No. 1)			Dropped		Dropped
2.2.10			Portable biogas (No. 200)			Dropped		Dropped
2.2.11			Portable aero bins (No.100)			28 more units installed. Total 125 units installed - project completed	100	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	78	Installed 350 units
2.2.13			Segregation bins (No. 1,00,000)			Dropped		Dropped.

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No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
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.	100 Work completed
2.2.15			Plastic Recycling unit (No. 1)			Site not yet identified. Project dropped	Site not yet identified. Project dropped
2.2.16			Mobile MRF (No. 5)			Project dropped	Dropped
2.2.17			Electronic Weigh bridge (No. 1)			Project dropped	Dropped
2.2.18			Solar electrical cart (No. 25)			Work completed.	100 Work completed
2.2.19			Swaps shops (No. 4)			Work completed. Revised estimate approved by council.	98 Work completed. Revised estimate approved issued soon
2.2.20			PET bottle crushing (No. 15)			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			Project dropped	Project dropped
2.2.23		Thiruvananthapuram Corporation	Urban Gardening			Project dropped	Project dropped
2.2.24		Thiruvananthapuram Corporation	Upgradation of present facilities			Completed.	100 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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No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining		
2.2.27	Prevent entry of storm water into sewer line along with KWA	Thiruvananthapuram Corporation	KWA is authorized to prepare and implement proper sewerage lines under Amrut scheme			Close monitoring is done by health Squad and all Health Inspectors are directed to issue notice and prosecution.		Close monitoring is done by health Squad.	
2.2.28	Take steps to prevent the solid wastes in sewer line as reported by KWA	Thiruvananthapuram Corporation	Squad and Fines Special squad is formed at Corporation level. Health Inspectors are authorized for regularly monitoring and preventing the waste discharge			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 Corporation collected an amount of Rs 25024000/- as fine from 01.01.2022.		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.3786881/- as fine from April 2024 to November 2024	
Monitoring									
	Activity	Implementing agency	Time line						
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.						
2. Long termPlan									
Seweragenetwork									
	Long term measures proposed	Implementing agency	Amount Required (Rs. in Crore)	Progress in the month of April 2025		Progress in the month of May 2025	% works completed	Details of works remaining	
3.1.1	Extension of sewerage system to Block F to G coastal belt	Kerala Water Authority	200					Consultant appointed for preparing Detailed Project Report for uncovered wards of the Thiruvananthapuram Corporation and Rehabilitation of existing system was terminated from the contract due to breach of contract by the firm vide Proceedings	
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	

KARAMANA**Short term plan****Maintenance and de-bottlenecking of existing sewerage network**

No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
3.1.3	Extension of sewerage system to Newly added areas of corporation viz,	Kerala Water Authority	300				Circle, Kerala Water Authority Thiruvananthapuram dated 31.05.2022 to arrange the balance work at their risk and cost. As directed in the Chief Secretary, GoK's meeting dated 21/06/2022 to do the Preparation of DPRs internally, action taken accordingly. Meanwhile the terminated firm M/s REPL filed a complaint against KWA in the Hon'ble High court of Kerala (WP(C) No 26031 of the year 2022) and obtained a stay
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 to E	Kerala Water Authority	100				
3.1.6	Procurements of equipments for maintenance sewerage system	Kerala Water Authority	10				

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No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
3.1.7	Additional STP requirement	Kerala Water Authority	60				<p>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 tender was cancelled and action is being taken to retender the work. In case of Cluster zone I&V also the two bidders who quoted the tender were disqualified and action is being taken to recast the estimate of these two UIDF works. Cluster 3, which was originally consisting of Thiruvallam, Poonkulam and Vellar is the second in the priority list and was taken up. This Cluster is then modified by adding more wards and is divided into 3 zones. Zone 1 of cluster 3 is consisting of Puthenpally and Part of Muttathara (until STP) was taken up on priority based on the demand of Thiruvananthapuram Corporation. DPR of Cluster 3 Zone 1, Puthanpalli ward for 1.5 MLD confirmation of land not yet received. DPR of cluster X comprising of wards Shangumugham, Vettucaud, Vallakadavu, Beemapalli (part), Beemapalli East (part), Valiyathura and Kadakampally is under preparation. DPR for Cluster 3 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 Punnakkamughal wards) is prepared and submitted on</p>

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No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining	
3.1.8	Total Amount required	Kerala Water Authority	5000CR					
Solid wastemanagement								
	Long term measures proposed by Thiruvananthapuram Corporation	Implementing agency	Time line			% works completed	Details of works remaining	
3.2.1	Acquire 58 acres of land and rehabilitate 8150 families from the banks of River	Thiruvananthapuram Corporation	5 years			Project Dropped	Dropped	
De-silting and development								
No.	Activity	Implementing agency	Timeline			% works completed	Details of works remaining	
3.3.1	Development package for Parvathy Puthanar	Irrigation department Included in KIFB by KWIL includes cleaning of canal	3 years				Phase I (First half) removal of water hyacinth completed Veli to Kadinamkulam Kayal (Ch 16.00 to Ch27.00). Executed by Inland Navigation . Aakkulam to Monnattumukku cleaning works 100% completed- by KWIL - for an amount of 45 Lakhs (3 Months) Now department work is started for clearing.	
3.3.2	De-silting and development of Amayizhanchan Thodu	Irrigation Department	1.5 years			100	On going	
3.3.3	Improvements to Thekkenekara canal and de-silting-	Irrigation Department	1 year			20	Flood mitigation work completed	
3.3.4	Karimadam tank improvements, de-silting sheet piling/under preparation and providing fencing	Irrigation Department	1.5 years			20	Flood mitigation works ongoing	
3.3.5	Development of Karamana basin	Irrigation Department	1.5 years				Desiltation of river completed. E-flow statement is submitted	

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

ACTION PLAN FOR RIVER KARAMANA, KERALA - Sept 2025

1. Short Term Plan

Maintenance and de-bottle necking of existing sewerage network

No.	Activity	Implementing agency	Time line	Progress in the month of May2025	Progress in the month of June 2025	Progress in the month of July 2025	% works completed	Details of works remaining
2.1.1	Pumping lines from the terminal pumping stations namely Kuriyathi, Pattoor, Kannammoola and Enchakkal pumping stations are to be connected directly to STP at Muttathara	Kerala Water Authority	May 2019				100%	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				100%	Completed
						100%	Work completed	

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

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

	<p>arranged (1No.) Land acquisition -1 In progress-3</p>						<p>progress-1Nos</p>	<p>completed and land handed over to KWA and LA for the work of laying sewer trunk main from Murinjapalam towardsKannammoola - 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. Killi River Crossing permission obtained. River crossing pipe laying delayed due to rain and restarted the same on 29.01.2025. Work58% completed. Four pile cap under construction. 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 at risk and cost. But, now the contractor restarted the work and HDD machine was mobilized at the site.</p> <p>Trial pits from different agencies to find out cables, ducts been verified. Trial HDD done. Work will be completed within 30 days.</p>
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2.1.11	Procurement of sewer cleaning machines and equipment maintenance	Kerala Water Authority	Mar 2020	0%	0%	0%	100%	Work Completed.
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1. Long Term Works

Sl No.	Long term measures proposed	Implementing agency	Amount Required (Rs.in Crore)	Time line	Progress in the month of January	Progress in the month of February	% works completed	Details of works remaining
3.1.1	Extension of sewerage system to Block F to G coastal belt	Kerala Water Authority		Three years				Consultant appointed for preparing Detailed Project Report for uncovered wards of the Thiruvananthapuram Corporation and Rehabilitation of the existing system was terminated from the contract due to breach of contract by the firm vide Proceedings No.KWA/SE/SEW/EOI/REPL/338/2020-2021 of the Superintending Engineer, Sewerage Circle, Kerala Water Authority Thiruvananthapuram dated 31.05.2022 to arrange the balance work at their risk and cost. As directed in the Chief Secretary, GoK's meeting dated 21/06/2022 to
3.1.2	Extension of sewerage system to Block H to R							
3.1.3	Extension of sewerage system to newly added areas of corporation viz,							
3.1.4	Providing sewerage system in Block A to E							
3.1.5	Rehabilitation of existing Network and pump house in block A to E							

3.1.6	Procurement of equipment for maintenance of sewerage system.							do the Preparation of DPRs internally, action taken accordingly. Meanwhile the terminated firm M/s REPL filed a complaint against KWA in the Hon'ble High court of Kerala (WP(C) No 26031 of the year 2022) and obtained a stay against KWA at first up to 22.08.22 which is then got extended up to 14.09.22 against taking any coercive actions. DPR preparation of sewerage system to the uncovered areas of TMC is now being carried out internally by KWA. The total wards were divided in to 10 clusters. Cluster 1 comprises of 5 wards - Attukal, Kalady, Kallipankulam, Ambalathara and kamaleswaram wards – The DPR for Cluster 1 was submitted on 13/10/2022 for AS. Later as per the direction of Secretary Thiruvananthapuram Corporation the DPR for Cluster 1 was revised including Zone 1&5 for Rs.91.00Cr and Zone 3&4 for Rs.66.50Cr and was submitted to Corporation on 28.12.2023 for getting AS under UIDF. AS received for thesetwo works and workstendered. As the two bidders who quoted for the Tender of Cluster 1-(ZONE-III Kalady Part) and(ZONE-IV - Attukal Part) was disqualified the tender was cancelled and retendered the work. Two bidders participated in the tender and they failed in prequalification process, hence work retendered. In case of Cluster I zone I&V,also the two bidders who quoted the tender were disqualified. Estimate recasted and TS issued. Corporation directed to separate Zone I and
3.1.7	Additional STP requirement							

							<p>tender the work, based on this action is being taken to tender 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 Sewerage network with 5 year O&M and without centage submitted to Corporation under AMRUT2.0 on 11/1/23. The DPR of Cluster 3 Zone 2 and Zone 3 is prepared and submitted on 21.01.2023.</p> <p>The DPR for cluster 2 submitted on 27.02.2023 and is verified and kept in Shelf. The DPR for cluster 4 (Thirumala Thrikkannapuram and Punnakkamughal wards) is prepared and submitted on 30.03.2023 with pvt land. And assuggested for 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 being taken to revise the estimate accordingly. DPR for Cluster IX (priority wards (Vizhinjam and Harbour area) completed and submitted on 29.09.2023. Land for STP identified and the confirmation of land not yet received. DPR of cluster X comprising of wards Shangumugham,</p>
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								Vettucaud, Vallakadavu , Beemapalli (part), Beemapalli East (part), Valiyathura and Kadakampally is under preparation. DPR for Cluster 3 Zone 1&3 estimate revised and submitted the same to Corporation for getting AS under UIDF.
	Total Amount		5000CR					

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

Chief Engineer(Sewerage, PPD & WASCON)

WORKS UNDERTAKEN AS PART OF ACTION PLAN**STATE PLAN 2021-22**

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

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

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

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

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

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

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

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

STATE PLAN 2022-23

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

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

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

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

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

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

STATE PLAN 2023-24

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

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

14	State Plan 2023-24-TSS- Replacing of old and damaged 100&150mm SW line with 200mm SW sewer line from Vazhuthacadu Mohanan road towards CSM Nagar Vazhuthacadu ward	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Completed
15	State Plan 2023-24-TSS- Reconstruction of old dilapidate brick manhole with RCC and raising of manhole covers in LEFT and WEST R C area under Sewerage Section ,Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2025	Work ongoing
16	State Plan 2023 - 24 - TSS - Providing and laying 200 mm SW sewer line at Subramoniam lane near Edapazhinji	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Completed
17	State Plan 2023-24-TSS- Replacing of old and damaged 100 mm sewer line .with 200 SW sewer line in Kowdiar SS Kovil F lane	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
18	State Plan 2023-24-TSS- Providing and laying 250mm SW sewer line from Paloor lane House no.KPRA A55(2) to Koonamkulam pond near transformer	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Work ongoing
19	State Plan 2023-24-TSS- Replacing of old and damaged 150&200 mm SW sewer line with 300mm SW sewer line from Artech Rama Appartment through Panicker's lane F lane	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
20	State Plan 2023-24-TSS- Providing CI manhole cover , raising of cover slab in road level and levelling the undulated portion of Kedaram lane and branch road of Pattom ward	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Completed
21	State Plan 2023-24-TSS- Replacing of old and damaged 100 &150 mm SW sewer line with 200 SW sewer line in Kanaka Nager Residence area	Sewerage Division, KWA, Trivandrum	State Plan	31.06.2025	Work ongoing

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

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

35	State Plan 2023-24-TSS- Increasing capacity of SW pipe from Garudan Junction to Market Junction in Sreevaraham Ward including Payikkattu lane, Panamoodu lane, Ullattu lane. Adikkathara lane (SKRA-1 to 107) & Kilikkodu Lane	Sewerage Division, KWA, Trivandrum	State Plan	31-03-2025	Work ongoing
36	State Plan 2023-24-TSS - Rehabilitation of damaged sewer line and reconstruction of old dilapidated brick manholes in Fort & Enchakkal area	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Work ongoing
37	State Plan 2023-24-TSS Plan 30- 2023 - 24 - TSS - Rehabilitation of existing damaged 100 mm CI pipe with 160 mm 10 kg/cm ² PVC pipe. construction of new manholes at Thaliyal Residential Association from TRWA-413 to TRWA-419 & supply and laying 250 mm SW pipe in Harisree Residential Association (HSRA-D-47 to KSRA-D-43) & TR WA.- 200- TRWA-235 at Kalady	Sewerage Division, KWA, Trivandrum	State Plan	30-06-2025	Work ongoing
38	State Plan 2023-24-TSS - Rehabilitation of existing damaged 100mm pvc pipe to 200mm SW pipe at Nandavanam in Valiasala ward from electric post no T/MK/15 to TC/23/90,91, electric post no T/MK/12 to electric post no T/MK/9, and electric post no T/MK/8 to electric post no T/MK/6	Sewerage Division, KWA, Trivandrum	State Plan	30-04-2025	Agreement Executed
39	State Plan 2023-24-TSS- Rehabilitation of sewer main from Sivanagar to Pump house road across Killipalam Attakulangara Bypass	Sewerage Division, KWA, Trivandrum	State Plan	Dropped	Dropped

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

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

STATE PLAN 2024-25

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

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

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

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

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

39	State Plan-2023 -2024 - NGT Rectification of breakage line towards Pattoor Pump House from narrow lane between Indian Veneer Company and canal(Amayizhanjan thodu) near Pattoor junction-under Sewerage section no II, Kuriathy-Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan		Work ongoing
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STATE PLAN 2025-26

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

8	State plan - 2025-26- TSS - Construction of new well and connected work at Kannamoola Pump House.	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
9	State Plan-2025 - 26 -TSS - Construction of new well-and connected work at Plamoodu pump house-Sewerage Work- Construction of new well and allied structures-General Civil Work	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
10	State Plan-2025 - 26 - Providing and laying new sewer line from the existing M H at Njaramoodu towards Hill top and branch line starting from Edapazhinji Sastha Nagar-Extension of sewer line .-Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
11	State Plan-2025 - 26 - TSS - C Block - Providing new sewer line from Kallumoodu Gardens to Pulli lane with railway crossing	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
12	State Plan-2025-2026 - Rehabilitation of existing sewer main at Kalavihar lane, Kunnukuzhyunder Sewerage section no: II, Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan	Tender evaluation
13	State Plan-State Plan-2025 - 2026 - TSS- Reconstruction of old dilapidated brick man holes, construction of new sewerage man holes, raising of man hole covers & supplying CI MH covers - & Bucket Cleaning - Cleaning the sewer lines using Bucket type cleaning machine in Nandavanam near DD Office to Jagathy junction near back side of Karthika hotelunder - Sewerage section no: II	Sewerage Division, KWA, Trivandrum	State Plan	Tendered
14	State Plan 2025- Laying 150mm SW line and Manholes near Vrindhavan Gardens at East fort-under sewerage section 1,Kuriyathy.	Sewerage Division, KWA, Trivandrum	State Plan	Tender evaluation

15	State Plan 2025-26-Increasing the capacity of Sewage pipeline and reconstructing RCC manholes in various places of Padanav lane PRWA-12,Kuttikadu lane KNRA- 11,SPTRA 108,MSNRA-52,PRAW 1-4,TPSRA103-108 at Manacaud Ward &KB Pandaram lane under sewerage section 1,Kuriyathy	Sewerage Division, KWA, Trivandrum	State Plan	Tendered
16	State Plan-2025-26-Relaying old Sewer lines and re construction of Old dilapidated manholes at Chettikulangara NSS Karayogam Line. And cleaning sewer lines at Chalai, Sreevaraham and Fort areas.	Sewerage Division, KWA, Trivandrum	State Plan	AS Received

AMRUT

SI No.	Name of Work	Implementing office	Source of fund	Time line	Status
1	AMRUT 2.0 - T S S - Providing and laying 250 mm SW Sewer line at Kanjirampara East Residence Association (KERA), (MH 1-MH15) under Sewerage section Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
2	AMRUT 2.0 - T S S - Providing and laying 250 mm SW Sewer line at Kanjirampara East Residence Association (KERA), (MH16-MH 30) under Sewerage section Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
3	AMRUT 2.0 - T S S - Providing and laying 200 mm SW Sewer line at Harismrithy lane, Kanjirampara East Residents Association, Kanjirampara, under Sewerage section Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed

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

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

20	Rehabilitation and upgradation of sewerage main from NC Hospital junction to Kannettumuuku junction	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
21	Reconstruction of old dilapidated brick man holes, construction of new sewerage man holes, raising of man hole covers & supplying CI MH covers in Pottakuzhy - Mulavana road stretch	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
22	AMRUT 2.0-Supply, Erecting and Commissioning of various pump sets, other necessary Equipments for 107 MLD Sewerage Treatment Plant at Muttathara	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
23	AMRUT 2.0--Reconstruction of old dilapidated brick and RCC manholes with RCC and raising man hole covers in to road level and replacing RCC cover slab in to CI cover under Sansthamangalam Section	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
24	AMRUT 2.0 - Raising of manhole at Vivekanda Nagar, Sastha Nagar, Chadiyara Poojappura area in connection with commissioning of Jagathy Koottamvila scheme and laying new sewer branch line towards Sastha nagar SRA 144A to 144B.	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
25	AMRUT2 -Replacing and upgrading of old and damaged sewer line at Jagathy CS road	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
26	AMRUT 2.0 - Replacing and upgrading of old and damaged sewer line through NB Street and NSS Karayogam of Jawaher Nager in Kowdiar ward	Sewerage Division, KWA, Trivandrum	AMRUT		Dropped
27	AMRUT 2.0 - Replacing of Old and damaged sewer line in Kunnukuzhi R C Street	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
28	AMRUT 2.0 -Providing new sewer line in Mele veedu Madan kovil & Kukiliar lane fom house no. KLRA 80 to KLRA 125 in Jagathy ward	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing

29	AMRUT 2.0--Providing new Sewer line in Idavakkadu line at Vikramapuram Hill and Kalathilpuzha line in Kanjirampara	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
30	AMRUT 2.0 -Replacing old and damaged sewer line at Althara main street and street in front of Heera Blue Berry	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
31	AMRUT 2.0 -Providing new sewer line near Udarasiromani Jhanardhanan Pillai road in Vazhuthacadu road	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
32	AMRUT 2.0 - Providing new sewer line at Housing Board colony in Kuravankonam.	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
33	AMRUT 2.0 -Providing new sewer line at Vinayaka nagar towards Arappura area	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
34	Amrut 2.0 Providing new sewer line and replacing and upgrading of old and damaged sewer line from Ambalamukku Vrindavan Gardens to Oolampara junction for rectifying Sewerage overflow in Ambalamukku Sreekrishna	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing

SMART CITY

SI No.	Name of Work	Implementing office	Source of fund	Time line	Status
1	Deposit work - Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system from Music college to MN Smarakam road (Model school junction to Mettukada Road ID -PWD -PH-4B - 142c) due to work carried out by smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
2	Deposit work - Smart city Thiruvananthapuram Ltd - Reconstruction/Maintenance of Sewerage system from Zam - Zam hotel to Palayam traffic lnt near VJT hall (VJT Hall flyover Road - 108) due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed

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

9	T S S-Deposit Work- Smart city project- Shifting and laying 200 mm SW sewer line by replacing 150mm line near Vazhuthacaud Junction towards MP Appan road under Sewerage Section , Sasthamangalam. Road ID 104 Part1	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
10	T S S-Deposit Work- Smart city project- Shifting and laying 250 mm SW sewer line by replacing 150mm line From Bishop Pereira Hall Jn to Nanthavanam Jn. under Sewerage Section , Sasthamangalam. (Road ID 24)	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
11	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system at Kalabhavan Mani Road(from Panavila jn to Womens college jn - Road id - 116) due to work carried out by Smart City.	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
12	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system from Vandrose Jn to Spencer Jn - Road id - 112) due to work carried out by Smart City	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
13	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system from Vandrose Jn to contonment police station (Punnam road)- Road id - 141) due to work carried out by Smart City	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
14	TSS - SCTL - Deviation of sewer line and reconstruction of brick man holes in the roads constructing under Smart city project roads with ID 144 (PWD PH -4B) in OVER BRIDGE TO UPPIDAMMOODU JN Chainage +00 to +731	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed

15	TSS - SCTL - Deviation of sewer line and reconstruction of brick man holes in the roads constructing under Smart city project - Statue - General Hospital road - ID147 (PWD)	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
16	TSS - SCTL - Deviation of sewer line and reconstruction of brick man holes in the roads constructing under Smart city project roads with ID 148 in Ayurveda college to Chettikulangara under Sewerage Section I, Kuriathy	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
17	TSS - SCTL - Providing sewer main and rider - reconstruction of brick man holes in the roads constructing under Smart city project along West nada - Azhikkotta road (ID - 136)	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
18	TSS - SCTL - Deviation of sewer line and reconstruction of brick man holes in the roads constructing under Smart city project road with ID 91 - Mathrubhumi road chainage 0.00 to 255.00 under Sewerage Section I, Kuriathy	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
19	TSS - SCTL - Deviation of sewer line and reconstruction of brick man holes in the roads constructing under Smart city project roads with ID 146 (PWD PH - 4B) in Ayurveda college to Old GPO Kunnumpuram under Sewerage Section I, Kuriathy	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
20	TSS - SCTL - Providing sewer main and rider - reconstruction of brick manholes in Court Jn. - General Hospital road constructing under Smart city project (ID - 149) Chainage 705m	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
21	TSS - SCTL - Rehabilitation of sewer line , providing rider main and construction of man holes in Padmavilasom road constructing under Smart city project, ID - 132	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed

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

MLA- ADS

1	LAC-ADS- Thiruvananthapuram Constituency - Project 19284- TSS-PROVIDING NEW SEWER LINE BESIDE EAST FORT- ATTAKULANGARA ROAD NEAR ATTAKULANGARA JUNCTION-Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Ongoing
2	LAC-ADS-Project No. 19398 - Thiruvananthapuram Constituency- - Reconstructing RCC manholes and relaying sewage pipe line at Meppalli gardens and chempakassery thannimoodu lane in palkulangara ward-Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Ongoing

3	LAC-ADS-2024-25- Sewerage section Sasthamangalam--Providing new Sewer line at Pottakuzhi junction near Kairali hotel- Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Completed
4	LAC-ADS-Vattiyoorkavu - Rehabilitation of sewer lines- T S S- Rehabilitation of old and damaged sewer line in Kowdiar SS Kovil C Lane and E Lane -Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Tender temporarily Cancelled
5	LAC-ADS-Rehabilitation of sewer line-Rehabilitation of existing damaged sewer pipe line at Nandavanam in Valiyasala ward-Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Submitted for Revised AS
6	LAC-ADS-Laying new sewerage line -Mosque lane Sreemoolam lane at Thampanoor ward-Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Retendered

STATE WATER QUALITY MONITORING PROGRAMME (SWMP) 2025							
Analysis Report for the month of September 2025							
Name of River			KARAMANA				
Date and Time of Sample collection			18/09/2025				
Method of analysis			SAMPLE ID				
Sl no.	Parameters	Peppara	Aruvikkara	Mangattukadavu	Palattukadavu	Thiruvallom	Moontantrumukku
1	Temperature (°C)	29	29	29	30	29.3	29
2	Dissolved O ₂ (mg/L)	7.3	6.8	6.8	4.8	4.3	0.7
3	pH	6.9	6.2	6.4	6.4	6.5	6.7
4	Conductivity (µmho/Cm)	47	38	108	228	870	666
5	BOD (mg/L)	0.5 (BDL)	0.4 (BDL)	1.2	2.8	3.7	4.2
6	Nitrate - N (mg/L)	0.1 (BDL)	0.0 (BDL)	1.3	16.2	14.8	24.4
7	Turbidity (NTU)	1 (BDL)	1 (BDL)	1.1	1 (BDL)	2.1	4.1
8	Total Alkalinity (mg/L)	12 (BDL)	8 (BDL)	20 (BDL)	24	40	72
9	Chlorides (mg/L)	8	8	16	32	192	100
10	Ammonical N (mg/L)	0 (BDL)	0 (BDL)	0.4 (BDL)	0.4 (BDL)	0.9	8.1
11	Total Hardness (mg/L)	8 (BDL)	10 (BDL)	28	60	84	100
12	Ca as CaCO ₃ (mg/L)	4 (BDL)	8	16	52	46	60
13	Mg as CaCO ₃ (mg/L)	4 (BDL)	2 (BDL)	12	8	38	40
14	Sulphate (mg/L)	1 (BDL)	2.3 (BDL)	6	5.8	23.9	23.9
15	Sodium (mg/L)	4.2 (BDL)	4.8 (BDL)	8.6	20.8	100	62
16	Measured TDS (mg/L)	28	29	60	173	475	413
17	Total Phosphate (mg/L)	0.02 (BDL)	0.01 (BDL)	0.3	0.0119 (BDL)	0.3	0.2 (BDL)
18	Boron (mg/L)	0 (BDL)	0 (BDL)	0 (BDL)	0.13 (BDL)	0.30 (BDL)	0.5 (BDL)
19	Potassium (mg/L)	1.5	2.1	1.8	3.9	32.5	42.1
20	Total Coliform (MPN/100ml)	200	500	1100	600	5200	22000
21	Fecal Coliform (MPN/100ml)	90	300	610	200	1200	15000
22	SAR	0.65	0.65	0.71	1.15	4.73	2.70


 ASSISTANT ENVIRONMENTAL SCIENTIST

RIVER PAMBA

	Activity	Implementing agency	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(a)	No industries						
A(a)	Monitorng of river water quality	Kerala State Pollution Control Board	Continuing	Continuing	Continuing		
C(ii)	Establishment of de-centralized solid waste treatment facility	Mannar Panchayat	THUMBOORMOOZH I MODEL AEROBIC COMPOST 4 UNIT IN PANCHAYTH&2 UNIT IN PRIVATE BUS STAND.	No new project taken	No new project taken	100	
		Niranam Panchayath	-	521 biocomposter bin issued to households and 15 compost pit constructed for house holds and 3 compost pit constructed for public	521 biocomposter bin issued to households and 15 compost pit constructed for house holds and 3 compost pit constructed for public		
		Kadapra Panchayath	The Panchayat has resloved to identify all polluting invloved in pollution of river resources and iniation of penal against them	The Panchayat has resloved to identify all polluting invloved in pollution of river resources and iniation of penal against them	The Panchayat has resloved to identify all polluting invloved in pollution of river resources and iniation of penal against them		
C	Establishment of Material Collection Facility	Mannar Panchayat	ELECTRIFICATION TENDER PROCESS GOING ON	Civil work completed	Civil work completed	70%	Floor completed
		Niranam Panchayath	Not submitted the details	MCF construction completed. 13 mini MCF completed in all wards	MCF construction completed. 13 mini MCF completed in all wards		
		Kadapra Panchayath	Material Collection Facility is fully functional in Kadapra Grama Panchayath	Material Collection Facility is fully functional in Kadapra Grama Panchayath	Material Collection Facility is fully functional in Kadapra Grama Panchayath		
C		Mannar Panchayat	NO RRF IN PANCHAYATH	NO RRF IN PANCHAYATH	NO RRF IN PANCHAYATH	NA	NA

	Resource Recovery Facility	Niranam Panchayath	No RRF. PLASTIC WASTE COLLECTED BY HARITHA KARMASENA IS TRANSFERRED TO CKCL	No RRF. PLASTIC WASTE COLLECTED BY HARITHA KARMASENA IS TRANSFERRED TO CKCL	No RRF. PLASTIC WASTE COLLECTED BY HARITHA KARMASENA IS TRANSFERRED TO CKCL		
		Kadapra Panchayath	Resource Recovery Facility due to non availability of space	Resource Recovery Facility due to non availability of space	Resource Recovery Facility due to non availability of space		
C	Installing household and community level solid waste management units	Mannar Panchayat	PLASTIC WASTE COLLECTION	PLASTIC WASTE COLLECTION	PLASTIC WASTE COLLECTION		
C	Door to door collection and transportation of municipal solid waste	Mannar Panchayat	75.74%	User fee collection 76.15%	User fee collection 76.15%		
C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Parumala Town	Kadapra Panchayat	The Panchayat considered that sewage treatment plants currently not need with in Panchayat area around Parumala	The Panchayat considered that sewage treatment plants currently not need with in Panchayat area around Parumala	The Panchayat considered that sewage treatment plants currently not need with in Panchayat 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	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	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government	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	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government	Work agreement executed	Work ongoing		
C	Electrical-Light arrangements and Surveillance cameras	Irrigation department	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government	Fund to be allotted for the proposal	Fund to be allotted for the proposal	NA	
C	Regulating activities in flood plain zone, protection and management of flood plain zone	Irrigation department	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government	Fund to be allotted for the proposal	Fund to be allotted for the proposal		23.85%
	Greenery development Plantation plan. Plantation on both sides of the river, setting up biodiversity parks on flood plains by removing encroachment	Irrigation department	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government	Fund to be allotted for the proposal	Fund to be allotted for the proposal		

C (b) (ii)	Green Protocol implementation in all Offices institution & Public function	Mannar Panchayat		100% Green protocol has implemented in in public offices.	100% Green protocol has implemented in in public offices.		
		Niranam Panchayath					
		Kadapra Panchayath	Green protocol implemented among all the offices and public function	Green protocol implemented among all the offices and public function	Green protocol implemented among all the offices and public function		
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		
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	Awareness programme conducted during sabarimala festival season through NSS volunteers	Awareness programme conducted during sabarimala festival season through NSS volunteers	Awareness programme conducted during sabarimala festival season through NSS volunteers		
C	Management of municipal, plastic, hazardous, biomedical and electrical waste	LSGD	PLASTIC WASTE IS COLLECTED BY HARITHAKARMA SENA				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 july 2025	Progress in the month of august 2025	Progress in the month of september2025	% 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 july2026	NOC has not been issued to industries for Ground Water extraction during august 2026	NOC has not been issued to industries for Ground Water extraction during septmber2026	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	Pond rejuvenation work completed	Estimate for Implementation of ARS at 4 sites has been prepared and sent for Technical Sanction	Estimate for Implementation of ARS at 4 sites has been prepared and sent for Technical Sanction.	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	Groundwater sample collection during the month of November 2024 for the monitoring wells for General & Iron analysis (borewells and open wells) collected and sent to Analytical Lab Thiruvananthapuram for chemical analysis. General & Iron samples of the observation wells (28 Nos- Baseline Station) in the District collected during the month April 2025 and sent to Analytical Lab Trivandrum.	General & Iron samples of the observation wells (14 Nos- Trend & Surveillance Station- Selected Wells) in the District collected during the month July 2025 and sent to Analytical Lab Trivandrum.	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	Work in progress	<p>Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the clearance from GWD.</p> <p>ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.</p> <p>3 number of Mass Awareness Programme on Ground Water Conservation & regulation completed.</p>	<p>Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the clearance from GWD.</p> <p>ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.</p> <p>3 number of Mass Awareness Programme on Ground Water Conservation & regulation completed.</p>	<p>Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the clearance from GWD.</p> <p>ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.</p> <p>iii) Awareness Programme organised to the public to adopt rainwater harvesting measures.</p>	<p>1) Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the feasibility report of GWD.</p> <p>ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.</p> <p>iii) Awareness programmes organised to the public to adopt rainwater harvesting measures</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 PAMBA, PATHANAMTHITTA(SEPTEMBER 2025)

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT- Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2025	Projects for to be taken
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	„	„
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning	„	Niranam Gramapanchayat is an upper Kuttanad area , so no such dry land suitable for solid waste treatment plant is available . MCF construction completed .13 mini MCF implimentedc in all wards . Necessary instruction are given to all offices and institution to strictly comply with the green protocol and is regularly monitored.
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	<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 	NA	-
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</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>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>		<p>Biomedical waste disposed through IMAGE , Plastic waste collected door to door by Haritha Karma Sena</p> <p>Yes, Going On</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 AUGUST 2025	Progress in the month of SEPTEMBER 2025	% works completed	Details of works remaining
A(a)	No industries	-	-	-		-	-
A(a)	Monitoring of river water quality	Kerala State Pollution Control Board	Continuing project				
C(ii)	Establishment of de-centralized solid waste treatment facility	Mannar Panchayath	31.03.2021	No new project taken	No new project taken	-	-

		Niranam Panchayat		Niranam Gramapanchayat is an upper Kuttanad area , so no such dry land suitable for solid waste treatment plant is available .	Niranam Gramapanchayat is an upper Kuttanad area , so no such dry land suitable for solid waste treatment plant is available .		
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					The Panchayat has resolved to identify all polluting invloved in pollution of river resources and iniation of penal against them	The Panchayat has resolved to identify all polluting invloved in pollution of river resources and iniation of penal against them		
C	Establishment of Material Collection Facility	Mannar	31.03.2021	Civil work completed	Civil work completed	70%	flooring completed	
		Niranam		MCF construction completed .13	MCF construction completed 13			

		Kadapra Panchayath		mini MCF implemented in all wards . Material Collection Facility id fully funcational in Kadapra Grama Panchayat	mini MCF implemented in all wards . Material Collection Facility id fully funcational in Kadapra Grama Panchayat		
C	Resource Recovery Facility	Mannar	31.03.2021	NO RRF IN PANCHAYATH	NO RRF IN PANCHAYATH	NA	NA

		Niranam		Necessary instruction are given to all offices and institution to strictly comply with the green protocol and is regularly monitored	Necessary instruction are given to all offices and institution to strictly comply with the green protocol and is regularly monitored		
		Kadapra		Resource Recovery Facility due to non-	Resource Recovery Facility due to non-availability		

				availability of space	of space		
C	Installing household and community level solid waste management units	Mannar Panchayat	31.03.2021	PLASTIC WASTE COLLECTION	PLASTIC WASTE COLLECTION		
C	Door to door collection and transportation of municipal solid waste	Mannar Panchayat	31.03.2021	Userfeecollection 76.15%	Usefeefor plastic collection 76.15%		23.85%
C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Parumala Town	Kadapra Panchayat	31.12.2020	The Panchayat considered that sewage treatment plants are currently not need with in	The Panchayat considered that sewage treatment plants are currently not need with in		

				Panchayat area around Parumala	Panchayat 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	31.12.2020	Projects has to be taken			
C	Construction of compound wall with fencing	Irrigation department	31.03.2021	Work could not be arranged due to lack of funds	Work could not be arranged due to lack of funds		
C	Removing light jungle and muddies from river courses	Irrigation department	31.03.2021	Work tendered	Work tendered		
C	Electrical-Light arrangements and Surveillance cameras	Irrigation department	31.03.2021	Work could not be arranged due to lack of funds	Work could not be arranged due to lack of funds		
C	Regualting activites in flood plain zone, protection and management of flood plain zone	Irrigation department	31.03.2021	Work could not be arranged due to lack of funds	Work could not be arranged due to lack of funds		
	Greenery developmentPlantation plan. Plantation on both sides of the river, setting up biodiversity parks on flood plains by removing encroachment	Irrigation department	31.03.2021	Work could not be arranged due to lack of funds	Work could not be arranged due to lack of funds		
C (b) (ii)	Green Protocol implementation in all Offices institution & Public function	Mannar	31.05.2020	100% Green protocol has implemented in	100% Green protocol has implemented in		

		Kadapra		in public offices Green protocol has implemented in public officers Kadapa Grama Panchayat	in public offices Green protocol has implemented in public officers Kadapa Grama Panchayat		
		Niranam		-	-		
D(a)	Issues relating to E-flow, maintaining minimum environmental flow of river (by having watershed management provisions)	Irrigation department	30.11.2020				
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 is collected by harithakarma sena every month & e-waste once in an year
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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 AUGUST 2025	Progress in the month of SEPTEMBER 2025	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	NOC has not been issued to industries for Ground Water extraction during August 2025	NOC has not been issued to industries for Ground Water extraction during September 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	9 sites work found feasible. Estimate under preparation	Estimate for Implementation of ARS at 4 sites has been prepared and sent for Technical Sanction.	Demand based	All the blocks in the district is categorized as SAFE as per GEC estimation. Kadapra-Niranam Area is not feasible for Ground Water Recharge. However, GW recharging programme is taken up in some pockets in the midland area including Manimala basin. Where seasonal GW level fluctuation is noticed.
3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps	General & Iron samples of the observation wells (14 Nos- Trend & Surveillance Station- Selected Wells) in the District collected during the month July 2025 and sent to Analytical Lab Trivandrum.	General & Iron samples of the observation wells (14 Nos- Trend & Surveillance Station- Selected Wells) in the District collected during the month July 2025 and sent to Analytical Lab Trivandrum.	Periodical assessment (Regular programme) Chemical analysis result of groundwater samples received from Analytical Lab, Trivandrum upto December 2023	(i)Maintaining a network of observation wells in various hydrogeomorphic units throughout the district from which water level and water samples have been collected periodically and analysed. (ii)generally groundwater quality is

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

Analysis Result of Drains Joining to Mannar-Thakazhi Stretch of Pamba River (September-2025)

Sl.No	Name of Drain	Parameters														
		pH			Electrical Conductivity(µS/cm)			BOD(mg/l)			TC(Nos/100ml)			FC		
	Months	JULY	AUG	SEPT	JULY	AUG	SEPT	JULY	AUG	SEPT	JULY	AUG	SEPT	JULY	AUG	SEPT
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	7.2	6.94	8.9	129.9	35.66	127.1	3.5	0.1	11.3	400	3800	2800	200	1400	1800
4	KaruvelilThodu	7.4	7.1	8.8	111.7	35.87	57	1.35	0.5	1.5	2200	1600	9800	200	200	2400
5	Nochithodu	6.9	7.08	8.2	116.7	39.22	48.83	0.25	1.5	2	4800	6600	6600	2400	2800	1800
6	Pattaparambil Thodu	7	6.99	7.9	52.2	35.2	37.7	1.15	0.6	2.1	1600	800	5400	600	400	3000
7	Kappiyarissery Thodu	6.8	7.12	7.8	66.81	51.07	43.7	2.45	2.7	4.2	9400	800	6000	600	200	1200
8	Kombankery Thodu	7.1	7.04	7.7	69.42	32.68	36.29	1.85	1.1	2.1	2600	1000	4400	800	800	2000
9	Perackalthodu	7.2	7.12	7.8	54.82	35.65	67.58	0.85	0.4	2.3	1800	1200	4000	400	200	2600
10	Erathodu	7.1	7	7.8	48.44	40.59	39.59	0.85	1.2	2.5	400	1600	3600	200	800	2000
11	Kolarayaru	7	7.08	7.7	45.62	35.22	36.82	1.05	1	2.9	400	1600	3400	200	600	2600

ACTION PLAN FOR RIVER MANIMALA, KERALA								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(a)	Monitoring of river water quality	Kerala State Pollution Control Board	Continuing project				100%	Nil
A(b)	Rendering Plant at Eraviperoor or Thiruvalla	Eraviperoor/ Thiruvalla local body	31.03.2021				0%	Work to be initiated
C(ii)	Fencing of bridges, desilting, dredging and protection works, surveillance cameras at vantage points	Irrigation department	31.03.2021	Estimate submitted for fund	Fund to be allotted for the proposal	Fund to be allotted for the proposal	0%	Work to 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	Estimate submitted for fund	Fund to be allotted for the proposal	Fund to be allotted for the proposal	0%	Yet to be initiated
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	DPR Submitted to CE's office	Fund to be allotted for the proposal	Fund to be allotted for the proposal		Work to be initiated
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	On going	On going		NA	NA
C	Door to door collection of solid waste & Material Collection Facilities (MCF) & Resource Recovery Facilities (RRF)	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoor panchayaths	31.12.2020	Plastic waste collected by Harihakarmasena and lifted by CKCL - Peringara GP, Puramattom GP, Kaviyoor GP, Eraviperoor GP	Door collection 100% Door collection 100%-Kaviyoor GP Door to door collection 100% in Eraviperoor GP		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 July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	31.03.2021					
2	B(ii)	Ground water recharging / rain water harvesting in Govt offices	31.03.2021					
3	NGT order in O.A 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					

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 July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(a)	Monitoring of river water quality	Kerala State Pollution Control Board	Continuing project				100%	NIL
A(b)	Rendering Plant at Eraviperoor or Thiruvalla	Eraviperoor/ Thiruvalla local body	31.03.2021				0%	Work to be initiated
C(ii)	Fencing of bridges, desilting,	Irrigation	31.03.2021				0%	Work to

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

C	Door to door collection of solid waste & Material Collection Facilities (MCF) & Resource Revcovery Facilities (RRF)	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoorpanchayaths	31.12.2020					NA	NA
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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 July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	31.03.2021					
2	B(ii)	Ground water recharging / rain water harvesting in Govt offices	31.03.2021					
3	NGT order in O.A no.496/2016	NGT order in O.A no.496/2016 Identification of illegal bore wells in the	31.03.2021					

	Identification of illegal bore wells in the catchment area.	catchment area.						
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**ANALYSIS REPORT OF DRAINS OF MANIMALA BETWEEN KALLOOPARA AND
THONDRA
September- 2025**

SI NO	BOTTLE NO.	Name of Drains	PH	BOD	TC	FC
1	TK1	Panayampalathodu	7.5	1.2	NIL	NIL
2	TK2	PadathupalamThodu	7.8	3.1	1000	800
3	TK3	Thottappuzha	7.9	1.7	2000	1400
4	TK4	Kuttapuzha under Kattodubridge	7.7	9.3	600	400
5	TK5	Kadavumbara	7.5	2.5	4600	600
6	TK6	Drain under Varappalam Bridge	NIL	NIL	NIL	NIL
7	TK7	Drain under kallupalam Bridge	7.4	3.1	600	NIL
8	TK8	Komalamthodu	7.5	3.5	8200	4000
9	TK9	Vennikulam Valiyathodu	7.4	3.4	2000	800
10	TK10	Paduthodu	7.2	2.1	1200	1000
11	TK11	Mallappally Valiyathodu	7.3	2.1	2400	1600

**MONTHLY ANALYSIS REPORT OF POLLUTED RIVER
STRETCHES SEPTEMBER-2025
STATION: MANNAR**

Sampling Date: 03.09.2025

Sl. No	PARAMETERS	ITTINAYARKKADAVU BRIDGE KUTTAMPEROOR	KOTTAKAL KADAVU BRIDGE KORATTIKADAVU	PARUMALA BRIDGE	MANNAR BRIDGE
1	Temp. (°C)	26	27	28	27
2	pH	6.9	6.8	6.8	6.8
3	Conductivity (µS/cm)	90	79	79	75
4	DO (mg/L)	3.8	4.6	4.4	5.8
5	BOD (mg/L)	0.4	1.3	1.3	0.2
6	COD (mg/L)	0.7	2.2	2.2	0.4
7	TDS (mg/L)	59	51	51	49
8	TC (CFU/100ml)	5500	2600	7500	7900
9	FC (CFU/100ml)	500	1800	5000	4000
10	FSC(CFU/100ml)	ABSENT	ABSENT	20	40


13/10/25

செய் தி.சி
செய்திக்குச் செய்தி

WATER QUALITY DATA OF POLLUTED RIVER STRETCHES SEPTEMBER-2025

DISTRICT OFFICE, PATHANAMTHITTA

Date of Sampling: 03.09.2025

Sl. No	PARAMETERS	THAKAZHY	EDATHUA	MANNAR
1	Temperature, °C	27	28	27
2	pH	6.8	6.8	6.8
3	Conductivity, µmhos/cm	125	111	75
4	Turbidity, NTU	1	1.2	1.2
5	Phenolphthalein Alkalinity, as CaCO ₃	Nil	Nil	Nil
6	Total Alkalinity, as CaCO ₃	25	25	27
7	Chloride, mg/l	25	12	18
8	COD, mg/l	5.2	5.2	5
9	TKN, mg/l	NIL	NIL	NIL
10	Ammoniacal-N, mg/l	BDL	BDL	BDL
11	Hardness, as CaCO ₃ mg/l	26	27	29
12	Calcium, as CaCO ₃ mg/l	16	18	18
13	Magnesium as CaCO ₃ , mg/l	10	9	11
14	Sulphate, mg/l	5.9	5.5	5.4
15	Sodium, mg/l	13.2	5.9	9.4
16	Total Dissolved Solids, mg/l	92	65	49
17	Total Fixed Solids, mg/l	26	36	24
18	Total Suspended Solids, mg/l	39	48	32
19	Phosphate, mg/l	BDL	BDL	BDL
20	Boron, mg/l	BDL	BDL	BDL
21	Potassium, mg/l	4.5	1.0	3.8
22	BOD, mg/l	1.3	1.0	0.4
23	Fluoride, mg/l	BDL	BDL	BDL
24	Dissolved Oxygen, mg/l	4.9	4.4	6.1
25	Nitrate-N, mg/l	3.111	1.6	3.331
26	Total Coliform, CFU/100 ml	1600	2800	7900
27	Faecal Coliform, CFU/100 ml	800	1800	4000
28	SAR	1.1	0.5	0.8
29	% of sodium	47.5	31.2	37.6
30	Faecal Strepto Coccus, CFU/100 ml	40	100	40


 13/10/25
 District Office
 Pathanamthitta

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(b)	Augmentation and Revamping of existing STP at near Adwaittha Ashramam and to increase the capacity of STP so as to treat more sewage generated in the municipality	Aluva Municipality	Dec 2019			The mechanical work was about to commence in site and the work order issued to contractor, But When authority from mechanical dredger wing visited the site, the Advaitashram authority denied the access to the plant claiming that the land in which the plant is situated and the access road to the plant is under their ownership. The Next day on 17/09/25 they constructed a compound wall in the road offering hindrance to access the plant, This was informed to SHO and SP, Aluva and till date no mandatory action was taken from their end. The issue was also raised before the Hon. Collector who took stringent action to Thasildhar LA to issue stop memo and present the status regarding the title of the land. It was informed by The thasildar that the Survey No. 37/25 and 37/27 in which the plant is situated in under the title of sarkar thodu and sarkar bhoomi which is indeed under the jurisdiction of revenue dept. A meeting was contravened by the Hon. Collector on 3/10/2025 under the presence of Chairman, Secretary and Municipal Engineer and it was informed by the Collector that steps regarding demolishing of this unauthorized wall have been putforth and Form A will be initiated on 6/10/2025 under the chair of ADM and based on the decision made, FORM B and FORM C will be initiated. This have caused delay to PROGRESS OF WORK which was informed to PD, and ENVIRONMENTAL ENGINEER, PCB.ADM		

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
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 work is in progress, piling work of building have been completed.		
A(b)	Discharge of sewage from township to the River through drain near Periyar Hotel shall be stopped.	Aluva Municipality	2020	The special squad formed at municiplaity level is regularly monitoring and conducting periodical inspections.The dafaulters are given notice and penalty is being collected after closing the illegal outlet.Apart from municipality squad,both district enforcement and IVO inspections are being carried out periodically.The Municipality maintains a regular grievance redressal mechanism through the War Room and the Swachh App/ KSWMP MIS platform to manage and execute the abatement of identified illicit sewage outlets	The special squad formed at municiplaity level is regularly monitoring and conducting periodical inspections.The dafaulters are given notice and penalty is being collected after closing the illegal outlet.Apart from municipality squad,both district enforcement and IVO inspections are being carried out periodically.The Municipality maintains a regular grievance redressal mechanism through the War Room and the Swachh App/ KSWMP MIS platform to manage and execute the abatement of identified illicit sewage outlets	The special squad formed at municiplaity level is regularly monitoring and conducting periodical inspections.The dafaulters are given notice and penalty is being collected after closing the illegal outlet.Apart from municipality squad,both district enforcement and IVO inspections are being carried out periodically.The Municipality maintains a regular grievance redressal mechanism through the War Room and the Swachh App/ KSWMP MIS platform to manage and execute the abatement of identified illicit sewage outlets		

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain and to collect fine based on polluter pay principle	Aluva Municipality, KSPCB	2020	The special squad formed at municipality level is regularly monitoring and conducting periodical inspections. The defaulters are given notice and penalty is being collected after closing the illegal outlet. Apart from municipality squad, both district enforcement and IVO inspections are being carried out periodically. The Municipality maintains a regular grievance redressal mechanism through the War Room and the Swachh App/ KSWMP MIS platform to manage and execute the abatement of identified illicit sewage outlets	The special squad formed at municipality level is regularly monitoring and conducting periodical inspections. The defaulters are given notice and penalty is being collected after closing the illegal outlet. Apart from municipality squad, both district enforcement and IVO inspections are being carried out periodically. The Municipality maintains a regular grievance redressal mechanism through the War Room and the Swachh App/ KSWMP MIS platform to manage and execute the abatement of identified illicit sewage outlets	The special squad formed at municipality level is regularly monitoring and conducting periodical inspections. The defaulters are given notice and penalty is being collected after closing the illegal outlet. Apart from municipality squad, both district enforcement and IVO inspections are being carried out periodically. The Municipality maintains a regular grievance redressal mechanism through the War Room and the Swachh App/ KSWMP MIS platform to manage and execute the abatement of identified illicit sewage outlets		
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		Council approval received on 12.07.2024 for preparing the DPR and inviting tender. This is included in the DPR for the new General Market. PCB directed to submit an application for ICE for construction. Approval from the Town Planning Department is withheld because a house is 7.5 m away; direct government approval is needed	Letter put forth to Govt. for obtaining exception in this regard, based on decision obtained further steps will be taken.		

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(b)	Procurement of sewer cleaning machines and equipment maintenance	Aluva Municipality	March 2020	The clearing operations of the drains are being carried out every day. JCB, Hitachi etc. are being used on an annual contract basis. Equipment for clearing the drains has been purchased.	The clearing operations of the drains are being carried out every day. JCB, Hitachi etc. are being used on an annual contract basis. Equipment for clearing the drains has been purchased.	The clearing operations of the drains are being carried out every day. JCB, Hitachi etc. are being used on an annual contract basis. Equipment for clearing the 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 dumped), 66 cameras have been installed. All are working. Rs. 15 lakh has been allocated for installing new cameras. They will be installed in this financial year. Total fine imposed is 70500/- and total fine collected is 60,000/-	As part of monitoring dumping sites (places where waste is dumped), 66 cameras have been installed. All are working. Rs. 15 lakh has been allocated for installing new cameras. They will be installed in this financial year. Total fine imposed and collected is Rs.10000/-	As part of monitoring dumping sites (places where waste is dumped), 66 cameras have been installed and functional for monitoring dumping sites. Rs. 15 lakh has been allocated for installing new cameras to be installed this financial year. Fine collected (2025): Illegal Outlet: ₹60,000/-; Illegal Dumping: ₹10,000/-; Single-use Plastic: ₹10,000/-.		
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 of the dumping yard retaining wall has been completed. The construction of the compound wall has been completed. The STP will be installed immediately after the biomining. The biomining has started, completed 45 %. The biomining works is now stopped temporarily due to rain and wet conditions at site since April 2025. The works will be resumed shortly.	The construction of the dumping yard retaining wall has been completed. The construction of the compound wall has been completed. The STP will be installed immediately after the biomining. The biomining has started, completed 45 %. The biomining works is now stopped temporarily due to rain and wet conditions at site since April 2025. The works will be resumed shortly.	The construction of the dumping yard retaining wall has been completed. The construction of the compound wall has been completed. The STP will be installed immediately after the biomining. The biomining has started, completed 45 %. The biomining works is now stopped temporarily due to rain and wet conditions at site since April 2025. The works will be resumed shortly.	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

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SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
C(ii)	Installation of plastic shredding unit	Kalamassery Municipality	June 2019	A plant has been set up and is functioning. The non biodegradable wastes are being transported by CKCL. It was informed that this is being transported to the Palakkad cement factory.	A plant has been set up and is functioning. The non biodegradable wastes are being transported by CKCL. It was informed that this is being transported to the Palakkad cement factory.	A plant has been set up and is functioning. The non biodegradable wastes are being transported by CKCL. It was informed that this is being transported to the Palakkad cement factory.	100%	
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 is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It is not possible to install cameras on NAD roads as NAD has control over them. Collaborating with the KSWMP project to prepare an IEC plan. As part of this, the decision to provide drainage and awareness classes has been included in this year's plan. The IEC plan by KSWMP has been approved and Financial sanction for the same has been obtained on 27.08.2025.	A squad has been formed and is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It is not possible to install cameras on NAD roads as NAD has control over them.collaborating with the KSWMP project to prepare an IEC plan. As part of this, the decision to provide drainage and awareness classes has been included in this year's plan. The IEC plan by KSWMP has been approved and Financial sanction for the same has been obtained on 27.08.2025.	A squad has been formed and is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It is not possible to install cameras on NAD roads as NAD has control over them.collaborating with the KSWMP project to prepare an IEC plan. As part of this, the decision to provide drainage and awareness classes has been included in this year's plan. The IEC plan by KSWMP has been approved and Financial sanction for the same has been obtained on 27.08.2025. IEC awareness activities will commence from October 2025.	NA	IEC awareness activities started. Compound wall painting and wall writing under progress.

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
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 tendering works for the renovation of market has started. The works will be completed within 2 months of renovating the market and after completing the biomining, the STP will be installed at the site of the existing dumping yard. The proposal for 2 new STPs has been sent to the DPC. It has been decided to include the construction of the STP as a new project in this year's plan.	The work of renovating the existing ETP in the market has not started. The works will be completed within 2 months of renovating the market and after completing the biomining, the STP will be installed at the site of the existing dumping yard. The proposal for 2 new STPs has been sent to the DPC. It has been decided to include the construction of the STP as a new project in this year's plan.	The work of renovating the existing ETP in the market has not started. The tender opening of the same is scheduled on October 6th. The works will be completed within 2 months of renovating the market and after completing the biomining, the STP will be installed at the site of the existing dumping yard. The biomining works is presently stopped since April 2025 due to Rain and wet conditions at site. The proposal for 2 new STPs has been sent to the DPC. It has been decided to include the construction of the STP as a new project in this year's plan immediately after the renovation of market. The work of renovating the market is 80% complete.	NA	Tender opened for renovation of existing ETP in the market.. Work will commence soon.
A(a)(iv)	Monitoring and surveillance of industries in Kalamassery Industrial Estate in order to prevent unauthorized discharges to Muttar River	KSPCB	2019					
C(ii)	Installation of modern abattoirs including poultry and meat rendering plants.	Kalamassery Municipality, Industries Department (for land allotment)	2021	There is no progress due to the lack of space.	There is no progress due to the lack of space.	There is no progress due to the lack of space.	NA	
A(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Kalamassery Municipality	2020	Fines have been collected as part of the dumping waste and discharging sewage. Waste dumping fine : July- Rs.116,000/-	Fines have been collected as part of the dumping waste and discharging sewage. Waste dumping fine : August- Rs.198,500/-	Fines have been collected as part of the dumping waste and discharging sewage. Waste dumping fine : September- Rs.226,500/-	NA	

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
E	Installation of cameras at the waste dumping spots	Kalamassery Municipality	2020	84 cameras have been installed, 2 each in 42 wards. Internet connection has been received, Live visuals are monitored and actions taken for violations if any	84 cameras have been installed, 2 each in 42 wards. Internet connection has been received, Live visuals are monitored and actions taken for violations if any	84 cameras have been installed, 2 each in 42 wards. Internet connection has been received, Live visuals are monitored and actions taken for violations if any		
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 being conducted from time to time. The Flow of sewage was not observed during the inspections.	Inspections are being conducted from time to time. The Flow of sewage was not observed during the inspections.	Inspections are being conducted from time to time. The Flow of sewage was not observed during the inspections.	100	
E	Installation of cameras at the waste dumping spots	Eloor Municipality	2020	Cameras have been installed near HIL Company and Manjummel Arattukadavu where the waste was dumped. In addition, in the 2023-24 plan, funds have been allocated for the installation of cameras in various place of the municipality, and accordingly, 84 cameras have been installed in 2 projects, including Rs. 40,00,000/-	Cameras have been installed near HIL Company and Manjummel Arattukadavu where the waste was dumped. In addition, in the 2023-24 plan, funds have been allocated for the installation of cameras in various place of the municipality, and accordingly, 84 cameras have been installed in 2 projects, including Rs. 40,00,000/-	Cameras have been installed near HIL Company and Manjummel Arattukadavu where the waste was dumped. In addition, in the 2023-24 plan, funds have been allocated for the installation of cameras in various place of the municipality, and accordingly, 84 cameras have been installed in 2 projects, including Rs. 40,00,000/-	100	
A(a)(iv)	Periodical inspection in the Industries, Flats, hotels for monitoring of STP,ETP located in Cochin corporation	KSPCB	periodical					

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(a)	Inventory of sources of pollution through a rapid study/Study for identification of pollution sources at Edapally thodu	Kochi Municipal Corporation	3 months	<p>Periodical monitoring by Health squad is going on. About 386 notices had been issued and 258 cases were rectified so far. Consolidated amount of Rs.1,10050/-,Rs.52,030/-, Rs.10010/- had been collected as fine for dumping of septage, waste into water bodies and for dumping plastic for the month of June. An amount of Rs.6, 40,780/- has been collected as fine for littering of waste for only in the month of June. Thus a total fine of Rs. 10,954,580/- had been collected as fine for septage waste management, littering of waste in public places, for illegal using of banned plastic and for illegal outlets as of June 2024.</p>	<p>Periodical monitoring by Health squad is going on. About 404 notices had been issued and the same were rectified so far. An amount of Rs.15,010/- for illegal dumping of septage , Rs.55,020/- for littering of waste at water bodies , Rs.71,140/- for littering of waste at public places, Rs.4,06,150/- for public littering , Rs.26,050/- for waste mismanagement, Rs.40,050/- for burning of waste and thus a total amount of Rs.6,24,980/-has been collected as fine in the month of August as on 27/08/2024.Thus a total fine of Rs. 1,22,39,880/- had been collected as of August 2024</p>	<p>Periodical monitoring by Health squad is going on. About 662 notices had been issued and majority of cases were rectified so far. An amount of Rs.2,11,530/- for public littering , Rs.85,020/- for littering of waste in water bodies, Rs.37,060/- for littering of waste in public places, Rs.30,510/- as fine for waste removal, Rs.42,500/- for waste mismanagement at establishments, shops etc, Rs.37,000/- is collected as eviction fine, Rs.82,080/- is collected as waste collection user fee, Rs.3,000/- is collected as fine for burning of waste at public places, and thus a total amount of Rs.5,28,700/-has been collected as fine for a period from 01/08/2025 to 31/08/2025. Thus a total fine of Rs. 1,84,13,693/- had been collected so far in this regard.</p>	NA	

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
E	issuing notice to the defaulters	Kochi Municipal Corporation	4 months	<p>Periodical monitoring by Health squad is going on. About 386 notices had been issued and 258 cases were rectified so far. Consolidated amount of Rs.1,10050/-,Rs.52,030/-, Rs.10010/- had been collected as fine for dumping of septage, waste into water bodies and for dumping plastic for the month of June. An amount of Rs.6, 40,780/- has been collected as fine for littering of waste for only in the month of June. Thus a total fine of Rs. 10,954,580/- had been collected as fine for septage waste management, littering of waste in public places, for illegal using of banned plastic and for illegal outlets as of June 2024.</p>	<p>Periodical monitoring by Health squad is going on. About 404 notices had been issued and the same were rectified so far. An amount of Rs.15,010/- for illegal dumping of septage , Rs.55,020/- for littering of waste at water bodies , Rs.71,140/- for littering of waste at public places, Rs.4,06,150/- for public littering , Rs.26,050/- for waste mismanagement, Rs.40,050/- for burning of waste and thus a total amount of Rs.6,24,980/-has been collected as fine in the month of August as on 27/08/2024.Thus a total fine of Rs. 1,22,39,880/- had been collected as of August 2024</p>	<p>Periodical monitoring by Health squad is going on. About 662 notices had been issued and majority of cases were rectified so far. An amount of Rs.2,11,530/- for public littering , Rs.85,020/- for littering of waste in water bodies, Rs.37,060/- for littering of waste in public places, Rs.30,510/- as fine for waste removal, Rs.42,500/- for waste mismanagement at establishments, shops etc, Rs.37,000/- is collected as eviction fine, Rs.82,080/- is collected as waste collection user fee, Rs.3,000/- is collected as fine for burning of waste at public places, and thus a total amount of Rs.5,28,700/-has been collected as fine for a period from 01/08/2025 to 31/08/2025. Thus a total fine of Rs. 1,84,13,693/- had been collected so far in this regard.</p>		

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SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(a)(iv)	Periodical inspection in the flats, hotels, shops located along the river	Kochi Municipal Corporation	periodical	<p>Periodical monitoring by Health squad is going on. About 386 notices had been issued and 258 cases were rectified so far. Consolidated amount of Rs.1,10050/-,Rs.52,030/-, Rs.10010/- had been collected as fine for dumping of septage, waste into water bodies and for dumping plastic for the month of June. An amount of Rs.6, 40,780/- has been collected as fine for littering of waste for only in the month of June. Thus a total fine of Rs. 10,954,580/- had been collected as fine for septage waste management, littering of waste in public places, for illegal using of banned plastic and for illegal outlets as of June 2024.</p>	<p>Periodical monitoring by Health squad is going on. About 404 notices had been issued and the same were rectified so far. An amount of Rs.15,010/- for illegal dumping of septage , Rs.55,020/- for littering of waste at water bodies , Rs.71,140/- for littering of waste at public places, Rs.4,06,150/- for public littering , Rs.26,050/- for waste mismanagement, Rs.40,050/- for burning of waste and thus a total amount of Rs.6,24,980/-has been collected as fine in the month of August as on 27/08/2024.Thus a total fine of Rs. 1,22,39,880/- had been collected as of August 2024</p>	<p>Periodical monitoring by Health squad is going on. About 662 notices had been issued and majority of cases were rectified so far. An amount of Rs.12,510/- for the disposal of septage at public places and water bodies , Rs.47,520/- for littering of waste in water bodies, Rs.38,000/- for littering of waste in public places, Rs.17,500/- as fine for waste removal, Rs.12,010/- for waste mismanagement at establishments, shops etc, Rs.48,600/- is collected as eviction fine, Rs.88,130/- is collected as waste collection user fee, Rs.10,000/- is collected for as fine for using single use plastic and banned plastic and thus a total amount of Rs. 5,77,380/-has been collected as fine for a period from 01/09/2025 to 31/09/2025. Thus a total fine of Rs. 1,89,91073/- had been collected so far in this regard</p>		

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(b)	Identification of natural drains/thodu reaching river Periyar and cleaning of weeds, grasses etc	Irrigation department	2 years	<p><u>Minor Irrigation.</u> An 8 crore rupee project called Kalamassery with Agriculture is underway.It includes desilting of 40 canals, 7 culverts, and 2 sluices. Desilting of 22 canals has been completed. 80% of the work on the 7 culverts has been finished. Sluice work has not yet started. Desilting of Karumalloor canal is 49% complete.</p> <p><u>Major Irrigation</u> Eerezhachal Punchathodu site has been handed over. As there are complaints from the residents regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation.A letter has also been submitted through the Collectorate. The project includes 218</p>	<p><u>Minor Irrigation.</u> An 8 crore rupee project called Kalamassery with Agriculture is underway.It includes desilting of 40 canals, 7 culverts, and 2 sluices. Desilting of 22 canals has been completed. 80% of the work on the 7 culverts has been finished. Sluice work has not yet started. Desilting of Karumalloor canal is 49% complete.</p> <p><u>Major Irrigation</u> Eerezhachal Punchathodu site has been handed over. As there are complaints from the residents regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation.A letter has also been submitted through the Collectorate. The project includes 218 meters of side protection and 1000 meters</p>	<p><u>Minor Irrigation.</u> An 8 crore rupee project called Kalamassery with Agriculture is underway.It includes desilting of 40 canals, 7 culverts, and 2 sluices. Desilting of 22 canals has been completed. 80% of the work on the 7 culverts has been finished. Sluice work has not yet started. Desilting of Karumalloor canal is 49% complete.</p> <p><u>Major Irrigation</u> Eerezhachal Punchathodu site has been handed over. As there are complaints from the residents regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation.A letter has also been submitted through the Collectorate. The project includes 218 meters of side protection and 1000 meters of desilting.The SE has informed that a report should be submitted to the Collector highlighting the issue of demarcation.</p>		

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SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
C(iii)	Clearing of weeds, grasses at the river bank in order to ensure the smooth flow of water	Irrigation department	3 years	Almost all the works have been completed in the 2024-2025 operation vessel. The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored. The site has been handed over for the project to remove banana plantations	Almost all the works have been completed in the 2024-2025 operation vessel. The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored. The site has been handed over for the project to remove banana plantations from the upstream and	Almost all the works have been completed in the 2024-2025 operation vessel. The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored. The site has been handed over for the project to remove banana plantations from the upstream and downstream areas of the Pathalam regulator. In the first phase, 10%		
D(a)	Maintaining of Minimum flow in river during lean period and periodical operation of Regulators at River in-order to maintain	Irrigation department	3 years	The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not	The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not	The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not been approved. Cleaning works have		
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	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	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		

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(b)	Construction of internal roads and proper drainage in Edayar industrial estate	Industries department		Road drainage works worth Rs. 9.47 crore have been completed in the Edayar Industrial Area under the MSE CDP project. In addition, 48% of the drainage works out of the Rs. 34 lakh allocated to the Public Works Department for the drainage works in the Edayar Industrial Area have been completed. All the works related to the maintenance and repair of the internal road have	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	Road drainage works worth ₹9.47 crore completed under the CDP scheme. 100% of the drainage construction completed for the ₹34 lakh allocated to PWD. All maintenance/repair works for internal roads are complete. PCB and PWD conducted a joint inspection, and a rectification sketch for the drainage system was given to PWD. PWD needs to submit the Feasibility Report to the industrial estate.	100%	
A(b)	Installation of common discharge pipe line at downstream of Pathalam Regulator Bridge	Industries department, Irrigation department	3 years	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."		
E	Installation of Night vision surveillance cameras at the River Bank side	KSPCB	2020	Surveillance cameras and related equipment have been installed	Surveillance cameras and related equipment have been installed	Surveillance cameras and related equipment have been installed	100	

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(a)(iv)	Periodical Monitoring of Eloor, Edayar, Kalamassery Industrial belts	KSPCB	2020	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	100	
A(a)(iv)	Monitoring of quality of water at various intake point	Kerala Water Authority	2020					
A(a)(iv)	Installation of additional continuous online River water monitoring station	KSPCB	2022	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	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	Inspections are being conducted from time to time. The Flow of sewage was not observed during the inspections.	Inspections are being conducted from time to time. The Flow of sewage was not observed during the inspections.	Inspections are being conducted from time to time. The Flow of sewage was not observed during the inspections.	100	
E	Installation of cameras at the waste dumping spots	Kadungallur Panchayath	2020	38 cameras installed Internet connection has been received, Live visuals are monitored and actions taken for violations if any	38 cameras installed Internet connection has been received, Live visuals are monitored and actions taken for violations if any	38 cameras installed Internet connection has been received, Live visuals are monitored and actions taken for violations if any	100	NIL
A(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Choornikkara Panchayath	2020	Inspection is being conducted. Waste dumping fine:- January - 1,1000/- February- 7000/- March- 25,000/-	Inspection is being conducted. Waste dumping fine:- January - 1,1000/- February- 7000/- March- 25,000/-	Inspection is being conducted. Waste dumping fine:- January - 1,1000/- February- 7000/- March- 25,000/-		

ACTION PLAN FOR RIVER PERIYAR, KERALA								
SHORT TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
	Installation of cameras at the waste dumping spots	Choomikkara Panchayath	2020	53 cameras have been installed. 13 more will be installed by KMRL CSR. sent for government approval.	56 cameras have been installed. 13 more will be installed using KMRL CSR funds.	57 cameras have been installed. 13 more will be installed using KMRL CSR funds.		
LONG TERM MEASURES								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025		
A(b)	Construction of walkway, ring roads etc at the Periyar River bank at industrial belt.	Irrigation department	4 years	FS has been received for Soil Investigation work. Rs. 92,000/- has been deposited for survey work. Survey work investigation for the surveillance road and dyke wall started on 06/03/2025. 730m has been completed and	Soil investigation work for the surveillance road and dyke wall at Eloor-Muppathadam industrial area (right bank) is complete. Surveying is ongoing: 730 m of the 1.20 km length has surveyed. been The Irrigation Design	Soil investigation work for the surveillance road and dyke wall at Eloor-Muppathadam industrial area (right bank) is complete. Surveying is ongoing: 730 m of the 1.20 km length has surveyed. been The Irrigation Design		
C(i)	Fencing of the river banks along the stretches of waste disposal (Edamula stretch)	Cochin Municipal Corporation	1-2 years	Fencing works have been included in the budget.	cameras , which are being installed in 24 Smart City wards. A proposal for 40 AI cameras for water body and waste dumping monitoring has been presented to the committee.	cameras , which are being installed in 24 Smart City wards. A proposal for 40 AI cameras for water body and waste dumping monitoring has been presented to the committee.		
C(iii)	Beautification of the river stretches (Edamula stretch)	Cochin Municipal Corporation	1-2 years	Beautification works are being carried out using own funds.				
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 July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining

ACTION PLAN FOR RIVER PERIYAR, KERALA

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

National Mission for Clean Ganga

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 July 2025	Progress in the month Of August 2025	Progress in the month Of September 2025	% 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	The committee observed that there has been no time-bound progress in the renovation of the STP at Advaitashram. As part of the renovation, the entire mechanical machinery of the STP needs to be replaced. The estimate has been recast accordingly. The electrical and civil works are almost complete. The mechanical work has been re-tendered and the work order has been issued. The work will commence immediately. Steps are being taken to obtain the PCB (Pollution Control Board) consent for the STP. The committee instructed that all these tasks should be completed at the earliest.	No progress in renovation observed. The mechanical machinery needs complete replacement. The estimate was recast . Civil work is almost complete. The tender for mechanical work was re-issued, and the work order will be issued soon. Steps are being taken to obtain PCB consent . Committee suggested speeding up completion.	No progress in renovation observed. The mechanical machinery needs complete replacement. The estimate was recast . Civil work is almost complete. The tender for mechanical work was re-issued, and the work order will be issued soon. Steps are being taken to obtain PCB consent . Committee suggested speeding up completion.		
(b)	Augmentation and Revamping of existing STP at Aluva Market and to	Aluva Municipality	2021	PMSSY has received administrative approval of Rs 48 crore for the reconstruction of Aluva General Market and DPR has been prepared. The reconstruction of the market also includes a high-capacity ETP. Since the high-capacity ETP is being established,	₹48 crore administrative sanction for market reconstruction under PMSSY obtained, and DPR prepared. Reconstruction includes a higher capacity ETP (IMLD) ; the lower capacity ETP proposed for the fish market will be omitted. An application	₹48 crore administrative sanction for market reconstruction under PMSSY obtained, and DPR prepared. Reconstruction includes a higher capacity ETP (IMLD) ; the lower capacity ETP proposed for the fish market will be omitted. An application		

	increase the capacity of STP so as to treat more sewage generated in the municipality			the proposal for a low-capacity ETP proposed only for the fish market will be discarded. submitted an application for Consent to Establish, - for the construction work of the market. The work will be completed within a year.The inauguration of the Hi-Tech Market was held on June 29. The DPR includes STP and ETP.	for "Consent to Establish" for the construction was submitted to the Board. The inauguration of the Hi-tech Market is over; ETP, STP, are included in DPR.	for "Consent to Establish" for the construction was submitted to the Board. The inauguration of the Hi-tech Market is over; ETP, STP, are included in DPR.		
(b)	Discharge of sewage from township to the River through drain near Periyar Hotel shall be stopped.	Aluva Municipality	2020	For inspection purposes, special squads have been formed for the canals and drains. Inspections have been conducted at outlets leading to canals and also towards the Periyar River, and fines are being imposed. The committee suggested that illegal discharge points should be identified and that the discharge of wastewater into public drains must be reduced. It was also instructed that a monthly report must be submitted every month. The SE (Superintending Engineer) stated that action should be taken against those who repeatedly pay fines.	A special squad was formed and conducts regular inspections, collecting fines at outlets to canals/streams/Periyar.	A special squad was formed and conducts regular inspections, collecting fines at outlets to canals/streams/Periyar.		
(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging	Aluva Municipality, KSPCB	2020	For inspection purposes, special squads have been formed for the canals and drains. Inspections have been conducted at outlets leading to canals and also towards the Periyar River, and fines are being imposed. The committee suggested that illegal discharge points should be identified and that the discharge of wastewater into public drains must be	A special squad was formed and conducts regular inspections, collecting fines at outlets to canals/streams/Periyar.	A special squad was formed and conducts regular inspections, collecting fines at outlets to canals/streams/Periyar.		

	the sewage to the public drain and to collect fine based on polluter pay principle			reduced. It was also instructed that a monthly report must be submitted every month. The SE (Superintending Engineer) stated that action should be taken against those who repeatedly pay fines.				
(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 approval was obtained in the Council meeting held on 12.07.2024 to invite an Expression of Interest (EOI) for the construction of a modern slaughterhouse and for the preparation of its DPR, and that further steps are being taken. This has already been included in the DPR for the new General Market. The Pollution Control Board (PCB) has informed that an ICE (Integrated Consent to Establish) application must be submitted for the construction of the slaughterhouse. Since a residential building is located just 7.5 meters away, approval has not been obtained from the Town Planning Department. In this regard, direct approval from the government will be required.	Council approval received on 12.07.2024 for preparing the DPR and inviting tender. This is included in the DPR for the new General Market. PCB directed to submit an application for ICE for construction. Approval from the Town Planning Department is withheld because a house is 7.5 m away; direct government approval is needed	Council approval received on 12.07.2024 for preparing the DPR and inviting tender. This is included in the DPR for the new General Market. PCB directed to submit an application for ICE for construction. Approval from the Town Planning Department is withheld because a house is 7.5 m away; direct government approval is needed		

(b)	Procurement of sewer cleaning machines and equipment maintenance	Aluva Municipality	March 2020	The clearing operations of the drains are being carried out every day. JCB, Hitachi etc. are being used on an annual contract basis. Equipment for clearing the 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 dumped), 66 cameras have been installed. All are working. Rs. 15 lakh has been allocated for installing new cameras. They will be installed in this financial year. Details of fines, which were collected in 2025 Illegal Outlet: 60000/- Illegal Dumping: 10000/- Single use Plastic: Rs.10,000/-	66 cameras installed and functional for monitoring dumping sites. ₹15 lakhs allocated for new cameras to be installed this financial year. Fine collected (2025): Illegal Outlet: ₹60,000/- ; Illegal Dumping: ₹10,000/- ; Single-use Plastic: ₹10,000/- .	66 cameras installed and functional for monitoring dumping sites. ₹15 lakhs allocated for new cameras to be installed this financial year. Fine collected (2025): Illegal Outlet: ₹60,000/- ; Illegal Dumping: ₹10,000/- ; Single-use Plastic: ₹10,000/- .		
	Construction of STP and FSTP	Aluva Municipality		It has been informed that the Water Authority's DPR and Sanitation Mission funds are available. However, land is not available.	DPR available with the Water Authority, and funds from the Suchitwa Mission are available. However, land acquisition is the current obstacle .	DPR available with the Water Authority, and funds from the Suchitwa Mission are available. However, land acquisition is the current obstacle .		
(b)	Construction of retaining wall with HDPE liner at Kalamassery dumping yard in order to prevent the leachate discharge from	Kalamassery Municipality	Sept 2019	The construction of the dumping yard retaining wall has been completed. The construction of the compound wall has been completed. The STP will be installed immediately after the biomining. The biomining has started, completed 45 %	The construction of the dumping yard retaining wall has been completed. The construction of the compound wall has been completed. The STP will be installed immediately after the biomining. The biomining has started, completed 45 %	The construction of the dumping yard retaining wall has been completed. The construction of the compound wall has been completed. The STP will be installed immediately after the biomining. The biomining has started, completed 45 %	100%	

	the yard to Thoombungal Thodu							
(ii)	Installation of plastic shredding unit	Kalamassery Municipality	June 2019	A plant has been set up and is functioning. The scraps are being transported by CKCL. It was informed that this is being transported to the Palakkad cement factory.	A plant has been set up and is functioning. The scraps are being transported by CKCL. It was informed that this is being transported to the Palakkad cement factory.	A plant has been set up and is functioning. The scraps are being transported by CKCL. It was informed that this is being transported to the Palakkad cement factory.	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 is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It is not possible to install cameras on NAD roads as NAD has control over them.collaborating with the KSWMP project to prepare an IEC plan. As part of this, the decision to provide drainage and awareness classes has been included in this year's plan.	A squad has been formed and is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It is not possible to install cameras on NAD roads as NAD has control over them.collaborating with the KSWMP project to prepare an IEC plan. As part of this, the decision to provide drainage and awareness classes has been included in this year's plan.	A squad has been formed and is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It is not possible to install cameras on NAD roads as NAD has control over them.collaborating with the KSWMP project to prepare an IEC plan. As part of this, the decision to provide drainage and awareness classes has been included in this year's plan.	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 works will be completed within 2 months of renovating the market and after completing the biomining, the STP will be installed at the site of the existing dumping yard. The proposal for 2 new STPs has been sent to the DPC. The work of renovating the market is 80% complete.It has been decided to include the construction of the STP as a new project in this year's plan.	The work of renovating the existing ETP in the market has not started. The works will be completed within 2 months of renovating the market and after completing the biomining, the STP will be installed at the site of the existing dumping yard. The proposal for 2 new STPs has been sent to the DPC. The work of renovating the market is 80% complete.It has been decided to include the construction of the STP as a new project in this year's plan.	The work of renovating the existing ETP in the market has not started. The works will be completed within 2 months of renovating the market and after completing the biomining, the STP will be installed at the site of the existing dumping yard. The proposal for 2 new STPs has been sent to the DPC. The work of renovating the market is 80% complete.It has been decided to include the construction of the STP as a new project in this year's plan.	N/A	

(a)(iv)	Monitoring and surveillance of industries in Kalamassery Industrial Estate in order to prevent unauthorized discharges to Muttar River	KSPCB	2019	<p>Inspection is underway. Currently, there is a possibility of wastewater from the market reaching the river. This issue can be resolved through the renovation of the market.</p> <p>The PCB Executive Engineer (EE) also informed that a letter was sent to the Municipality referring to the low DO (Dissolved Oxygen) levels found in the water samples collected on June 2 from Thumbunkal stream and the Puthalam kadavu in the Edamula branch of the Periyar River. However, no response has been received yet.</p>				
(ii)	Installation of modern abattoirs including poultry and meat rendering plants.	Kalamassery Municipality, Industries Department (for land allotment)	2021	There is no progress due to the lack of space.	There is no progress due to the lack of space.	There is no progress due to the lack of space.	N A	
(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the	Kalamassery Municipality	2020	<p>A fine of Rs. 22,36,940/- has been collected so far for dumping waste and discharging sewage.</p> <p>Waste dumping fine :</p> <p>February- Rs. 110,000/-</p> <p>March - Rs 101,500/-</p>	<p>A fine of Rs. 22,36,940/- has been collected so far for dumping waste and discharging sewage.</p> <p>Waste dumping fine :</p> <p>February- Rs. 110,000/-</p> <p>March - Rs 101,500/-</p>	<p>A fine of Rs. 22,36,940/- has been collected so far for dumping waste and discharging sewage.</p> <p>Waste dumping fine :</p> <p>February- Rs. 110,000/-</p> <p>March - Rs 101,500/-</p>	N A	

	sewage to the public drain							
	Installation of cameras at the waste dumping spots	Kalamassery Municipality	2020	84 cameras have been installed, 2 each in 42 wards. Work is underway to get visuals. internet connection has not been received.It will be resolved within 1 month.	84 cameras have been installed, 2 each in 42 wards. Work is underway to get visuals. internet connection has not been received.It will be resolved within 1 month.	Keltron cameras have been installed in the vicinity of the aerobic bin near the HIL company where the waste was stored and in the vicinity of the bin near the Manjummal Arattukadavu. In addition, in the 2023-24 plan, funds have been allocated for installing cameras in various areas of the municipality and accordingly, 84 cameras have been installed under 2 projects (Rs. 40,00,000/-). Fine collected in the month of September- Rs. 27,500/-		
(b)	Identification of sources of sewage discharged to drain near Pathalam bridge and action to stop the discharge which reach river Periyar from hotels, labor camps etc In case the quantity of sewage	Eloor Municipality, KSPCB (for monitoring)	2020	Inspections are being conducted from time to time. Arrangements have been made to drain the sewage discharged from shopping complexes, shops, etc. into the soak pit. The problem has been resolved. The sewage from the places where foreign workers live near the bridge and from catering units has been inspected and notices have been issued to 4 institutions to construct soak pits. A meeting will be called to ensure that the catering units have PCB licenses. Action will be taken against the hotel institutions that have caused sewage to reach the Kuzhikandam stream. Action is being taken. Cases have been	Inspections are conducted.Arrangements have been made to drain the sewage discharged from shopping complexes, shops, etc. into the soak pit. Notice was given to 4 institutions (migrant workers' housing, catering units) to construct soak pits. A meeting will be called to ensure catering units have a PCB license . Action will be taken against hotel establishments that caused sewage to flow into the Kuzhikkandam stream . A case has been filed against establishments discharging waste into the river. Fine collected: ₹35,500/- and ₹1,01,000/- .	Inspections are being conducted from time to time. No discharge of waste was observed during the inspection.		

	generated is assessed to be more STP need to be installed			filed against establishments discharging waste into the river. Fine details: June - Rs. 35,500/- May - Rs. 1,01,000/-				
	Installation of cameras at the waste dumping spots	Eloor Municipality	2020	84 cameras have been installed. All are working. Fines are being collected. Keltron cameras have been installed around the aerobic bin near the HIL company where waste was dumped, and around the bin near Manjummel Arattukadavu.	84 cameras installed and functional; fines are being collected. Cameras installed by Keltron near the aerobic bin (HIL company) and near Manjummel Aarattukadavu .	84 cameras installed and functional; fines are being collected. Cameras installed by Keltron near the aerobic bin (HIL company) and near Manjummel Aarattukadavu .		
(a)(iv)	Periodical inspection in the Industries, Flats, hotels for monitoring of STP,ETP located in Cochin corporation	KSPCB	periodical					
(a)	Inventory of sources of pollution through a rapid study/Study for identification of pollution sources at Edapally thodu	Kochi Municipal Corporation	3 months	A squad has been formed with Engineering & Health to find the sources of sewage discharge. 4 squads are conducting regular inspections. Desilting and water hyacinth removal work is underway. Night squad is conducting inspections. A special squad regarding septage is conducting inspections. Fine collected details From 01/03/2025 to 31/03/2025, a total	A squad of Engineering & Health conducts regular inspections to identify sewage sources. Desilting works for 2024 are complete; works for 2025-2026 are ongoing. Night and special septage squads conduct inspections. Fine collected from 01/03/2025 to 31/03/2025 totaled ₹6,25,696/- . Notices were sent regarding sewage discharge.	A squad of Engineering & Health conducts regular inspections to identify sewage sources. Desilting works for 2024 are complete; works for 2025-2026 are ongoing. Night and special septage squads conduct inspections. Fine collected from 01/03/2025 to 31/03/2025 totaled ₹6,25,696/- . Notices were sent regarding sewage discharge.		

				of Rs. 6,25696/- fine was collected.				
(a)(iv)	Periodical inspection in the flats, hotels, shops located along the river	Kochi Municipal Corporation	periodical	Notices have been sent to 5 institutions regarding the discharge of sewage. A thorough inspection is being carried out in the institutions near the river. A total of 23 notices have been sent in the month of March. All of them have been rectified. The PCB has instructed to specify what the violations for issuing the notices are.	Periodical monitoring by Health squad is going on. About 662 notices had been issued and majority of cases were rectified so far. An amount of Rs.2,11,530/- for public littering Rs.85,020/- for littering of waste in water bodies, Rs.37,060/- for littering of waste in public places, Rs.30,510/- as fine for waste removal, Rs.42,500/- for waste mismanagement at establishments, shops etc, Rs.37,000/- is collected as eviction fine, Rs.82,080/- is collected as waste collection user fee, Rs.3,000/- is collected as fine for burning of waste at public places and thus a total amount of Rs.5,28,700/-has been collected as fine for a period from 01/08/2025 to 31/08/2025. Thus a total fine of Rs. 1,84,13,693/- had been collected so far in this regard.	Periodical monitoring by Health squad is going on. About 662 notices had been issued and majority of cases were rectified so far. An amount of Rs.2,11,530/- for public littering Rs.85,020/- for littering of waste in water bodies, Rs.37,060/- for littering of waste in public places, Rs.30,510/- as fine for waste removal, Rs.42,500/- for waste mismanagement at establishments, shops etc, Rs.37,000/- is collected as eviction fine, Rs.82,080/- is collected as waste collection user fee, Rs.3,000/- is collected as fine for burning of waste at public places and thus a total amount of Rs.5,28,700/-has been collected as fine for a period from 01/08/2025 to 31/08/2025. Thus a total fine of Rs. 1,84,13,693/- had been collected so far in this regard.		
(b)	Identification of natural drains/thodu reaching river Periyar and cleaning of weeds, grasses etc	Irrigation department	2 years	<u>Minor Irrigation.</u> An 8 crore rupee project called Kalamassery with Agriculture is underway.It includes desilting of 40 canals, 7 culverts, and 2 sluices. Desilting of 22 canals has been completed. 80% of the work on the 7 culverts has been	<u>Minor Irrigation.</u> An 8 crore rupee project called Kalamassery with Agriculture is underway.It includes desilting of 40 canals, 7 culverts, and 2 sluices. Desilting of 22 canals has been completed. 80% of the work on the 7 culverts has been	<u>Minor Irrigation.</u> An 8 crore rupee project called Kalamassery with Agriculture is underway.It includes desilting of 40 canals, 7 culverts, and 2 sluices. Desilting of 22 canals has been completed. 80% of the work on the 7 culverts has been		

				<p>finished. Sluice work has not yet started. Desilting of Karumalloor canal is 49% complete.</p> <p><u>Major Irrigation</u> Eerezhachal Punchathodu site has been handed over. As there are complaints from the residents regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation. A letter has also been submitted through the Collectorate. The project includes 218 meters of side protection and 1000 meters of desilting. The SE has informed that a report should be submitted to the Collector highlighting the issue of demarcation.</p> <p>1. Kuthuthode</p> <p>(IRR/IA/EST/8495/2022-5-8-7)</p> <p>Rs. 74.40 lakh It has been taken up under the Operation vessel. The initial phase of the desilting work has commenced. It was informed that the work will proceed depending on a reduction in rainfall.</p>	<p>finished. Sluice work has not yet started. Desilting of Karumalloor canal is 49% complete.</p> <p><u>Major Irrigation</u> Eerezhachal Punchathodu site has been handed over. As there are complaints from the residents regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation. A letter has also been submitted through the Collectorate. The project includes 218 meters of side protection and 1000 meters of desilting. The SE has informed that a report should be submitted to the Collector highlighting the issue of demarcation.</p> <p>Kuthuthode</p> <p>(IRR/IA/EST/8495/2022-5-8-7)</p> <p>Rs. 74.40 lakh It has been taken up under the Operation vessel. The initial phase of the desilting work has commenced. It was informed that the work will proceed depending on a reduction in rainfall.</p>	<p>finished. Sluice work has not yet started. Desilting of Karumalloor canal is 49% complete.</p> <p><u>Major Irrigation</u> Eerezhachal Punchathodu site has been handed over. As there are complaints from the residents regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation. A letter has also been submitted through the Collectorate. The project includes 218 meters of side protection and 1000 meters of desilting. The SE has informed that a report should be submitted to the Collector highlighting the issue of demarcation.</p> <p>Kuthuthode</p> <p>(IRR/IA/EST/8495/2022-5-8-7)</p> <p>Rs. 74.40 lakh It has been taken up under the Operation vessel. The initial phase of the desilting work has commenced. It was informed that the work will proceed depending on a reduction in rainfall.</p>		
(iii)	Clearing of weeds, grasses at the river	Irrigation department	3 years	<p>Almost all the works have been completed in the 2024-2025 operation vessel.</p>	<p>Almost all the works have been completed in the 2024-2025 operation vessel.</p>	<p>Almost all the works have been completed in the 2024-2025 operation vessel.</p>		

	bank in order to ensure the smooth flow of water			<p>The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored.</p> <p>The site has been handed over for the project to remove banana plantations from the upstream and downstream areas of the Pathalam regulator. In the first phase, 10% of the work has been completed. Currently, the banks of the Pathalam and Manjummel rivers are clean.</p>	<p>The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored.</p> <p>The site has been handed over for the project to remove banana plantations from the upstream and downstream areas of the Pathalam regulator. In the first phase, 10% of the work has been completed. Currently, the banks of the Pathalam and Manjummel rivers are clean.</p>	<p>The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored.</p> <p>The site has been handed over for the project to remove banana plantations from the upstream and downstream areas of the Pathalam regulator. In the first phase, 10% of the work has been completed. Currently, the banks of the Pathalam and Manjummel rivers are clean.</p>		
(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	<p>The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not been approved. Cleaning works have been arranged for a period of one year. Currently, all areas are free from waste.</p>	<p>The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not been approved. Cleaning works have been arranged for a period of one year. Currently, all areas are free from waste.</p>	<p>The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not been approved. Cleaning works have been arranged for a period of one year. Currently, all areas are free from waste.</p>		
(b)	Common Effluent Treatment Plant at Edayar Industrial Estate	Industries department	2022	<p>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</p>	<p>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</p>	<p>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</p>		

				effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	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 Rs. 9.47 crore have been completed in the Edayar Industrial Area under the MSE CDP project. In addition, 48% of the drainage works out of the Rs. 34 lakh allocated to the Public Works Department for the drainage works in the Edayar Industrial Area have been completed. All the works related to the maintenance and repair of the internal road have been completed. Joint inspection in collaboration with PCB and PWD conducted. Detailed sketch of the industrial estate was given to the concerned department for doing required rectification in drainage works. The feasibility report needs to be submitted to the PWD.	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.	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.		
(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	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	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."	project."	project."		
	Installation of Night vision surveillance cameras at the River Bank side	KSPCB	2020	Surveillance cameras and related equipment have been installed	Surveillance cameras and related equipment have been installed	Surveillance cameras and related equipment have been installed	1 0 0	
(a)(iv)	Periodical Monitoring of Eloor, Edayar, Kalamassery Industrial belts	KSPCB	2020	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	1 0 0	
(a)(iv)	Monitoring of quality of water at various intake point	Kerala Water Authority	2020					
(a)(iv)	Installation of additional continuous online River water monitoring station	KSPCB	2022	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	1 0 0	
(b)	Identification of the establishments/commercial complexes/flats /houses/hotels etc who is discharging the sewage to the	Kadungallur Panchayath	2020	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	5 0 %	

A(b)	Construction of walkway, ring roads etc at the Periyar River bank at industrial belt.	Irrigation department	4 years	FS has been received for Soil Investigation work. Rs. 92,000/- has been deposited for survey work. Survey work started on 06/03/2025. 730m has been completed and another 470m survey work will be completed within a week. Design work is also in progress. The design from IDRB is available. The survey is currently in progress.	Soil investigation work for the surveillance road and dyke wall at Eloor-Muppathadam industrial area (right bank) is complete. Surveying is ongoing: 730 m of the 1.20 km length has been surveyed. The Irrigation Design and Research Board has designed the dyke wall, but the DPR can only be prepared after the entire survey is complete	Soil investigation work for the surveillance road and dyke wall at Eloor-Muppathadam industrial area (right bank) is complete. Surveying is ongoing: 730 m of the 1.20 km length has been surveyed. The Irrigation Design and Research Board has designed the dyke wall, but the DPR can only be prepared after the entire survey is complete		
C(i)	Fencing of the river banks along the stretches of waste disposal (Edamula stretch)	Cochin Municipal Corporation	1-2 years	Fencing works have been included in the budget. Beautification works are being carried out using own funds.	Fencing work for the Aryanpadam canal is in the budget. Permission granted for only 40 cameras , which are being installed in 24 Smart City wards. A proposal for 40 AI cameras for water body and waste dumping monitoring has been presented to the committee.	Fencing work for the Aryanpadam canal is in the budget. Permission granted for only 40 cameras , which are being installed in 24 Smart City wards. A proposal for 40 AI cameras for water body and waste dumping monitoring 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	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					

ACTION PLAN FOR RIVER CHITHRAPUZHA, KERALA

SHORT TERM MEASURES

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
(1) Drain joining Chithrapuzha (near Brahmapuram dumping yard) (Near FACT CD)								
C (ii)	Restricting seepage of leachate of plastic dumped in the dumping yard-Bio-mininig	Kochi Corporation	3 years	About 7.32 lakh MT waste excavation, turning and stabilisation completed and approximately 6.49 MT dispatch completed. Approximately 732895 MT waste processing completed as on 31-07-2025. About 178866.33 MT RDF dispatched to ACC Limited (Wadi Cement Works), Dalmia Cement LTD, and to JK Cement Works, Karnataka as on 31-07-2025. About 93196.51 MT of C&D and inert filling for road making and about 367104.90 MT of 6mm-30mm fraction filling for road making is dumped in the low line area of Brahmapuram dumpsite, and the same is utilising for road making. About 298.88 MT recyclable (shoes sample) was dispatched. Approximately 92.8% dispatch completed. 7.2% dispatch is to be completed and the time line fixed for the completion of the said project is 16 months. An approximate of 21 acres of land was reclaimed by Bio-mining process.	About 7.48 lakh MT waste excavation, turning and stabilisation completed and approximately 6.59 MT dispatch completed. Approximately 748655 MT waste processing completed as on 09-09-2025. About 183049.51 MT RDF dispatched to ACC Limited (Wadi Cement Works), Dalmia Cement LTD, and to JK Cement Works, Karnataka as on 09-09-2025. About 95938.84 MT of C&D and inert filling for road making and about 369862.63 MT of 6mm-30mm fraction filling for road making is dumped in the low line area of Brahmapuram dumpsite, and the same is utilising for road making. About 312.06 MT recyclable (shoes sample) was dispatched. Approximately 94.15% dispatch completed. 5.85% dispatch is to be completed and the time line fixed for the completion of the said project is 16 months. An approximate of 21 acres of land was reclaimed by Bio-mining process.	About 7.58 lakh MT waste excavation, turning and stabilisation completed and approximately 6.67 MT dispatch completed. Approximately 758015 MT waste processing completed as on 08-10-2025. About 184684.91 MT RDF dispatched to ACC Limited (Wadi Cement Works), Dalmia Cement LTD, and to JK Cement Works, Karnataka as on 08-10-2025. About 96068.49 MT of C&D and inert filling for road making and about 376463.27 MT of 6mm-30mm fraction filling for road making is dumped in the low line area of Brahmapuram dumpsite, and the same is utilising for road making. About 321.58 MT recyclable (shoes sample) was dispatched. Approximately 95.3% dispatch completed. 4.7% dispatch is to be completed and the time line fixed for the completion of the said project is 16 months. An approximate of 21 acres of land was reclaimed by Bio-mining process.	96.5% work completed	3.5% dispatch remaining
Aa (iv)	Effluent monitoring from FACT	KSPCB	Periodical					
Aa (iv)	Periodical Monitoring	KSPCB	Periodical					
(2) Drain from Cochin Refinery area								
Aa (iv)	Surveillance to restrict the dumping of wastes into the river and its branches	Vadavucode – Puthencruz Panchayat with the help of Police	Periodical		Periodical monitoring going on and Rs.5000 is imposed till the date.	Periodical monitoring going on and Rs.5000 is imposed till the date.		

ACTION PLAN FOR RIVER CHITHRAPUZHA, KERALA

SHORT TERM MEASURES

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(b)	Sanitation Survey	Vadavucode – Puthencruz Panchayat	3 months	completed	306 biogas &374 biobins distributed.	306 biogas &374 biobins distributed.	100	
E	Periodical Cleaning of Chithrapuzha	Irrigation Department	Twice in 3 years		A new proposal has been submitted for the periodic cleaning of the Chithrapuzha, from Mamala to the Champakkara Canal. A letter was also submitted to higher ups on 28.07.2025, requesting immediate sanction for the work, as per the instructions given in the last DLTC meeting (dated 08.07.2025).			
	Already implemented Effluent Treatment facility in Cochin Refinery and periodical monitoring are ongoing	KSPCB						
(3) Athikkayi branch (Provided temporary bund in joining section to check salinity intrusion)								
A(b)	Identification of major pollution causing units(Apartm ents, hospitals, service stations,	Thrikkakkara Municipality KSPCB	3 months	periodical inspection for 2 days and issued 4 notices	periodical inspection for 6 days and issued 5 notices	periodical inspection for 5 days and issued 12 notices		
Aa(iv)	Surveillance to restrict the dumping of wastes into the river and its branches	Thrikkakkara Municipality with the help of Police	Periodical Monitoring		field survey completed and spot identified	Agreement executed and work started	10%	camera installation
Aa(iv)	Periodical Monitoring	KSPCB	Periodical					
A(b)	Sanitation Survey	Thrikkakara Municipality	6 months			70% Completed		
E	Periodical Cleaning	Irrigation Department	Once in a year					
(4) Drain joining Chithrappuzha from CSEZ (Chittethukara)								
A(b)	Ensure proper functioning of ETP in CSEZ	KSPCB	Periodical					
A(b)	Sanitation Survey and periodical cleaning	Thrikkakara Municipality	6 months			Survey 70% Competed and Periodical cleaning ongoing		
Aa(iv)	Periodical Monitoring	KSPCB	Periodical					
(5) Vettuvelikkadavu (Konothupuzha joining Chithrappuzha)								
A(b)	Identifying and closing of all unauthorized outlets into the stream joining the river	Thripunithura Municipality	6 months	0	Rs.45000 for outlet closing (01.01.2025 to 31.07.2025)	Rs.55000 for outlet closing (01.01.2025 to 28/10/2025)		

ACTION PLAN FOR RIVER CHITHRAPUZHA, KERALA

SHORT TERM MEASURES

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
A(b)	Sanitation Survey	Thripunithura Municipality	3 months	92	94	100	100	
Aa(iv)	Periodical Monitoring	KSPCB	Periodical					
C(ii)	Surveillance to restrict the dumping of wastes into the river and its branches	Thripunithura Municipality with the help of Police	6 months	Already installed 22 cameras installed in various dumping places	Already installed 22 cameras and In that 10 are AI cameras	project has been taken for installation of another 14 cameras	65%	project has been taken for installation of another 14 cameras
E	Cleaning of Konothupuzha (work Proposal already submitted by Minor Irrigation)	Irrigation Department (Minor Irrigation)	8 months	1.4	Action initiated as per OA 237/2017. Administrative sanction for "Rejuvenation of Konothupuzha from Puthencavu to Vettuvelilkadavu for 17 Km in Ernakulam district - Phase I" was accorded for Rs. 1800 Lakhs vide GO. (Rt) No. 118/2023/WRD dated 30.01.2023. The work was tendered on 08.10.2024 from Office of the Superintending Engineer, Minor Irrigation Central Circle, Ernakulam. The work was awarded to the Contractor and agreement for the work was executed on 06.03.2025 and the site was handed over to the contractor on 12.03.2025. Presently the water weed removal has been completed for a length of 13 Km and is processing.	Presently the water weed removal has been completed for a length of 17 Km. The desiltation of Konothupuzha for initial 6.120 Km is progressing simultaneously. ie, near Puthenkavu regulator, near Mattathankadavu bridge. W.r.t the meeting held on 16.09.2025 of ADM, Ernakulam it was decided to start the demarcation process after collecting the respective FMB sketches of villages in connection with the Konothupuzha Rejuvenation and the boundary demarcation is progressing.	13.54	desilatation, bund formation, laying of geotextiles, constructoin of ghats
Main Stretch (Kadambayar-Chithrappuzha Confluence point to Irumpanam)								
E	Periodic Cleaning	Irrigation Department	Once in a year					
		Vadavucode -Puthercruz with the help of Police	Periodi cal Monito ring	10000/- Rs fine imposed for dumping waste	7500/- fine imposed for dumping waste	7500/- fine imposed for dumping waste		
C(ii)	Surveillance to restrict the dumping of wastes into the river	Thripunithura Municipality with the help of Police	6 months	Already installed 22 cameras installed in various dumping places	Already installed 22 cameras and In that 10 are AI cameras	project has been taken for installation of another 14 cameras	65%	project has been taken for installation of another 14 cameras

ACTION PLAN FOR RIVER CHITHRAPUZHA, KERALA

SHORT TERM MEASURES

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
Aa(iv)	River water quality monitoring	KSPCB	Ongoing; monthly frequency					
A(b)	Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc	KSPCB	Ongoing					
C(ii)	Survivance of restrict dumping of waste to the river, Sanitation survey (with the help of Police)	Vadavukad Puthenkruze Panchayath	6 months					

LONG TERM MEASURES

No. (as per Action Plan)	Activity	Time line		Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
E	Provide inspection bund for Chithrapuzha	3 years			No Progress reported. This work is included in the Development Package and has not been approved yet. The Irrigation Department sent a letter to the Tahsildars of Kanayannur and Kunnathunadu to demarcate the boundaries of the proposed area. The Tahsildar of Kanayannur responded, and based on that, a letter was given to the Village Officer of Kakkanad for further action. Also a request has been submitted again to Hon'ble District Collector Ernakulam vide letter No.D1-803/Chpkra/2023 dated 07.08.2025. Once the proposed area is fully demarcated, the estimate for the Development Package can be finalized and submitted.			
A(b)	Additional STP requirement (if needed)	3 years	No					

ACTION PLAN FOR RIVER CHITHRAPUZHA, KERALA

SHORT TERM MEASURES

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
	Restriction of illegal dumping of Septage in to the river							
	Flood Plain Zone(Management and Protection) Preparation of Inundation maps	3 years						

ACTION BY GROUND WATER DEPARTMENT

Sl. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018			Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1	B(i)							
2	B(ii)							
3	B(iii)							
4	B(iv)							

ACTION PLAN FOR RIVER KADAMBRAYAR, KERALA

SHORT TERM MEASURES

Short term plan

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1	<u>(2) Manakkakkadavu</u>							
<u>2.1.2 C(ii)</u>	Surveillance to restrict the dumping of wastes into river and its branches	Kunnathunadu Panchayat and with the help of Police	As the post of the Panchayat president is vacant at present, the officials informed that fund for surveillance can be intimated only after the President has been elected	installed camera at Manakkakkadavu bridge is operational	Installed camera is operational. No waste disposal activities were noted by the squad.	Installed camera is operational. No waste disposal activities were noted by the squad.	Completed	Nil
2	<u>(4) Canal joining Kadambrayar near Infopark Phase II</u>							
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
<u>2.2.1E</u>	Cleaning of thodu	Kerala Irrigation Department & Vadavucode – Puthencruz Panchayat	<u>6 months</u> <u>6 months</u>	Canal cleaning is carried out annually before the commencement of water distribution under the Periyar Valley Irrigation Project. However, this section can be omitted as the project does not fall within the scope of the DLTC	Canal cleaning is carried out annually before the commencement of water distribution under the Periyar Valley Irrigation Project. However, this section can be omitted as the project does not fall within the scope of the DLTC.	Canal cleaning is carried out annually before the commencement of water distribution under the Periyar Valley Irrigation Project. However, this section can be omitted as the project does not fall within the scope of the DLTC.	Completed	
<u>2.2.3 C(ii)</u>	Surveillance to restrict the dumping of wastes into river and its branches	Vadavucode – Puthencruz Panchayat with the help of Police	<u>2 months</u>	<u>Kooliyatt thodu cleaning completed</u> <u>Kuzhiyanji padam cleaning ongoing</u>	<u>Kuzhiyanji padam cleaning ongoing</u>	<u>Kuzhiyanji padam cleaning ongoing</u>	<u>95 percentage completed</u>	
<u>Main Stream (Manakkadavu to Kadambrayar-Chithrappuzha Confluence point) (Provided temporary bund (Kozhichira Bund) in Kadambrayar-Chithrappuzha joining section to check salinity intrusion)</u>								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining

A(b)	Provide proper facilities for restricting the seepage of leachate	Kochi Corporation		<p>At present M/s Sigma Global Enviro Solutions Private Ltd is processing 25 TPD waste and M/s Fabco Bio Cycle & Bio Protein Technology Private Ltd is processing 50 TPD of waste. Regarding the operation, M/s Zigma Global Enviro Solutions Private Ltd has processed 10705799.53 Kilo gram Waste and an amount of Rs.2,15,91,234/- has been paid to them till the date and M/s Fabco Bio Cycle & Bio Protein Technology Private Ltd has processed 18203700 Kilo gram Waste and an amount of Rs.4,00,48,333/- has been paid to them till the date.</p>	<p>At present M/s Sigma Global Enviro Solutions Private Ltd is processing 25 TPD waste and M/s Fabco Bio Cycle & Bio Protein Technology Private Ltd is processing 50 TPD of waste. Regarding the operation, M/s Zigma Global Enviro Solutions Private Ltd has processed 10705799.53 Kilo gram Waste and an amount of Rs.2,15,91,234/- has been paid to them till the date and M/s Fabco Bio Cycle & Bio Protein Technology Private Ltd has processed 18203700 Kilo gram Waste and an amount of Rs.4,00,48,333/- has been paid to them till the date.</p>	<p>M/s Fabco Bio Cycle & Bio Protein Technology Private Ltd and M/s Sigma Global Enviro Solutions Private Ltd have entered into an agreement with the Kochi Municipal Corporation to set up a 50 TPD capacity black soldier fly plant at Brahmapuram owned by Kochi Municipal Corporation. Two plants with a capacity of 50 tons each have started operation from 08-03-2024. At present M/s Zigma Global Enviro Solutions Private Ltd is processing 25 TPD waste and M/s Fabco Bio Cycle & Bio Protein Technology Private Ltd is processing 50 TPD of waste. Regarding the operation, M/s Zigma Global Enviro Solutions Private Ltd has processed 12348789.53 Kilo gram Waste and an amount of Rs.2,38,08,448/- has been paid to them till the date (Waste collected in September- 891880 Kilo gram) and M/s Fabco Bio Cycle & Bio Protein Technology Private Ltd has processed 20879560 Kilo gram Waste and an amount of Rs.4,30,73,873/- has been paid to them till the date. (Waste collected in September- 1211185</p>	Completed	NA
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A(b)	<u>Provide proper facilities for collecting and treating leachate</u>	<u>Kochi Corporation</u>		<u>Presently composting plant not operational. New BSF Plant started functioning and operating satisfactorily.</u>	<u>Presently composting plant not operational. New BSF Plant started functioning and operating satisfactorily.</u>	<u>Presently composting plant not operational. New BSF Plant started functioning and operating satisfactorily.</u>		
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Action plan by Gramapanchayath

<u>No. (as per Action Plan)</u>	<u>Activity</u>	<u>Implementing agency</u>	<u>Time line</u>	<u>Progress in the month of July 2025</u>	<u>Progress in the month of August 2025</u>	<u>Progress in the month of September 2025</u>	<u>% works completed</u>	<u>Details of works remaining</u>
E	<u>Installation of CCTV camera At Manakkakadavu</u>	<u>Kunnathunadu</u>	<u>30.09.2019</u>				Completed	
C(ii)	<u>Vadavukad puthenkruze</u>	<u>Cleaning of Thodu</u>	<u>6 months</u>				Completed	
C(ii)	<u>Vadavu kad puthenkruze</u>	<u>Surveillance to restrict dumping of waste to the river and branches (with the help of Police)</u>	<u>2 months</u>				Completed	

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2. Long termPlan

<u>No. (as per Action Plan)</u>	<u>Activity</u>	<u>Implementing agency</u>	<u>Time line</u>	<u>Progress in the month of July 2025</u>	<u>Progress in the month of August 2025</u>	<u>Progress in the month of September 2025</u>	<u>% works completed</u>	<u>Details of works remaining</u>
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4.5 C(ii)	Solid waste treatment facility at Brahmapuram	Kochi Corporation	Three years DPR Preparation in 10 months (through consultants)	New BSF plant started functioning and operating satisfactorily About 90% of CBG plant work is completed.	New BSF plant started functioning and operating satisfactorily About 90% of CBG plant work is completed.	About 93% of work is completed. With respect to planned schedule there experienced some delays to the following factors d) Pre-Monsoon Rains and Climatic Challenges: Unseasonal heavy rainfall in early 2025 disrupted construction activities, delaying critical outdoor installation and pipeline work e) Logistical Constraints: Access road construction and site preparation were impeded by water logging, require additional soil stabilization measures f) Supply Chain Disruptions: Delays in equipment transportation due to weather-related road closures		
4.6 A(b)	Restriction of illegal dumping of septage in to the river	Police	As soon as possible					

3. REVISED ACTION PLAN

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
3.1	Slaughter house and poultry waste Rendering plant	Thrikkakkara Municipality	To allot land for installing plant, Government procedure are on going	Land got in Edathala Panchayath for the slaughter house waste rendering plant and is facing difficulty to get NOC from NAD. Hence, rendering is progressing.	Land got in Edathala Panchayath for the slaughter house waste rendering plant and is facing difficulty to get NOC from NAD. Hence, rendering is progressing.	3 Acres of land (wet land) found in 12th ward of Thrikkakkara Municipality for the slaughterhouse and poultry waste rendering plant.	No action taken	

<p>3.2</p>	<p><u>Sanitation facility and treatment of waste water inthe markets</u></p> <p><u>Treatment plant</u></p> <p><u>Portable aerobic bins</u></p>	<p><u>Thrikkakkara Municipality</u></p>	<p><u>2020-21</u></p> <p><u>2021-22</u></p>	<p><u>New project proposal for the mobile STP plant has been submitted.</u></p>	<p><u>New project proposal for the mobile STP plant has been submitted.</u></p>	<p><u>ETP IS WORKING</u></p> <p><u>Thrikkakkara Municipality informed that the 10 KLD STP of the market is functioning.</u></p> <p><u>Thrikkakkara Municipality informed that they got approval for the new project of beautification of Kadambrayar river, which includes beautification of river banks and installation of cameras</u></p> <p><u>Thrikkakkara Municipality informed that tender will call for the new project proposal of mobile STP in the next council.</u></p> <p><u>Tendering process of 130 cameras has been completed, agreement executed and installation work has been started.</u></p> <p><u>Maintenance of sanitation facility will be completed within 2 weeks.</u></p>	<p>75</p>	<p><u>Water connection to the latrin has to be provided</u></p>
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3.3	<p><u>Provide facility for the treatment of sewage, sullage and garbage generated</u></p> <p><u>Proposed places for the installation of Aerobins</u> <u>(1) Municipal office compound</u> <u>(2) NGO Quarters</u> <u>(3) Kakknad Market</u> <u>Near Eechamukku TV-Centre</u> <u>Anganavadi</u></p>	<u>Thrikkakkara Municipality</u>	<u>To allot land for installing plant, Government procedures are on going</u>	<p>STP has installed at market</p> <p>Maintenance work of Bio gas plant near NGO Quarters is ongoing.</p> <p>Tendering works for bio degradable waste plant at municipal office has been completed.</p>	<p>Collector Alloted 8.5 acre of land near to Thrikkakara Municipality office for the installation of bio waste treatment plant on October 21 then tendering procedure started on 9 December 2024 , then Agency selected for waste managment plant installation and civil construction by Municipality on council discussion held at 07-01-2025. On the progress of land procurement high court issued stay on 10 october 2025</p>	<p>Maintanance works of two Bio gas plants near NGO Quarters are ongoing</p> <p>There are no current projects for aerobins. Agreement submitted for solid waste disposal plant and work will be started soon.</p>	<p>Hon. High Court issued an iterim stay order against solid waste disposal plant construction. so work can't be started</p>	
3.4	<p><u>Providing facility for restricting discharge of waste water from the surrounding houses to the river</u></p> <p><u>Outlet closing procedures are going on by issuing Notices</u></p>	<u>Thrikkakkara Municipality</u>		<u>Notices issued and illegal outlets were closed</u>	<u>Notices issued and illegal outlets were closed</u>	<p><u>Squad surveillance is ongoing in every week.</u></p> <p><u>Fine collected of 44,000 Rs from Four cases</u></p> <p><u>Notice issued to Seven cases</u></p>		
3.5	<p><u>Providing effluent treatment plant for industries</u></p> <p><u>No.of industries :75 no.s</u></p> <p><u>Total effluent treatment plant required : Nil units</u></p>	<u>Thrikkakkara Municipality</u>						
3.6	<u>Identification of illegal outlets into storm water drains and fine shall be imposed on such units – 30 units</u>	<u>Thrikkakkara Municipality</u>				<u>Illegal outlets closed and fine of Rs. 28500 imposed</u>		

3.7	<u>Biodegradable waste management</u> <u>Bio-Composter – 2000 No.s</u> <u>Thumboormuzhi aerobic bins - 4 No.s</u> <u>Portable biogas – 1500 No.s</u> <u>Ring compost – 500 No.s</u> <u>Napkin destroyer – 6 No.s</u> <u>Viability gap Fund</u>	<u>Thrikkakkara Municipality</u>						
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4	<u>5. MONITORING</u>							
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<u>No. (as per Action Plan)</u>	<u>Activity</u>	<u>Implementing agency</u>	<u>Time line</u>	<u>Progress in the month of July 2025</u>	<u>Progress in the month of August 2025</u>	<u>Progress in the month of September 2025</u>	<u>% works completed</u>	<u>Details of works remaining</u>
4.1	<u>River water quality monitoring – Monitoring of water quality</u>	<u>Kerala State Pollution Control Board</u>	<u>Ongoing: Monthly frequency</u>	<u>Monitoring progressing</u>	<u>Monitoring progressing</u>	<u>Monitoring progressing</u>		
4.2	<u>Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotelsetc</u> <u>Monitoring of establishments, service stations, flats, industrialunits</u>	<u>Kerala State Pollution Control Board</u>		<u>Monitoring progressing</u>	<u>Monitoring progressing</u>	<u>Monitoring progressing</u>		

6	<u>7. LONG TERMPPLAN</u>							
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<u>No. (as per Action Plan)</u>	<u>Activity</u>	<u>Implementing agency</u>	<u>Time line</u>	<u>Progress in the month of July 2025</u>	<u>Progress in the month of August 2025</u>	<u>Progress in the month of September 2025</u>	<u>% works completed</u>	<u>Details of works remaining</u>
5.1	<u>Additional STP requirement DPR Preparation in 6 months (through consultants) To allot land, Government Procedure are ongoing</u>	<u>Thrikkakkara Municipality</u>	<u>3 years</u>	<u>No progress</u>	<u>No progress</u>	<u>No progress</u> <u>Thrikkakkara Municipality informed that the installation of STP can be implemented only if they get permission in the founded wet land.</u>		
5.2	<u>Acquiring of land and rehabilitate families from the banks of River</u> <u>To allot land, Government Procedure are ongoing</u>	<u>District Collector, Thrikkakkara Municipality, Revenue Dept</u>	<u>5 years</u>					

<u>DESILTING AND DEVELOPEMENT</u>								
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<u>No.</u> <u>(as per Action Plan)</u>	<u>Activity</u>	<u>Implementing agency</u>	<u>Time line</u>	<u>Progress in the month of July 2025</u>	<u>Progress in the month of August 2025</u>	<u>Progress in the month of September 2025</u>	<u>% works completed</u>	<u>Details of works remaining</u>
5.3	<p>Development package</p> <p>Inspection bund for Chithrapuzha and Kadambrayar are included in this package. For this project, preliminary investigation of site which includes survey of land to know its availability for formation of side bund which is to be provided with tiles. The project also includes side protection work of Chithrapuzha and Kadambrayar.</p> <p>Provision for handrails at the edge of the bund is given. Overall cost comes to 25 Crore. The work is being proposed urgently and will be submitted to higher authorities for financial sanction.</p>	Irrigation department	3 years	<p>Survey details for the demarcation of boundaries has been submitted to revenue department. Rate updation of previously proposed 20 crores project is progressing. Superintending Engineer informed to prepare a letter to District Collector regarding the necessity of demarcation of boundaries for the preparation of DPR.</p>	<p>Survey details for the demarcation of boundaries has been submitted to revenue department. Rate updation of previously proposed 20 crores project is progressing. Superintending Engineer informed to prepare a letter to District Collector regarding the necessity of demarcation of boundaries for the preparation of DPR.</p>	<p>The Tahsildar, Kunnathunadu, has requested the District Collector to arrange a special survey team to carry out demarcation works, as per Letter No. TLKKND/3704/2025/S3 dated 20.09.2025.</p> <p>Environmental Engineer informed that letter has been sent to district collector to take necessary action for the demarcation of boundaries</p>		
5.4	<p>Desilting and development</p> <p>It includes clearing and removing water hyacinth of Kadambrayar, Chithrapuzha and Edachirathodu near Infopark phase II. This is to be done periodically (every four months), depending on availability of fund.</p>	Irrigation Department	1 year (periodical cleaning - 4 months x3)	<p>Reported about a 1year plan for the removal of weeds to keep the river clean.</p>	<p>Reported about a 1year plan for the removal of weeds to keep the river clean.</p>	<p>Periodic cleaning work for the year 2025–2026 in the Kadambrayar, from Manakkakadavu to Brahmapuram Bridge, is currently in progress. Details regarding the Chithrapuzha River are included under 'River Chithrapuzha' Item No. 5.</p>		

5.5	sheet piling and providing fencing Fencing is provided in Sl.no 5.3	Irrigation Department	1.5 years	Financial sanction not obtained for development package. No Progress.	Financial sanction not obtained for development package. No Progress.	The Tahsildar, Kunnathunadu, has requested the District Collector to arrange a special survey team to carry out demarcation works, as per Letter No. TLKKN/3704/2025/S3 dated 20.09.2025. Environmental Engineer informed that letter has been sent to district collector to take necessary action for the demarcation of boundaries.		
5.6	Development of river basin It includes cleaning and removal of water hyacinth from rivers and maintain its natural flow, depending on availability of fund.	Irrigation Department	1.5 years	Financial Sanction not obtained for Development package.	Financial Sanction not obtained for Development package.	The Tahsildar, Kunnathunadu, has requested the District Collector to arrange a special survey team to carry out demarcation works, as per Letter No. TLKKN/3704/2025/S3 dated 20.09.2025. Environmental Engineer informed that letter has been sent to district collector to take necessary action for the demarcation of boundaries.		
8	9. RECOMMENDATIONS BY KERALA STATE POLLUTION CONTROL BOARD Activities for compliance with Solid Waste Management Rules, 2016; Bio-medical Waste Management Rules, 2016							
No. (as per Action Plan)	Activity	Implementing agency	Time line				% works completed	Details of works remaining
6.1	Door-to-door collection and transportation of MSW 100% door to door collection Proposed Kerala Solid Waste Management Authority	Thrikkakkara Municipality Local bodies of Census Town						

6.2	<u>Modern Solid Waste Treatment Plant</u> <u>Proposed Kerala Solid Waste Management Authority</u>	<u>Thrikkakkara Municipality (To allot land, Government procedure are ongoing)</u> <u>Local bodies of Census Town</u>						
6.3	Rendering plant for slaughter house/poultry wastes Proposed Kerala Solid Waste Management Authority	Thrikkakkara Municipality (To allot land, Government procedure are on going)						
6.4	<u>Common bio-medical waste treatment facility</u> <u>Proposed Kerala Solid Waste Management Authority</u>	<u>Health Department</u>						
6.5	<u>Regional sanitary landfill site identification and land acquisition</u> <u>Establishment and operation of Regional Sanitary Landfills</u> <u>Proposed Kerala State Waste Management Authority</u>	<u>District Collector</u> <u>Local bodies</u>						

7. OTHER ASPECTS

No. (as per Action Plan)	Activity	Implementing agency	Time line				% works completed	Details of works remaining
7.1	Flood plain zone management and E- flow maintaining Flood plain zone management & E-flow maintaining cleaning & desilting, depending on availability of fund. During summer season Irrigation Department Provides temporary bund to prevent the salt water intrusion due to tidal effects. To maintain natural flow, sluice gate is provided. During the low tide, the shutter of the sluice gate is kept open to maintain minimum flow	<u>Irrigation Dept</u>						
7.2	Development of bio diversity parks in banks	<u>Thrikkakkara Municipality</u>	<u>1st Phase 2020-21</u> <u>2nd Phase 2021-22</u>					

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

STNCode	Sampling Date	Sampling Time	StnName	Type Of Water Body	Name Of Water Body	River Basin
17	19.08.2025	10:30	Periyar at Eloor	River	Periyar River	
1338	08.08.2025	11:10	Periyar at SDP Aluva	River	Periyar River	
2334	05.08.2025	11:28	Periyar at Pathalam	River	Periyar River	
2335	05.08.2025	12:15	Periyar at Kalamassery	River	Periyar River	
3468	08.08.2025	11:35	Periyar at KWA Aluva	River	Periyar River	
2337	06.08.2025	11:15	Kadambrayar At Brahmapuram	River	Kadambrayar River	
2338	06.08.2025	12:15	Kadambrayar At Manackakadavu	River	Kadambrayar River	
1573	06.08.2025	10:50	Chithrapuzha At Irumpanam	River	Chithrapuzha River	
1154	08.08.2025	1:45	Chalakydy at Pulikkakadavu	River	Chalakydy River	

Sl. No.	Parameters	Values								
		Station Code								
		17	1338	2334	2335	3468	2337	2338	1573	1154
1	Temperature, °C	28	26	27	26	26	27	26	27	27
2	Dissolved Oxygen, mg/l	7.8	8.3	7.8	6.5	8.3	1.6	2.4	1.5	8.6
3	pH	7.7	6.5	7.2	7.1	6.8	6.9	6.7	6.9	7.3
4	Conductivity, µmhos/cm	55	46	122	57	35	170	70	95	54
5	BOD, mg/l	1.5	2.4	0.8	1.9	2	3.4	3.2	3.5	0.6
6	Nitrate-N, mg/l	0.4	0.4	0.4	0.2	0.3	0.1	0.1	0.4	0.1
7	Turbidity, NTU	4.0	0.0	4	0	1.2	0	0	0	1.1
8	Phenolphthalein alkalinity	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
9	Total Alkalinity, as CaCO3	11	13	13	16	9	40	19	19	6.45
10	Chloride, mg/l	7	3.49	23	5	2.49	13.5	7	10	7.99
11	COD, mg/l	4.8	7.2	2.4	5.6	6.4	10.4	9.6	10.4	1.6
12	TKN, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.05	BDL
13	Ammoniacal-N, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02	BDL
14	Total Hardness, as CaCO3 mg/l	14	12	12	13	11	39	15	22	16
15	Calcium, as CaCO3 mg/l	9	6	9	11	6	32	12	19	11
16	Magnesium as CaCO3, mg/l	5	6	3	2	5	7	3	3	5
17	Sulphate, mg/l	BDL	BDL	BDL	BDL	BDL	12.2	BDL	1.5	BDL
18	Sodium, mg/l	3.8	2.3	16.7	3.3	1.6	9.8	5.1	7.5	3
19	Total Dissolved Solids, mg/l	31	26	68	32	20	96	39	53	27
20	Total Fixed Solids, mg/l	25	21	54	26	16	77	31	42	22
21	Total Suspended Solids, mg/l	7	2	34	0	8	3	8	10	0
22	Phosphate, mg/l	0.67	0.64	0.71	0.62	0.65	0.63	0.61	0.66	0.61
23	Boron, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
24	Potassium, mg/l	1	1	2.00	1.6	1	1	1	1	1.1
25	Fluoride, mg/l	0.028	0.029	0.092	0.054	0.025	0.062	0.042	0.139	0.028
26	Total Coliform, MPN/100 ml	1700	400	2600	5400	490	7000	4700	2300	1200
27	Feacal Coliform, MPN/100 ml	200	250	310	1300	270	3300	840	490	260
28	Feacal Streptococci, MPN/100ml	40	210	200	630	220	540	260	140	100

KERALA STATE POLLUTION CONTROL BOARD
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR
ANALYSIS REPORT OF RIVER PERIYAR -SEPTEMBER 2025
Sampling point: ALUVA - MANAPPURAM

Sl. No	Parameter	Unit	05.09.2025	25.09.2025
1	Temperature	°c	31.5	30.7
2	pH		7.1	6.88
3	Conductivity	µS/cm	49.77	70.6
4	TDS	NTU	28.81	40.86
5	Turbidity	mg/L	*	*
6	Colour	"	20	20
7	SS	"	6.80	3.2
8	Chlorides	"	10	11.91
9	Hardness	"	14.00	22
10	D.O.	"	8.0	4.7
11	COD	"	12.0	20
12	Calcium	"	3.6	2.4
13	Magnesium	"	1.215	3.88
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.17	0.165
17	Hexa Chromium	"	0.054	0.061
18	Oil & Grease	"	9.04	2.420
19	Iron	"	0.578	0.602
20	Sulphides	"	BDL	BDL
21	Sulphates	"	1.406	3.594
22	Total Alkalinity	"	32.0	22.0
23	Nitrate	"	2.22	1.864
24	BOD	"	1.3	1.8
25	TC	"	140	0
26	FC	"	40	0
27	FS	"	20	20
28	Sodium	ppm	0.92	0.800
29	Potassium	ppm	0.33	0.320
30	SAR	meq/L	0.11	0.07

* TURBIDITY METER IS OUT OF ORDER

KERALA STATE POLLUTION CONTROL BOARD
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR
ANALYSIS REPORT OF RIVER PERIYAR -SEPTEMBER 2025
Sampling point: PATHALAM BUND D/S

Sl. No	Parameter	Unit	05.09.2025	25.09.2025
1	Temperature	°c	31.3	30.6
2	pH		6.96	7.13
3	Conductivity	µS/cm	45.35	94.64
4	TDS	NTU	26.25	54.78
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	0.80	2.60
8	Chlorides	"	7.0	20
9	Hardness	"	12.00	29.00
10	D.O.	"	7.2	4.4
11	COD	"	20.0	32.0
12	Calcium	"	3.6	8.4
13	Magnesium	"	0.729	1.944
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.17	0.16
17	Hexa Chromium	"	0.059	0.053
18	Oil & Grease	"	5.04	2.02
19	Iron	"	0.696	0.644
20	Sulphides	"	BDL	BDL
21	Sulphates	"	1.719	4.063
22	Total Alkalinity	"	28	24
23	Nitrate	"	1.792	1.81
24	BOD	"	0.9	1.6
25	TC	"	100	0
26	FC	"	40	0
27	FS	"	20	40
28	Sodium	ppm	1.2	1.1
29	Potassium	ppm	0.24	0.36
30	SAR	meq/L	0.15	0.09

* TURBIDITY METER IS OUT OF ORDER

KERALA STATE POLLUTION CONTROL BOARD
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR
ANALYSIS REPORT OF RIVER PERIYAR -SEPTEMBER 2025
Sampling point: MANJUMMAL BUND

Sl. No	Parameter	Unit	05.09.2025	25.09.2025
1	Temperature	°c	31.6	30.7
2	pH		7.10	6.84
3	Conductivity	µS/cm	45.43	61.82
4	TDS	NTU	26.29	35.78
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	2.40	4.2
8	Chlorides	"	7.94	7.94
9	Hardness	"	12	17
10	D.O.	"	7.2	4.5
11	COD	"	16	28
12	Calcium	"	4	6
13	Magnesium	"	0.486	0.486
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.155	0.198
17	Hexa Chromium	"	0.05	0.046
18	Oil & Grease	"	15.68	3.24
19	Iron	"	0.56	0.597
20	Sulphides	"	BDL	BDL
21	Sulphates	"	1.406	2.5
22	Total Alkalinity	"	30	28
23	Nitrate	"	1.703	2.24
24	BOD	"	0.1	1.8
25	TC	"	120	220
26	FC	"	80	80
27	FS	"	60	0
28	Sodium	ppm	1.1	0.84
29	Potassium	ppm	0.62	0.62
30	SAR	meq/L	0.14	0.09

* TURBIDITY METER IS OUT OF ORDER

KERALA STATE POLLUTION CONTROL BOARD
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR
ANALYSIS REPORT OF RIVER PERIYAR -SEPTEMBER 2025
Sampling point: PATHALAM BUND U/S

Sl. No	Parameter	Unit	05.09.2025	25.09.2025
1	Temperature	°c	B	B
2	pH		U	U
3	Conductivity	µS/cm	N	N
4	TDS	NTU	D	D
5	Turbidity	mg/L		
6	Colour	"	O	O
7	SS	"	P	P
8	Chlorides	"	E	E
9	Hardness	"	N	N
10	D.O.	"		
11	COD	"		
12	Calcium	"		
13	Magnesium	"		
14	Ammoniacal Nitrogen	"		
15	Free Ammonia	"		
16	Phosphates			
17	Hexa Chromium	"		
18	Oil & Grease	"		
19	Iron	"		
20	Sulphides	"		
21	Sulphates	"		
22	Total Alkalinity	"		
23	Nitrate	"		
24	BOD	"		
25	TC	"		
26	FC	"		
27	FS	"		
28	Sodium	ppm		
29	Potassium	ppm		
30	SAR	meq/L		

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As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river parameter

KERALA STATE POLLUTION CONTROL BOARD
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR
ANALYSIS REPORT OF RIVER PERIYAR -SEPTEMBER 2025
Sampling point: PUTHALAM KADAVU

Sl. No	Parameter	Unit	05.09.2025	25.09.2025
1	Temperature	°c	31.5	30.7
2	pH		6.93	7.0
3	Conductivity	µS/cm	45.65	63.91
4	TDS	NTU	26.42	36.99
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	6.80	4.20
8	Chlorides	"	7.94	10
9	Hardness	"	10.00	15.00
10	D.O.	"	7.0	4.8
11	COD	"	20	24
12	Calcium	"	3.2	4.8
13	Magnesium	"	0.486	0.729
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.17	0.174
17	Hexa Chromium	"	0.051	0.055
18	Oil & Grease	"	5.96	3.6
19	Iron	"	0.605	0.56
20	Sulphides	"	BDL	BDL
21	Sulphates	"	2.188	2.969
22	Total Alkalinity	"	38	20
23	Nitrate	"	1.828	1.38
24	BOD	"	1.3	1.7
25	TC	"	80	660
26	FC	"	60	240
27	FS	"	20	380
28	Sodium	ppm	1.6	1.4
29	Potassium	ppm	0.56	0.52
30	SAR	meq/L	0.22	0.16

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KERALA STATE POLLUTION CONTROL BOARD
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR
ANALYSIS REPORT OF RIVER PERIYAR -SEPTEMBER 2025
Sampling point: PATHALAM BRIDGE

Sl. No	Parameter	Unit	05.09.2025	25.09.2025
1	Temperature	°c	31.4	30.3
2	pH		6.8	6.7
3	Conductivity	µS/cm	44.83	60.82
4	TDS	NTU	25.95	35.20
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	5.20	3.40
8	Chlorides	"	7.94	12
9	Hardness	"	12	20
10	D.O.	"	7.1	4.8
11	COD	"	24	20
12	Calcium	"	3.6	4.8
13	Magnesium	"	0.729	1.944
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.184	0.293
17	Hexa Chromium	"	0.051	0.054
18	Oil & Grease	"	5.32	4.2
19	Iron	"	0.724	0.564
20	Sulphides	"	BDL	BDL
21	Sulphates	"	1.094	3.125
22	Total Alkalinity	"	26	18
23	Nitrate	"	1.846	1.326
24	BOD	"	0.5	1.8
25	TC	"	0	460
26	FC	"	0	20
27	FS	"	0	80
28	Sodium	ppm	0.92	1
29	Potassium	ppm	0.26	0.6
30	SAR	meq/L	0.11	0.1

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KERALA STATE POLLUTION CONTROL BOARD
ENVIRONMENTAL SURVEILLANCE CENTRE, ELOOR
ANALYSIS REPORT OF RIVER PERIYAR -SEPTEMBER 2025
Sampling point: VETTUKADAVU

Sl. No	Parameter	Unit	05.09.2025	25.09.2025
1	Temperature	°c	31.5	30.8
2	pH		6.88	6.9
3	Conductivity	µS/cm	44.5	68.39
4	TDS	NTU	25.76	39.58
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	3.20	2.20
8	Chlorides	"	7.9	9
9	Hardness	"	10.00	24.00
10	D.O.	"	7.5	4.5
11	COD	"	20.0	16.0
12	Calcium	"	2.8	6.8
13	Magnesium	"	0.73	1.701
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.151	0.127
17	Hexa Chromium	"	0.050	0.051
18	Oil & Grease	"	4.120	2.620
19	Iron	"	0.461	0.578
20	Sulphides	"	BDL	BDL
21	Sulphates	"	0.781	2.188
22	Total Alkalinity	"	34.0	22.0
23	Nitrate	"	2.276	1.72
24	BOD	"	0.7	1
25	TC	"	40	20
26	FC	"	20	0
27	FS	"	0	100
28	Sodium	ppm	1	1.200
29	Potassium	ppm	0.52	0.64
30	SAR	meq/L	0.14	0.11

* TURBIDITY METER IS OUT OF ORDER

**STATE WATER QUALITY MONITORING PROGRAMME
(SWMP)...AUGUST... 2025**

Station Name		Chalakudy			
Type of Water body		River			
Name of Water Body		Chalakudy			
Completed by		DO Thrissur			
Agency		KERALA STATE POLLUTION CONTROL BOARD			
1	Station Code	K52			
2	Date and time of sample taken (DD/MM/YY, HH/MM)	06.08.2025 11:35:00 AM,			
3	Weather	Cloudy	Clear✓	Windy	Raining
4	Approximate depth of main stream	< 50 cm	50 – 100 cm	>100 cm✓	Flood
5	Color & Intensity	Clear✓	Turbid	Green	Brown
		1 = Light✓	2 = Moderate	3 = High	
6	Odour	None✓	Fishy	H2S	Other
7	Floating Matter	Floating	Floating sludge	Oil & Grease	Water Hyacinth
8	Visible effluent discharges in proximity	Industrial	Municipal sewage	None	
9	Human activities around the station	Cattle wading	Farming✓	Fishing✓	Bathing Other✓
10	Location details	U/s of town or industrial area	D/s of town or industrial area✓	Pilgrim center/Bathing Ghat/Water intake	None
11	Flow rate				
12	Major polluting source	Industrial effluent	MSW	PW	None Other✓
13	Uses of water in downstream	Irrigation	Drinking water	Fishing✓	Domestic
		Organized water source	Cultivation✓	Bathing Ghat	Others✓

Sl. No	Determinants	Values
1	Temperature, 0C	30
2	Dissolved Oxygen, mg/l	8.3
3	pH	7.03
4	Conductivity, µmhos/cm	46
5	BOD, mg/l	1.8
6	Nitrate-N, mg/l	0.2
7	Turbidity, NTU	2
8	Total Alkalinity, mg/l	5
9	Chloride, mg/l	10
10	Ammoniacal-N, mg/l	BDL
11	Hardness as CaCO3, mg/l	14
12	Calcium as CaCO3, mg/l	8
13	Magnesium as CaCO3, mg/l	6
14	Sulphate, mg/l	4.1
15	Sodium, mg/l	5.24
16	Total Dissolved Solids, mg/l	30
17	Phosphate, mg/l	0.02
18	Boron, mg/l	BDL
19	Potassium, mg/l	1.37
20	Total Coliform, MPN/100 ml	30
21	Fecal Coliform, MPN/100 ml	20
22	Sodium Absorption Ratio (SAR)	0.6

**STATE WATER QUALITY MONITORING PROGRAMME
(SWMP)...SEPTEMBER... 2025**

Station Name		Chalakudy				
Type of Water body		River				
Name of Water Body		Chalakudy				
Completed by		DO Thrissur				
Agency		KERALA STATE POLLUTION CONTROL BOARD				
1	Station Code	K52				
2	Date and time of sample taken (DD/MM/YY, HH/MM)	10.09.2025 11:30:00 AM,				
3	Weather	Cloudy	Clear√	Windy	Raining	
4	Approximate depth of main stream	< 50 cm	50 – 100 cm	>100 cm√	Flood	
5	Color & Intensity	Clear√	Turbid	Green	Brown	
		1 = Light√	2 = Moderate	3 = High		
6	Odour	None√	Fishy	H2S	Other	
7	Floating Matter	Floating	Floating sludge	Oil & Grease	Water Hyacinth	
8	Visible effluent discharges in proximity	Industrial	Municipal sewage	None		
9	Human activities around the station	Cattle wading	Farming√	Fishing√	Bathing	Other√
10	Location details	U/s of town or industrial area	D/s of town or industrial area√	Pilgrim center/Bathing Ghat/Water intake	None	
11	Flow rate					
12	Major polluting source	Industrial effluent	MSW√	PW	None	Other√
13	Uses of water in downstream	Irrigation√	Drinking water	Fishing√	Domestic√	
		Organized water source	Cultivation√	Bathing Ghat	Others√	

Sl. No	Determinants	Values
1	Temperature, 0C	26
2	Dissolved Oxygen, mg/l	8.4
3	pH	7.9
4	Conductivity, μmhos/cm	52
5	BOD, mg/l	1.3
6	Nitrate-N, mg/l	0.2
7	Turbidity, NTU	2
8	Total Alkalinity, mg/l	8
9	Chloride, mg/l	11
10	Ammoniacal-N, mg/l	BDL
11	Hardness as CaCO3, mg/l	16
12	Calcium as CaCO3, mg/l	8
13	Magnesium as CaCO3, mg/l	8
14	Sulphate, mg/l	3
15	Sodium, mg/l	6
16	Total Dissolved Solids, mg/l	36
17	Phosphate, mg/l	0.02
18	Boron, mg/l	BDL
19	Potassium, mg/l	1.37
20	Total Coliform, MPN/100 ml	60
21	Fecal Coliform, MPN/100 ml	40
22	Sodium Absorption Ratio (SAR)	0.7

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

Station Name		KARUVANNUR												
Type of Water body		RIVER												
Completed by		DO, THRISSUR												
Agency		KERALA STATE POLLUTION CONTROL BOARD												
1	Station Code	2	2	8	9									
2	Date and time of sample taken (DD/MM/YY, HH/MM)	0	5	0	8	2	0	2	5			10	10	AM
3	Weather	Cloudy			Clear			Windy			Raining✓			
4	Approximate depth of main stream	< 50 cm			50 – 100 cm			>100 cm✓			Flood			
5	Color & Intensity	Clear			Turbid✓			Green			Brown			
		1 = Light✓			2 = Moderate			3 = High						
6	Odour	None✓			Fishy			H2S			Other			
7	Floating Matter	Floating			Floating sludge			Oil & Grease			Water Hyacinth✓			
8	Visible effluent discharges in proximity	Industrial			Municipal sewage			None						
9	Human activities around the station	Cattle wading			Farming ✓			Fishing✓		Bathing		Other✓		
10	Location details	U/s of town or industrial area			D/s of town or industrial area✓			Pilgrim center/Bathing Ghat/Water intake			None			
11	Flow rate													
12	Major polluting source	Industrial effluent			MSW✓		PW		None		Other✓			
13	Uses of water in downstream	Irrigation			Drinking water source			Fishing✓		Domestic				
		Organized			Cultivation✓			Bathing		Others✓				

Sl.No	Determinants	Values
1	Temperature, 0C	25
2	Dissolved Oxygen, mg/l	8.1
3	pH	7.55
4	Conductivity, µmhos/cm	65
5	BOD, mg/l	1.2
6	Nitrate-N, mg/l	0.2
7	Turbidity, NTU	3.4
8	Phenolphthalein Alkalinity, mg/l	BDL
9	Total Alkalinity, mg/l	11
10	Chloride, mg/l	12
11	COD, mg/l	8
12	TKN, mg/l	BDL
13	Ammoniacal-N, mg/l	BDL
14	Hardness as CaCO3, mg/l	15
15	Calcium as CaCO3, mg/l	11
16	Magnesium as CaCO3, mg/l	4
17	Sulphate, mg/l	4.2
18	Calcium (Ca2+), mg/l	4.409
19	Magnesium (Mg2+), mg/l	0.972
20	Sodium, mg/l	9
21	Total Dissolved Solids, mg/l	41
22	Total Fixed Solids, mg/l	30
23	Total Suspended Solids, mg/l	BDL
24	Phosphate, mg/l	0.06
25	Boron, mg/l	BDL
26	Potassium, mg/l	2
27	Fluoride, mg/l	BDL
28	Total Coliform, MPN/100 ml	240
29	Fecal Coliform, MPN/100 ml	120
30	Fecal Streptococcus, MPN/100 ml	40
31	% SODIUM	52.7
32	SAR	1

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

Station Name		KARUVANNUR												
Type of Water body		RIVER												
Completed by		DO, THRISSUR												
Agency		KERALA STATE POLLUTION CONTROL BOARD												
1	Station Code	2	2	8	9									
2	Date and time of sample taken (DD/MM/YY, HH/MM)	1	2	0	9	2	0	2	5			11	45	AM
3	Weather	Cloudy			Clear			Windy			Raining✓			
4	Approximate depth of main stream	< 50 cm			50 – 100 cm			>100 cm✓			Flood			
5	Color & Intensity	Clear			Turbid✓			Green			Brown			
		1 = Light✓			2 = Moderate			3 = High						
6	Odour	None✓			Fishy			H2S			Other			
7	Floating Matter	Floating			Floating sludge			Oil & Grease			Water Hyacinth✓			
8	Visible effluent discharges in proximity	Industrial			Municipal sewage			None						
9	Human activities around the station	Cattle wading			Farming ✓			Fishing✓		Bathing✓		Other✓		
10	Location details	U/s of town or industrial area			D/s of town or industrial area✓			Pilgrim center/Bathing Ghat/Water intake			None			
11	Flow rate													
12	Major polluting source	Industrial effluent			MSW✓		PW		None		Other✓			
13	Uses of water in downstream	Irrigation✓			Drinking water source			Fishing✓		Domestic✓				
		Organized			Cultivation✓			Bathing		Others✓				

Sl.No	Determinants	Values
1	Temperature, 0C	27
2	Dissolved Oxygen, mg/l	7.5
3	pH	7.08
4	Conductivity, µmhos/cm	76
5	BOD, mg/l	0.6
6	Nitrate-N, mg/l	0.2
7	Turbidity, NTU	1.9
8	Phenolphthalein Alkalinity, mg/l	BDL
9	Total Alkalinity, mg/l	13
10	Chloride, mg/l	14
11	COD, mg/l	4
12	TKN, mg/l	BDL
13	Ammoniacal-N, mg/l	BDL
14	Hardness as CaCO3, mg/l	17
15	Calcium as CaCO3, mg/l	12
16	Magnesium as CaCO3, mg/l	5
17	Sulphate, mg/l	4.2
18	Calcium (Ca2+), mg/l	4.81
19	Magnesium (Mg2+), mg/l	1.215
20	Sodium, mg/l	10
21	Total Dissolved Solids, mg/l	48
22	Total Fixed Solids, mg/l	36
23	Total Suspended Solids, mg/l	BDL
24	Phosphate, mg/l	0.06
25	Boron, mg/l	BDL
26	Potassium, mg/l	3
27	Fluoride, mg/l	BDL
28	Total Coliform, MPN/100 ml	200
29	Fecal Coliform, MPN/100 ml	160
30	Fecal Streptococcus, MPN/100 ml	40
31	% SODIUM	51.1
32	SAR	1.1

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

Station Name		PUZHAKKAL											
Type of Water body		RIVER											
Completed by		DO, THRISSUR											
Agency		KERALA STATE POLLUTION CONTROL BOARD											
1	Station Code	2	2	9	0								
2	Date and time of sample taken (DD/MM/YY, HH/MM)	0	8	0	8	2	0	2	5		1	0	PM
3	Weather	Cloudy		Clear✓			Windy			Raining			
4	Approximate depth of main stream	< 50 cm		50 – 100 cm			>100 cm✓			Flood			
5	Color & Intensity	Clear✓		Turbid			Green			Brown			
		1 = Light✓		2 = Moderate			3 = High						
6	Odour	None		Fishy✓			H2S			Other			
7	Floating Matter	Floating		Floating sludge			Oil & Grease			Water Hyacinth✓			
8	Visible effluent discharges in proximity	Industrial		Municipal sewage			None✓						
9	Human activities around the station	Cattle		Farming ✓			Fishing✓		Bathing		Other✓		
10	Location details	U/s of town or industrial area		D/s of town or industrial area ✓			Pilgrim center/Bathing Ghat/Water intake			None			
11	Flow rate												
12	Major polluting source	Industrial effluent		MSW✓		PW		None		Other✓			
13	Uses of water in downstream	Irrigation		Drinking water source			Fishing ✓		Domestic				
		Organized		Cultivation✓			Bathing		Others✓				
Sl.No	Determinants										Values		
1	Temperature, 0C										27		
2	Dissolved Oxygen, mg/l										6		
3	pH										7.29		
4	Conductivity, µmhos/cm										101		
5	BOD, mg/l										0.4		
6	Nitrate-N, mg/l										0		
7	Turbidity, NTU										0.6		
8	Phenolphthalein Alkalinity, mg/l										BDL		
9	Total Alkalinity, mg/l										16		
10	Chloride, mg/l										21		
11	COD, mg/l										4		
12	TKN, mg/l										BDL		
13	Ammoniacal-N, mg/l										BDL		
14	Hardness as CaCO3, mg/l										26		
15	Calcium as CaCO3, mg/l										18		
16	Magnesium as CaCO3, mg/l										8		
17	Sulphate, mg/l										5		
18	Calcium (Ca2+), mg/l										7.214		
19	Magnesium (Mg2+), mg/l										1.944		
20	Sodium, mg/l										12.4		
21	Total Dissolved Solids, mg/l										61		
22	Total Fixed Solids, mg/l										45		
23	Total Suspended Solids, mg/l										BDL		
24	Phosphate, mg/l										0.15		
25	Boron, mg/l										BDL		
26	Potassium, mg/l										2.74		
27	Fluoride, mg/l										BDL		
28	Total Coliform, MPN/100 ml										80		
29	Fecal Coliform, MPN/100 ml										20		
30	Fecal Streptococcus, MPN/100 ml										NIL		
31	% SODIUM										47.8		
32	SAR										1.1		

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

Station Name		PUZHAKKAL											
Type of Water body		RIVER											
Completed by		DO, THRISSUR											
Agency		KERALA STATE POLLUTION CONTROL BOARD											
1	Station Code	2	2	9	0								
2	Date and time of sample taken (DD/MM/YY, HH/MM)	0	2	0	9	2	0	2	5		2	30	PM
3	Weather	Cloudy			Clear✓			Windy			Raining		
4	Approximate depth of main stream	< 50 cm			50 – 100 cm			>100 cm✓			Flood		
5	Color & Intensity	Clear✓			Turbid			Green			Brown		
		1 = Light✓			2 = Moderate			3 = High					
6	Odour	None✓			Fishy			H2S			Other		
7	Floating Matter	Floating			Floating sludge			Oil & Grease			Water Hyacinth✓		
8	Visible effluent discharges in proximity	Industrial			Municipal sewage			None✓					
9	Human activities around the station	Cattle			Farming ✓			Fishing✓		Bathing		Other✓	
10	Location details	U/s of town or industrial area			D/s of town or industrial area ✓			Pilgrim center/Bathing Ghat/Water intake			None		
11	Flow rate												
12	Major polluting source	Industrial effluent			MSW✓		PW		None		Other✓		
13	Uses of water in downstream	Irrigation✓			Drinking water source			Fishing ✓		Domestic			
		Organized			Cultivation✓			Bathing		Others✓			
Sl.No	Determinants										Values		
1	Temperature, 0C										33		
2	Dissolved Oxygen, mg/l										7.4		
3	pH										7.52		
4	Conductivity, µmhos/cm										106		
5	BOD, mg/l										1.01		
6	Nitrate-N, mg/l										0.1		
7	Turbidity, NTU										0.7		
8	Phenolphthalein Alkalinity, mg/l										BDL		
9	Total Alkalinity, mg/l										17		
10	Chloride, mg/l										22		
11	COD, mg/l										16		
12	TKN, mg/l										BDL		
13	Ammoniacal-N, mg/l										BDL		
14	Hardness as CaCO3, mg/l										24		
15	Calcium as CaCO3, mg/l										16		
16	Magnesium as CaCO3, mg/l										8		
17	Sulphate, mg/l										4		
18	Calcium (Ca2+), mg/l										6.413		
19	Magnesium (Mg2+), mg/l										1.944		
20	Sodium, mg/l										13.2		
21	Total Dissolved Solids, mg/l										64		
22	Total Fixed Solids, mg/l										48		
23	Total Suspended Solids, mg/l										BDL		
24	Phosphate, mg/l										0.15		
25	Boron, mg/l										BDL		
26	Potassium, mg/l										2.8		
27	Fluoride, mg/l										BDL		
28	Total Coliform, MPN/100 ml										60		
29	Fecal Coliform, MPN/100 ml										40		
30	Fecal Streptococcus, MPN/100 ml										40		
31	% SODIUM										51		
32	SAR										1.2		

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

Station Name		KECHERI												
Type of Water body		RIVER												
Completed by		DO, THRISSUR												
Agency		KERALA STATE POLLUTION CONTROL BOARD												
1	Station Code	2	2	9	1									
2	Date and time of sample taken (DD/MM/YY, HH/MM)	0	8	0	8	2	0	2	5			11	50	AM
3	Weather	Cloudy			Clear✓			Windy			Raining			
4	Approximate depth of main stream	< 50 cm			50 – 100 cm			>100 cm✓			Flood			
5	Color & Intensity	Clear			Turbid✓			Green			Brown			
		1 = Light✓			2 = Moderate			3 = High						
6	Odour	None✓			Fishy			H2S			Other			
7	Floating Matter	Floating			Floating sludge✓			Oil & Grease			Water Hyacinth			
8	Visible effluent discharges in proximity	Industrial			Municipal sewage			None						
9	Human activities around the station	Cattle wading			Farming✓			Fishing✓		Bathing		Other✓		
10	Location details	U/s of town or industrial area			D/s of town or industrial area ✓			Pilgrim center/Bathing Ghat/Water intake			None			
11	Flow rate													
12	Major polluting source	Industrial effluent			MSW✓		PW		None		Other ✓			
13	Uses of water in downstream	Irrigation			Drinking water source			Fishing✓		Domestic				
		Organized			Cultivation✓			Bathing		Others✓				
Sl.No	Determinants											Values		
1	Temperature, 0C											28		
2	Dissolved Oxygen, mg/l											7.4		
3	pH											7.6		
4	Conductivity, µmhos/cm											105		
5	BOD, mg/l											0.5		
6	Nitrate-N, mg/l											0.1		
7	Turbidity, NTU											1.9		
8	Phenolphthalein Alkalinity, mg/l											BDL		
9	Total Alkalinity, mg/l											14		
10	Chloride, mg/l											28		
11	COD, mg/l											4		
12	TKN, mg/l											BDL		
13	Ammoniacal-N, mg/l											BDL		
14	Hardness as CaCO3, mg/l											24		
15	Calcium as CaCO3, mg/l											20		
16	Magnesium as CaCO3, mg/l											4		
17	Sulphate, mg/l											4.2		
18	Calcium (Ca2+), mg/l											8.016		
19	Magnesium (Mg2+), mg/l											0.972		
20	Sodium, mg/l											16		
21	Total Dissolved Solids, mg/l											73		
22	Total Fixed Solids, mg/l											54		
23	Total Suspended Solids, mg/l											BDL		
24	Phosphate, mg/l											0.03		
25	Boron, mg/l											BDL		
26	Potassium, mg/l											2.51		
27	Fluoride, mg/l											BDL		
28	Total Coliform, MPN/100 ml											20		
29	Fecal Coliform, MPN/100 ml											10		
30	Fecal Streptococcus, MPN/100 ml											NIL		
31	% SODIUM											56.1		
32	SAR											1.4		

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

Station Name		KECHERI												
Type of Water body		RIVER												
Completed by		DO, THRISSUR												
Agency		KERALA STATE POLLUTION CONTROL BOARD												
1	Station Code	2	2	9	1									
2	Date and time of sample taken (DD/MM/YY, HH/MM)	0	2	0	9	2	0	2	5			12	30	PM
3	Weather	Cloudy			Clear✓			Windy			Raining			
4	Approximate depth of main stream	< 50 cm			50 – 100 cm			>100 cm✓			Flood			
5	Color & Intensity	Clear			Turbid✓			Green			Brown			
		1 = Light✓			2 = Moderate			3 = High						
6	Odour	None✓			Fishy			H2S			Other			
7	Floating Matter	Floating			Floating sludge			Oil & Grease			Water Hyacinth			
8	Visible effluent discharges in proximity	Industrial			Municipal sewage			None						
9	Human activities around the station	Cattle wading			Farming✓			Fishing✓		Bathing		Other✓		
10	Location details	U/s of town or industrial area			D/s of town or industrial area ✓			Pilgrim center/Bathing Ghat/Water intake			None			
11	Flow rate													
12	Major polluting source	Industrial effluent			MSW✓		PW		None		Other ✓			
13	Uses of water in downstream	Irrigation			Drinking water source			Fishing✓		Domestic				
		Organized			Cultivation✓			Bathing		Others✓				
Sl.No	Determinants											Values		
1	Temperature, 0C											30		
2	Dissolved Oxygen, mg/l											7.3		
3	pH											7.7		
4	Conductivity, µmhos/cm											100		
5	BOD, mg/l											0.6		
6	Nitrate-N, mg/l											0.1		
7	Turbidity, NTU											2.3		
8	Phenolphthalein Alkalinity, mg/l											BDL		
9	Total Alkalinity, mg/l											17		
10	Chloride, mg/l											22		
11	COD, mg/l											8		
12	TKN, mg/l											BDL		
13	Ammoniacal-N, mg/l											BDL		
14	Hardness as CaCO3, mg/l											28		
15	Calcium as CaCO3, mg/l											20		
16	Magnesium as CaCO3, mg/l											8		
17	Sulphate, mg/l											4		
18	Calcium (Ca2+), mg/l											8.016		
19	Magnesium (Mg2+), mg/l											0.972		
20	Sodium, mg/l											15		
21	Total Dissolved Solids, mg/l											69		
22	Total Fixed Solids, mg/l											52		
23	Total Suspended Solids, mg/l											BDL		
24	Phosphate, mg/l											0.03		
25	Boron, mg/l											BDL		
26	Potassium, mg/l											2		
27	Fluoride, mg/l											BDL		
28	Total Coliform, MPN/100 ml											80		
29	Fecal Coliform, MPN/100 ml											20		
30	Fecal Streptococcus, MPN/100 ml											NIL		
31	% SODIUM											55.1		
32	SAR											1.3		

RIVER KADALUNDI

1 2. Malappuram Municipality - Short Term Solid & Liquid Waste Management Action Plan							
No.	Activity	Implementing agency	Time line	Progress in the month of August 2025	Progress in the month of September 2025	% of works completed	Details of works remaining
1.1	Slaughter house and Poultry house	Malappuram Municipality	April 2025	Land purchased	Land occupied	NA	NA
1.2	Valiyathodu Cleaning - 8 Km length	Malappuram Municipality	Completed	Cleaned	Cleaned	50%	Cleaned
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		Inspection and Cleaning activities doing	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		50%	New Building Constructi on 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%	
1.7	Identification of illegal outlets into storm water drains and fine imposed on such units.	Malappuram Municipality	Ongoing	ongoing	Inspection continuing	Inspection continuing & action taken	completed
cc	Biodegradable waste Bio bins – 376 Bucket compost – 269 Thumboormuzhi Aerobic bins - 9(schools) Biogas plant -55 Ring compost unit -6000,	Malappuram Municipality	March 2020 March 2020 March 2020 March 2020	Completed	Completed	100 % 100 % 100 %	Completed Completed Completed
1.9	Non biodegradable waste MCF Plastic shredding and Bailing New mcf	Malappuram Municipality	March 2020 Completed March 2020	Completed	Completed	100%	
1.1	Identification and monitoring of illegal activities CC tv Network installation	Malappuram Municipality	March 2020	Completed	Completed	Nil	NA
2.Kerala State Pollution Control Board							
No.	Activity	Implementing agency	Time line	Progress in the month of August 2025	Progress in the month of September 2025	% 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		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		100%	

1 1 2. Malappuram Municipality - Short Term Solid & Liquid Waste Management Action Plan							
No.	Activity	Implementing agency	Time line	Progress in the month of August 2025	Progress in the month of September 2025	% of works completed	Details of works remaining
2.3	Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc. in Malappuram Municipal area	KSPCB	Ongoing; Interval; Red – 1 month, Orange- 3 months, Green- 6 months		Ongoing	100%	
3.Ground Water Department							
No.	Activity	Implementing agency	Time line	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
3.1.	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks (Earlier status : As per Groundwater resources of Kerala, 2017 estimate a total number of 3 blocks (Mankada, Vengara and Malappuram) comes under the Kadalundi river basin. Out of three blocks Malappuram and Vengara are semi-critical blocks and the rest is a safe one, stage of groundwater extraction ranges from 69.43 % to 79.84%)	Ground water Department		No action included in the approved action plan to be performed by Ground Water Department			
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		No action included in the approved action plan to be performed by Ground Water Department			
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		No action included in the approved action plan to be performed by Ground Water Department			
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		No action included in the approved action plan to be performed by Ground Water Department			

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: (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 June 2025	Progress in the month of July 2025	Progress in the month of August 2025	% of works completed	Details of works remaining
1.1	Slaughter house and Poultry house	Malappuram Municipality	July 2020	Fund Requested	Fund Requested	Fund Requested	NA	NA
1.2	Valiyathodu Cleaning - 8 Km length	Malappuram Municipality	Completed	Cleaned	Cleaned	Cleaned	50%	Cleaned

1.3	Installation of screening net in the Valiyathode	Malappuram Municipality	December 2019	Inspected	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			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 Constructi on Process	New Building Constructi on 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	Completed	Completed		100%

	Thumboormuzhi Aerobic bins - 4 Biogas plant -55		March 2020 March 2020 March 2020	March 2020 March 2020 March 2020	Completed Completed	Completed Completed		100% 100%
1.9	Non biodegradable waste MCF Plastic shredding and Bailing Echo Kiosk	Malappuram Municipality	March 2020 Completed March 2020				DPR under preparation Unit Functioning	100%
1.10	Identification and monitoring of illegal activities CC tv Network installation	Malappuram Municipality	March 2020				Under Processing	Nil
2.Kerala State Pollution Control Board								

No.	Activity	Implementing agency	Time line	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 2025	% 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 frequency		
2.2	River water quality Monitoring - Thirurangadi, Kooriyad, Manikut, Hajiyarpally, Anakkayam, Oravambrum - State Water monitoring programme (SWMP)	KSPCB	Ongoing; Seasonal - Pre - monsoon, monsoon, post - monsoon			Ongoing; Monthly frequency		

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		
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3.Ground Water Department

No.	Activity	Implementing agency	Time line	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 2025	% works completed	Details of works remaining
3.1.	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited	Ground water Department		No action included in the approved action plan to be performed by Ground	No action included in the approved action plan to be performed by Ground	No action included in the approved action plan to be performed by Ground		

	<p>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%)</p>			Water Department	Water Department	Water Department		
3.2	Ground water	Ground water		No action	No action	No action		

	<p>recharging / rain water harvesting</p> <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>	Department		included in the approved action plan to be performed by Ground Water Department	included in the approved action plan to be performed by Ground Water Department	included in the approved action plan to be performed by Ground Water Department		
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</p>	Ground water Department		No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department		

	attached) (Map No: 7 attached))							
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		No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department		

**ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN KADALUNDY RIVER
AUGUST 2025 ALONG WITH HAJIYARPALLY**

SI.No	Name of point	PARAMETERS				
		pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	FC (cfu/100 ml)
1	Valiyangadi drain	6.7	6.7	1	3.2	80
2	Valiyangadi bypass drain	6.8	4.5	2.6	3.8	80
3	Valiyathod drain	7.3	6.1	2.8	4.0	100
4	Hajiyarpally	8.8	6.3	1.3	3.8	220



ASSISTANT SCIENTIST

RIVER TIRUR

IRRIGATION DEPARTMENT								
No.	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1.1.1	Strengthening the right side bund of Tirur- Ponnani puzha at Porur, ward no.I Tirur Municipality	Irrigation Department	6 Months	Work completed	Work completed		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		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	0%	0%		8%	More damages to the Apron and river bed has seen at site and work can't be continued using existing original estimate. Also Cracks on girders and settlement of 4 piers towards right bank has seen on 18/11/2023. So the work can be continued only after addressing the present issues. So while preparing the estimate based on the study report from KERI Peechi, the solution for the new issues also has to be finalised. Meeting held on 29/11/2023 at the office of CE I&A in the presence of CE IDR B 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 18.10 crores of the recast estimate has been submitted
3	4 TIRUR MUNICIPALITY – SHORT TERM ACTION PLAN							
No.	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1.2.1	Provide septic tank for nearest houses	Tirur Municipality	Dec 2019	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		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	Tender stage	Tender stage	project for cctv installation dropped and fencing has done	NA	Ongoing
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 constructingin 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 shallbe imposed onsuch units	Tirur Municipality		Ongoing	Ongoing	completed		Ongoing
5	6 Cheriyamundam Grama panchayat							
No.	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining

1.3.1	Fencing on bridge side Thalakkadatur	Cheriyamundam Grama panchayat	March 2020		Completed		100	
4.Kerala State Pollution Control Board								
No.	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1.4.1	River water quality Monitoring- Thalakkadathur National Water Quality Programme(NWMP)	KSPCB	Ongoing; Monthly frequency		Ongoing; Monthly frequently			
1.4.2	River water quality Monitoring State Water monitoring programme (SWMP)	KSPCB	Ongoing; Seasonal		Ongoing; 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		Ongoing			
No.	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1.5.1.	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks (Earlier status : As per Groundwater resources of Kerala, 2017 estimate a total number of 2 blocks (Tirur and Kuttippuram) comes under the Tirur river basin. These two blocks are semi-critical blocks and the stage of groundwater extraction ranges from 77.75 % to 77.92%)	Ground water Department	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T			
1.5.2	Ground water recharging / rain water harvesting (Earlier status : The average pre -monsoon groundwater level ranges from 6.14mbgl - 8.49 mbgl.)		NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T			

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)		NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T			
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.)		NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMEN T			
6. ACTION PLAN BY VARIOUS GRAMA PANCHAYATHS- Thalakkad, Vettom, Mangalam								
No.	Activity	Implementing agency	Time line	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1.6.1	Protection of Thirur Ponnani River	Thalakkad grama panchayath handover fund to District Panchayat	31.03.2020		Completed		100	
1.6.2	Installation of CC TV camera on Yetterikadavu Kunjulikkadavu Mangattiri Bridge, Aikkanchiri Bridge, Paravanna Bridge	Vettom - KS SECURITY SYSTEM	Spill over due to lack of fund		Project for installation of cctv camera with high specification is decided to include 2024-25 annual projects			
1.6.3	Installation of CC TV camera	Mangalam grama panchayath Win Plus Agency, Kondotty	Completed		Completed		100	
1.6.4	Haritha Keralam Thirur-Ponnani puzha protection	Mangalam grama panchayath Nirmithi Kendra, Kozhikkodu	31.03.2020		Completed		100	

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 August 23,2025
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 StandSTP-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 August2025</p> <p>BMW are being disposed scientifically through</p>
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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	100%	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%	nil
1.1.3	Repair and Rehabilitation of Koottayi Regulator cum Bridge across Thirur-Ponnani Puzha in Mangalam Grama panchayatin Malappuram Dist	Irrigation Department	18 Months	0%	0%	0%	8%	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 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 IDRb concluded to

								<p>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 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</p>
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.Based on the meeting minutes of the Technical Expert Committee, DPR of 18.10 crores of the recast estimate has been submitted to CE I&A TVM On 24/05/2025.

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TIRUR MUNICIPALITY – SHORT TERM ACTION PLAN

No.	Activity	Implementing agency	Time line	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 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	Tirur Municipality	March 2020	Completed	Completed	Completed	100%	Completed

	Centre Plastic Shredding Unit Segregation shed							
1.2.4	Slaughtering House	Tirur Municipality	December 2020	Work ongoing	Work ongoing	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	Tender Stage	NA	
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 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		Ongoing	Ongoing	Ongoing		

3	Cheriyamundam Grama panchayat							
No.	Activity	Implementing agency	Time line	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 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 June 2025	Progress in the month of July 2025	Progress in the month of August 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	KSPCB	Ongoing;			Ongoing		

	Monitoring State Water monitoring programme (SWMP)		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			Ongoing		

5.Ground Water Department

No.	Activity	Implementing agency	Time line	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August2025	% 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	Ground water Department		NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		

	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%)							
1.5.2	Ground water recharging / rain water harvesting (Earlier status : The average pre -monsoon groundwater level ranges from 6.14mbgl - 8.49 mbgl.)			NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		
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)			NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		
1.5.4	For regulating use of ground water for irrigation purpose, adopting good irrigation practices (Earlier status : The total irrigation draft in the			NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		

	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	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 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	Spill over due to lack of fund			Project for installation of cctv camera with high specification is decided to include 2024-25 annual projects		
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		

**ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN TIRUR RIVER
FOR THE MONTH OF AUGUST 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	6.7	5.0	2.1	3.6	760
2	Thazhepalam drain	6.8	5.1	2.1	3.8	1440
3	Naduvilangadi drain (old ponnanthodu)	Dried				
4	Annassery drain	Dried				
5	Canal at CV Land	Dried				
6	Canal at Mangalam thuruth	7.0	6.4	2.5	4.2	220
7	Canal at Pullooni	6.9	4.4	2.8	4.2	2800
8	Drain near Mangattiri bridge	Dried				
9	Drain near Ettirikkadavu bridge	6.9	4.4	3.7	4.8	2800
10	Epothingal	6.6	7.1	2.1	3.6	1280
11	Asarikkadav	6.6	5.9	2.1	4.2	2520
12	Kandanathkadav	Dried				
13	Pancharamoola	Dried				
14	Kakadav	6.7	4.8	2.7	4.4	2000
15	Kanathkadav	6.6	5.7	2.2	3.6	2000
16	Drain near tirur railway station	Dried				
17	Payyanangadi (kadayithodu)	6.5	4.0	2.7	4.4	1760


ASSISTANT SCIENTIST

NGT Progress Report for the Month of Aug 2025

Irrigation North Circle, Kozhikode						
Sl.No	Name of River and works	FS Amount and No.	AS Amount and No.	TS Amount and No.	Present status	Remarks
1	2	3	4	5	6	7
KALLAI RIVER						
1	Desilting of Kallai river from Kadappal to Kothu in Kozhikode Corporation.		Resolution No 50 dated 15/2/2021, 64 dated 30/12/2021 and 67 dated 7/7/2024 of Kozhikode Municipal corporation for Rs 1297.794 lakhs	IBKkd/2021-2022/2018/4170/IA dated 7/3/2022 of CE I&A for Rs. 798 Lakhs	site hand over on 12/09/2024	Dredging work completed 10% (Work halted due to Off season)
2	Providing chain linked fencing on both sides of Ibrahim bridge across Ibrahim shade of Kallai river in Kozhikode Corporation.				DPR Submitted for FS	DPR amounting to 2.52 lakhs submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd.20-07-2025
3	Providing fencing in Mooliyad road bridge at Kozhikode Corporation.		AS/590/23/33744 dated 04/03/2024 of CE I&A Tvm 16.00 lakhs	IRR/IA/EST.TS/16/2023 .S.1.1 dated 29/05/2024 13 lakhs	Work completed	(Work completed 100%)
4	GENERAL Providing chain linked fencing at Kallai River Both sides of Kothu Bridge in Kozhikode Corporation- General Civil Work		AS/590/23/33130 dated 07/02/2024 28.3 lakhs	IRR/IA/EST.TS/0928/20 22.S.1.1 dated 24/04/2024 28.3 lakhs	site hand over on 22/08/2024	Work completed 100%
KUTTIYADI RIVER						
1	Providing chain linked fencing on both sides of Gullikapuzha bridge across Kuttiyadi river in Vellan Pandiappath.		AS/590/23/33132 dated 07/02/2024 24.6 lakhs	IRR/IA/EST.TS/0970/20 22.S.1.1 dated 11/03/2024 24.2 lakhs	Work completed	Work completed on 8/11/2024

UPPALA RIVER						
1	Tying of net on both sides of the bridge - Rejuvenation work of Uppala river- providing fencing on both sides of Uppala NH bridge in Mangalady Gramapanchayath of Kanaragod district					As the proposed NH upgradation works are going on and these works are to be carried out along with the bridges which are part of the NH, it would not be desirable to carry these works now. A letter has been sent from Irrigation division Kanaragode to the Project Director,Project Implementation unit, NHAI Kannur for including fencing on both sides of bridges across uppala river which are under construction as part of NH66 widening
Tirur-Ponnappuzha						
1	General - NGT-Rejuvenation of polluted rivers - Tirur - Ponnappuzha - General civil work	Rx. 30.10 Lakhs AS No. AS/590/22/25906 dt: 29/03/2023 of CE, I&A, Tvm IS 30.10 Lakhs	Rs. 30.10 Lakhs TS No. BR/IA/EST_TS/4907/2022_S_1_1 dt: 18/04/2023 of EE, Irrigation Division, Malappuram.30.10 Lakhs	Work completed. Physical progress - 100%		Work completed bill paid(Rs 2984166/-including GST)
2	RK1 Repair and Rehabilitation of Koottayi Regulator over bridge across Tirur -Ponnappuzha in Mangalam Gramapanchayath in Malappuram District	Rs. 230 Lakhs, G.O(R)No. 122/2020/P &EA TVM, Dated 03/03/2020 Rs.230 Lakhs	Rx. 230 Lakhs, TS No. IDMP/2020-2021/2016/2656/IA dated 19/05/2020 of SE, INC, RKD, Rs.230 Lakhs	Work got stuck due to conditions at site		Cracks on girders and settlement of 4 piers towards right bank has seen on 10/11/2023. so the work can be continued only after addressing the present issues. So while preparing the estimate based on the study report from KRI Pochi, the solution for the new issues also has to be finalized. Meeting held on 29/11/2023 at the office of CE I&A in the presence of CE IDRR concluded to conduct a detailed technical study by an expert team to find a solution for the existing issues. It is assigned Kerala State Highway Research Institute to study and recommend - remedial solution for the existing issues. KRI Deputy Director conducted preliminary visit on 23/05/2024. A technical committee has been formed as per GO No. 488/2014/WRD dated 28/06/2014. Technical committee team inspected site on 08.08.2024. They suggested to conduct the hydrographic survey. Hydrographic survey team visited the site on 31.08.2024 to prepare the estimate. AS obtained for Rs.1,34,062/- for hydrographic survey. They completed the survey work. The hydrographic chart, reduced level chart and cut files submitted by hydrographic survey team are submitted to CE I & A TVM. Technical Committee meeting conducted on 10/12/24 and 10/01/25. Based on the meeting minutes of the Technical Expert committee, DPR of 18.10 crore of the recent Estimate has been submitted to CE I & A TVM on 24/05/2025.

B RAMAPURAM RIVER					
1	Rejuvenation of Ramapuram River-Providing fencing on Ramapuram bridge across Ramapuram river in Madhav Panchayath		AS/590/23/33743 dated 04/03/2024 10.00 lakhs	AS obtained	AS obtained as per Order No.AS/590/23/33743 dtd 04.03.2024. NOC received from KSTP on 9/1/2025 and TS issued on 7.02.2025 vide order No.IRR/IA/EST,TS/1905/2023,5,2,1. Agreement executed. Work started.


Superintending Engineer

Kozhikode Corporation										
No.	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1	Identification of illegal outlets into storm water drain and issue Notice to such units	Kozhikode Corporation	30.12.2020	Continuing random inspections and imposing fine regularly	Continuing random inspections and imposing fine regularly		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		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		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		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		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			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..	Project dropped due to Public protest and court cases..	<p>These two projects were dropped in AMRUT 1 project due to public protest and court cases.Instead of 2 STPs (6 MLD at Kothi & 7 MLD at Avikkal) the ULB decided to construct a single STP of 15 MLD at West Hill Industrial Estate for covering the same areas under AMRUT 2.0 project</p> <p>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 DPR submitted by the contractor is to be placed in the next SLTC/SHPSC of AMRUT-2.0 for approval of AS.Awaiting the SLTC meeting.</p>	<p>Project dropped due to Public protest and court cases.</p> <p>The ULB has executed 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 DPR submitted by the contractor is to be placed in the next SLTC/SHPSC of AMRUT-2.0 for approval of AS. The next SLTC is scheduled on 27.08.2025</p>	<p>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 DPR submitted by the contractor is to be placed in the next SLTC/SHPSC of AMRUT-2.0 for approval of AS.Awaiting the SLTC meeting.</p> <p>The payment to the PCB for Consent to Establish was made on 30.09.2025, and the details have been submitted to the PCB office, Kozhikode.</p> <p>Final approval is awaited. Since the site falls under the CRZ, all supporting documents have been prepared as per the directions of the KCZMA, and the scrutiny fee to KCZMA will be paid before 06.10.2025.</p> <p>Once the PCB consent is received, the proposal will be submitted to KCZMA for approval.</p>	Project dropped	
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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 (Saravaram) was received on 08.01.2024. Technical sanction is pending with the KWA</p>	<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 (Saravaram) was received on 08.01.2024. Technical sanction is pending with the KWA</p>	<p>AS issued on 08.01.2024. TS was issued on 13.12.2024. The tender was floated on 08.01.2025, and opened on 06.03.2025. Two bids were received, and the Tender evaluation was in progress at KWA. Both bids failed in the technical evaluation. Hence, the work was retended on 26.03.2025, Tender opened on 02.05.2025. 6 bidders participated. The technical bid evaluation was completed on 21.07.2025. The financial bid opened on 11.08.2025 and is 19.6 % above. Upon negotiation, the contractor reduced its claim to 11%. But one of the disqualified contractors approached the court. Hence, there is a court case. The KWA approached the corporation for approving the tender excess (14 Cr excluding the GST). But due to municipal fund constraints, The council requested the government to release the excess amount under the project head to proceed with the work, or else the work may be tendered under DBOT by keeping the approved amount. an agenda in this regard will be placed before the next SLTC meeting. The CRZ status report, EIA report, Disaster management report and risk</p>	<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 (Saravaram) was received on 08.01.2024. Technical sanction is pending with the KWA</p>		27 MLD STP with 220 KLD FSTP as co-treatment with 54 km network
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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	On going	On going		On going			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 MLD) plant Tender over 14.1 -2 MLD plant proposed 14.2- 1 MLD plant proposed	Kozhikode Corporation	31.03.2020	Completed and functioning.	Completed and functioning.		Completed and functioning.		100%	Functioning
16	Construction of drains at Y.M.RC Ayyankar colony	Kozhikode Corporation	31.03.2020	90% coverage	90% coverage		90% coverage		90%	Processing
17	Treatment facility for waste water in Central market	Kozhikode Corporation		3.MRF and 5.MCFare already existing. New project going on.	3.MRF and 5.MCFare already existing. New project going on.					New project under consideration
18	Establishment of comfort stations	Kozhikode Corporation		On going - Continuous process	On going - Continuous process				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 bhavanjanthinagar colony	Suchitwa Mission	Project in progress	Project started	3.MRF and 5.MCFare already existing. New project going on.		3.MRF and 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		Project under Consideration	Project under Consideration		On going - Continuous process		Ongoing - continuous process	Continuous
21	Establishment of Plastic shredding unit	Kozhikode Corporation	Project started	Project started	Project started		Project started			
22	Establishment of slaughtering unit	Kozhikode Corporation		Project under Consideration	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		On going - Continuous process			Continuous
Perumanna Grama Panchayath										
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining

1	Outlets into storm Water drain and issue notice	Perumanna Panchayat, kozhikode	Continues process	Inspection conducting regularly	Inspection conducting regularly		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)		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		Work completed		completed	
4	Setting up of residential treatment plant for chicken stall waste	Perumanna Panchayat	Continues procesS							
5	Setting up of 360 soak pit plant in all houses near the river area and panchayat	Perumanna Panchayat through MGNREGS	12/2021	Progressing 80% completed	Progressing 80% completed				80% completed	Processing
6	Implementation of 360 compost unit near river side and panchayat	Perumanna Panchayat , Kozhikode through MGNREGS	12/2021	Progressing 80% completed	Progressing 80% completed		Progressing 80% completed		80% completed	Processing
7	Implementation of water flow project (Aluvangal Thazham Perumbatta Elamanapadam, Valiyapadam.Mampuzhthode Naveekarana, project no 260/2021 project cost 16.67 Lakhs).	Perumanna Panchayat	12/2021	Technical sanction obtained. Tender procedure completed.	Technical sanction obtained. Tender procedure completed.		Technical sanction obtained. Tender procedure completed.			
8	Cleaning of Mambuzha river (project name : Mambuzha water flow restoration, project no 01/2018-19	District Panchayat , Kozhikode	2018 -2019	Work has been completed by District Panchayat, Kozhikode	Work has been completed by District Panchayat, Kozhikode		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.		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		Process will be done every year		Continous	Continous
Peruvayal Grama Panchayath										

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of work remaining
1	Outlet in storm water drain and issued notice	Peruvayal G P	Continuous process	Ongoing	Ongoing		Ongoing			Continous
2	Establishment of 56 units anaerobic composed unit in panchayat.	Peruvayal GP through MGNREGS	04/2023 to 03/2021	Ongoing	Ongoing		Ongoing		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	80% completed		80% completed		80% completed	No further progress reorted
7	Collection of plastic waste from the river	Peruvayal G P	Continuous process	Work completed	Work completed		Work completed		100%	
8	Collection and segregation of solid waste in the river	Peruvayal GP	Continuous process	Ongoing	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)		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) .		60% coverage	No further progress reorted

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

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of work remaining
1	Collection of plastic waste from the river	Olavanna Gramapanchayat	Continuous process	Completed	Completed		Completed		Completed	
2	Collection of segregation of solid waste in the river	Olavanna Gramapanchayat	Continuous process	Completed	Completed		Completed		Completed	
3	Cleaning of Mambuzha river	Olavanna Gramapanchayat	Continuous process	Completed	Completed		Completed		Completed	
4	Well recharge	Olavanna Gramapanchayat through MGNREGS	4/2023 To 3/2024	Completed	Completed		Completed		100%	
5	Setting up of soak pit in houses	Olavanna Gramapanchayat through MGNREGS	4/2022 To 3/2024	Completed	Completed		Completed		100%	
6	Action taken against dumping of waste in to river	Olavanna Gramapanchayat	Continuous process	Process continuing	Process continuing		Process continuing		100%	Completed
7	Collection of non - biodegradable waste	Harith karma sena	Throughout the year	Process continuing	Process continuing		Process continuing		Process continuing	Continous

Irrigation Department										
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1	Desilting of Kallayi river from Kaduppini to Kothi in Kozhikode Corporation	Irrigation department	31.03.21	Desiltation of Kallai river under urban agglomeration scheme SHO on 12.09.2024 and Dredging work started ,Work Completed 8%					10%	
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) Work 100% completed						
3	Dredging, Desilting & removal of weeds from E K Canal (11.2 km)	Irrigation department	31.07.19	Work entrusted to Kerala Waterways & Infrastructure Ltd (KWIL). DPR for “Canal City Project “ under preparation						
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 May 2025	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1	River water quality monitoring- Kallayi river National Water Quality Monitoring Programme (NWMP)	KSPCB	Ongoing; monthly frequency	Process continuing	Process continuing		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		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		Process continuing		Ongoing Interval: Red-1month. Orange - 3 months. Green - 6 months.	
Suchitwa Mission										
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
1	Board displaying messages against dumping to be placed in river banks	Suchitwa Mission	15.07.19	Process continuing	Process continuing		Process continuing			
Action Plan by Ground Water Department										

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of May 2025	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks (Earlier status: As per Groundwater resources of Kerala, 2017 estimate ,Kozhikkode Block comes under the Kallai river basin and the block is safe with stage of groundwater extraction 68.49%)			As per Ground water resources of Kerala,2017 estimate, Kozhikode Block comes under the Kallai river basin and the block is safe with stage of ground water Extraction 68.49%	As per Ground water resources of Kerala,2017 estimate, Kozhikode Block comes under the Kallai river basin and the block is safe with stage of ground water Extraction 68.49%		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		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.)		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.)		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 May 2025	Progress in the month of June 2025	Progress in the month of July 2025	Progress in the month of August 2025	Progress in the month of September 2025	% works completed	Details of works remaining
E	Dredging and desilting	Irrigation Dept	3 years	Desiltation of kallayi river under urban agglomeration. SHO on 12.09.2024 and Dredging work started, started Work Completed 10%	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)		10%	

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.		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.		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			Not reported

UPPALA RIVER - UPPALA BRIDGE (Existing NWMP Station)		
Sampling Point	Uppala Bridge	
NWMP Station Code	2306	
Latitude	12°41'41.7"N	
Longitude	74°54'16.9"E	
Date of Sampling	13.08.2025	
Nature and flow of the river	Moderate flow	
Sl.No	Parameters	Uppala Bridge
1	Temperature, 0C	26
2	Dissolved Oxygen, mg/l	7.3
3	pH	7.2
4	Conductivity, µmhos/cm	99
5	BOD, mg/l	0.7
6	Nitrate-N, mg/l	1.6
7	Turbidity, NTU	1.4
8	Phenolphthalein Alkalinity, mg/l	...
9	Total Alkalinity, mg/l	36
10	Chloride, mg/l	23
11	COD, mg/l	2.1
12	TKN, mg/l	...
13	Ammoniacal-N, mg/l	0.1
14	Total Hardness as CaCO ₃ , mg/l	25
15	Calcium as CaCO ₃ , mg/l	10
16	Magnesium as CaCO ₃ , mg/l	15
17	Sulphate, mg/l	5.9
18	Calcium (Ca ²⁺), mg/l	4
19	Magnesium (Mg ²⁺), mg/l	3.6
20	Sodium, mg/l	15.9
21	Total Dissolved Solids, mg/l	79
22	Total Fixed Solids, mg/l	63
23	Total Suspended Solids, mg/l	157
24	Phosphate, mg/l	0.011
25	Boron, mg/l	0.05
26	Potassium, mg/l	2.5
27	Fluoride, mg/l	0.48
28	Total Coliform, cfu/100 ml	7000
29	Fecal Coliform, cfu/100 ml	4200
30	Fecal Streptococcus, cfu/100 ml	180
31	% SODIUM	55.1
32	SAR	1.38

UPPALA RIVER - UPPALA RIVER NEAR BHAGAVATHI TEMPLE (Bhagavathi Gate) - (Proposed NWMP Station)			
Sampling Point	Uppala River Near Bhagavathi Temple (Bhagavathi Gate)		
Distance from existing NWMP Station	878.66 m		
Latitude	12°41'20.1"N		
Longitude	74°54'34.0"E		
Date of Sampling	13.08.2025		
Nature and flow of the river	moderate flow		
Sl.No	Parameters	Unit	Uppala River Near Bhagavathi Temple (Bhagavathi Gate)
1	Temperature	° C	26
2	pH	-	6.9
3	Conductivity	µmhos/cm	120
4	Turbidity	NTU	0.12
5	BOD	mg/l	1.3
6	Dissolved Oxygen	mg/l	7.1
7	Total Coliforms	cfu/100ml	8400
8	Faecal Coliforms	cfu/100ml	3100
9	Faecal Streptococcus	cfu/100ml	320
10	Chlorides	mg/l	19
11	Total Alkalinity	mg/l	27
12	Total Hardness	mg/l	28
13	Calcium Hardness	mg/l	13
14	Magnesium Hardness	mg/l	15
15	Calcium	mg/l	2.7
16	Magnesium	mg/l	3.6
17	Total Dissolved Solids	mg/l	77
18	Sodium	mg/l	11.2
19	Potassium	mg/l	2.2
20	Nitrate	mg/l	2.2

Sd/-
Assistant Scientist

Monthly Analysis report of river -Pullur- AUGUST 2025		
Sampling Date: 05/08/2025		
Station Name	RIVER PULLUR AT PULLUR BRIDGE	
Type of Water body	RIVER	
Sl.No	Determinants	Values
1	Temperature, 0C	26
2	Dissolved Oxygen, mg/l	7.2
3	pH	7.0
4	Conductivity, μ mhos/cm	74
5	BOD, mg/l	0.7
6	Nitrate-N, mg/l	0.7
7	Turbidity, NTU	0.6
8	Phenolphthalein Alkalinity, mg/l	-
9	Total Alkalinity, mg/l	21
10	Chloride, mg/l	12
11	COD, mg/l	2.1
12	TKN, mg/l	-
13	Ammoniacal-N, mg/l	0.1
14	Total Hardness as CaCO ₃ , mg/l	23
15	Calcium as CaCO ₃ , mg/l	15
16	Magnesium as CaCO ₃ , mg/l	8
17	Sulphate, mg/l	5.1
18	Calcium (Ca ²⁺), mg/l	6.0
19	Magnesium (Mg ²⁺), mg/l	1.9
20	Sodium, mg/l	8.5
21	Total Dissolved Solids, mg/l	58
22	Total Fixed Solids, mg/l	31
23	Total Suspended Solids, mg/l	190
24	Phosphate, mg/l	0.008
25	Boron, mg/l	0.03
26	Potassium, mg/l	1.1
27	Fluoride, mg/l	0.75
28	Total Coliform, MPN/100 ml	4900
29	Fecal Coliform, MPN/100 ml	1800
30	Fecal Streptococcus, MPN/100 ml	110
31	% SODIUM	53.0
32	SAR	0.95

Sd/

ASSISTANT SCIENTIST