

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

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

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

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

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

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

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

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

STATE WATER QUALITY MONITORING PROGRAMME (SWMP) 2025							
Analysis Report for the month of December- 2025							
Name of River		KARAMANA					
Date and Time of Sample collection		06-12-2025					
Method of analysis							
Sl no.	Parameters	SAMPLE ID					
		Peppara	Aruvikkara	Mangattukadavu	Pallathukadavu	Thiruvallom	Moonnattumukku
1	Temperature (°C)	29	30	29	29.5	29.4	30
2	Dissolved O2 (mg/L)	7.5	7.3	5.9	4.8	5.3	0.2 (BDL)
3	pH	6.7	6.6	6.6	6.7	6.7	7
4	Conductivity (µmho/Cm)	39	79	111	197	133	667
5	BOD (mg/L)	0.3 (BDL)	0.7 (BDL)	0.6 (BDL)	0.7 (BDL)	1.2	6.9
6	Nitrate - N (mg/L)	0.0 (BDL)	0.4	1.5	2.4	3	7.9
7	Turbidity (NTU)	1 (BDL)	1 (BDL)	1.1	1 (BDL)	1.4	4.1
8	Total Alkalinity (mg/L)	8 (BDL)	12 (BDL)	28	40	32	120
9	Chlorides (mg/L)	8	20	16	32	22	116
10	Ammonical N (mg/L)	0.0 (BDL)	0.0 (BDL)	0.1 (BDL)	0.0 (BDL)	0.2 (BDL)	5.1
11	Total Hardness (mg/L)	6 (BDL)	16	20	40	28	104
12	Ca as CaCo3 (mg/L)	4 (BDL)	8	16	24	24	64
13	Mg as CaCo3 (mg/L)	2 (BDL)	8	4 (BDL)	16	4 (BDL)	40
14	Sulphate (mg/L)	1.3 (BDL)	2.1 (BDL)	2.9 (BDL)	4.2 (BDL)	4.6 (BDL)	19.1
15	Sodium (mg/L)	5.3	10.6	10.9	20.2	12.8	64.2
16	Measured TDS (mg/L)	25	52.8	71.2	117	89	375
17	Total Phosphate (mg/L)	0.0009 (BDL)	0.0421 (BDL)	0.033 (BDL)	0.0027 (BDL)	0.0018 (BDL)	0.3508
18	Boron (mg/L)	0.00 (BDL)	0.00 (BDL)	0.01 (BDL)	0.01 (BDL)	0.02 (BDL)	0.50 (BDL)
19	Potassium (mg/L)	2.2	3.5	5.2	6.8	4.7	18.6
20	Total Coliform (MPN/100ml)	220	460	920	560	1100	17000
21	Fecal Coliform (MPN/100ml)	47	120	410	210	830	9300
22	SAR	0.96	1.15	1.05	1.39	1.05	2.74

[Signature]
03/11/2026

ASSISTANT ENVIRONMENTAL SCIENTIST

ANALYSIS REPORT OF RIVERS INCLUDED IN THE LIST OF PRS-2022 FOR THE MONTH OF DECEMBER 2025

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

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

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

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

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

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

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

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

WATER QUALITY DATA OF POLLUTED RIVER STRETCHES DECEMBER-2025

DISTRICT OFFICE, PATHANAMTHITTA

Date of Sampling: 20.12.2025

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


12/01/2026

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അസിസ്റ്റന്റ് സെക്ഷണിസ്റ്റ്

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

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

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

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

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES

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

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

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES

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

ACTION PLAN FOR RIVER PERIYAR, KERALA

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

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES

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

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

ACTION PLAN FOR RIVER PERIYAR, KERALA

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

ACTION PLAN FOR RIVER PERIYAR, KERALA

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

ACTION PLAN FOR RIVER PERIYAR, KERALA

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

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES

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

ACTION PLAN FOR RIVER PERIYAR, KERALA

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

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

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

ACTION PLAN FOR RIVER PERIYAR, KERALA

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

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

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

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

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

Sampling point: VETTUKADAVU

Sl. No	Parameter	Unit	05.10.2025	25.10.2025
1	Temperature	°c	31.2	31.2
2	pH		7.28	7.6
3	Conductivity	µS/cm	75.00	118
4	TDS	NTU	43.41	68.30
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	2.40	2.14
8	Chlorides	"	12.9	2
9	Hardness	"	50	21
10	D.O.	"	6.45	5.83
11	COD	"	1.28	3.24
12	Calcium	"	8	4.8
13	Magnesium	"	7.29	2.187
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.155	0.189
17	Hexa Chromium	"	0.049	0.053
18	Oil & Grease	"	1.92	2.92
19	Iron	"	0.377	0.817
20	Sulphides	"	BDL	BDL
21	Sulphates	"	5.938	5.238
22	Total Alkalinity	"	20	18
23	Nitrate	"	1.308	1.756
24	BOD	"	1.35	1.63
25	TC	"	180	660
26	FC	"	120	280
27	FS	"	100	100
28	Sodium	ppm	1.6	1.6
29	Potassium	ppm	0.82	0.32
30	SAR	meq/L	0.097	0.15

* TURBIDITY METER IS OUT OF ORDER

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

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

Sl. No	Parameter	Unit	05.10.2025	25.10.2025
1	Temperature	°c	31.5	31.1
2	pH		7.18	7.29
3	Conductivity	µS/cm	456.3	62.32
4	TDS	NTU	264.11	36.07
5	Turbidity	mg/L	*	*
6	Colour	"	20	20
7	SS	"	0.62	1.02
8	Chlorides	"	129.07	7.94
9	Hardness	"	110	16
10	D.O.	"	6.16	5.76
11	COD	"	2.04	2.04
12	Calcium	"	8	4.8
13	Magnesium	"	21.87	0.972
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.132	0.198
17	Hexa Chromium	"	0.046	0.055
18	Oil & Grease	"	1.72	1.86
19	Iron	"	0.274	0.738
20	Sulphides	"	BDL	BDL
21	Sulphates	"	9.844	2.143
22	Total Alkalinity	"	16	22
23	Nitrate	"	1.416	1.846
24	BOD	"	1.66	1.72
25	TC	"	1200	1520
26	FC	"	200	700
27	FS	"	540	200
28	Sodium	ppm	1	1.9
29	Potassium	ppm	0.4	0.62
30	SAR	meq/L	0.041	0.204

* TURBIDITY METER IS OUT OF ORDER

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

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

Sampling point: PUTHALAM KADAVU

Sl. No	Parameter	Unit	05.10.2025	25.10.2025
1	Temperature	°c	31.7	31.1
2	pH		6.75	7.4
3	Conductivity	µS/cm	56.01	106
4	TDS	NTU	32.42	61.06
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	2.80	1.44
8	Chlorides	"	7.94	23
9	Hardness	"	50	15
10	D.O.	"	6.16	4.78
11	COD	"	2.16	1.44
12	Calcium	"	4	4.8
13	Magnesium	"	9.72	0.729
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.136	0.189
17	Hexa Chromium	"	0.046	0.053
18	Oil & Grease	"	2.6	2.4
19	Iron	"	0.424	0.78
20	Sulphides	"	BDL	BDL
21	Sulphates	"	1.25	2.224
22	Total Alkalinity	"	16	20
23	Nitrate	"	1.308	1.667
24	BOD	"	1.26	0.74
25	TC	"	440	460
26	FC	"	100	380
27	FS	"	400	160
28	Sodium	ppm	1.8	0.82
29	Potassium	ppm	0.62	0.21
30	SAR	meq/L	0.109	0.091

* TURBIDITY METER IS OUT OF ORDER

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

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

Sampling point: PATHALAM BUND U/S

Sl. No	Parameter	Unit	05.10.2025	25.10.2025
1	Temperature	°c	B	B
2	pH		U	U
3	Conductivity	µS/cm	N	N
4	TDS	NTU	D	D
5	Turbidity	mg/L		
6	Colour	"	O	O
7	SS	"	P	P
8	Chlorides	"	E	E
9	Hardness	"	N	N
10	D.O.	"		
11	COD	"		
12	Calcium	"		
13	Magnesium	"		
14	Ammoniacal Nitrogen	"		
15	Free Ammonia	"		
16	Phosphates			
17	Hexa Chromium	"		
18	Oil & Grease	"		
19	Iron	"		
20	Sulphides	"		
21	Sulphates	"		
22	Total Alkalinity	"		
23	Nitrate	"		
24	BOD	"		
25	TC	"		
26	FC	"		
27	FS	"		
28	Sodium	ppm		
29	Potassium	ppm		
30	SAR	meq/L		

* TURBIDITY METER IS OUT OF ORDER

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

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

Sampling point: PATHALAM BUND D/S

Sl. No	Parameter	Unit	05.10.2025	25.10.2025
1	Temperature	°c	31.6	31.0
2	pH		6.90	7.2
3	Conductivity	µS/cm	282.10	64
4	TDS	NTU	163.28	36.87
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	3.60	0.42
8	Chlorides	"	79.4	9
9	Hardness	"	70	17
10	D.O.	"	6.6	4.42
11	COD	"	3.2	2.24
12	Calcium	"	16	6
13	Magnesium	"	4.9	0.486
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.127	0.189
17	Hexa Chromium	"	0.048	0.053
18	Oil & Grease	"	5.440	3.24
19	Iron	"	0.335	0.681
20	Sulphides	"	BDL	BDL
21	Sulphates	"	5.156	3.106
22	Total Alkalinity	"	18	22
23	Nitrate	"	1.380	2.097
24	BOD	"	2.47	0.25
25	TC	"	540	880
26	FC	"	380	200
27	FS	"	140	160
28	Sodium	ppm	1.4	1.8
29	Potassium	ppm	0.24	0.94
30	SAR	meq/L	0.078	0.188

* TURBIDITY METER IS OUT OF ORDER

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

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

Sampling point: MANJUMMAL BUND

Sl. No	Parameter	Unit	05.10.2025	25.10.2025
1	Temperature	°c	31.3	30.8
2	pH		7.00	7.2
3	Conductivity	µS/cm	197.3	96.24
4	TDS	NTU	114.20	55.70
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	2.20	0.81
8	Chlorides	"	44.7	17
9	Hardness	"	70	17
10	D.O.	"	6.04	4.91
11	COD	"	0.84	1.84
12	Calcium	"	12	4.8
13	Magnesium	"	7.29	1.215
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.132	0.203
17	Hexa Chromium	"	0.045	0.054
18	Oil & Grease	"	3.2	3.06
19	Iron	"	0.405	0.742
20	Sulphides	"	BDL	BDL
21	Sulphates	"	8.594	2.181
22	Total Alkalinity	"	16	22
23	Nitrate	"	1.29	1.65
24	BOD	"	2.14	1
25	TC	"	880	420
26	FC	"	340	360
27	FS	"	480	60
28	Sodium	ppm	0.92	0.72
29	Potassium	ppm	0.26	0.18
30	SAR	meq/L	0.051	0.075

* TURBIDITY METER IS OUT OF ORDER

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

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

Sl. No	Parameter	Unit	05.10.2025	25.10.2025
1	Temperature	°c	31.2	31
2	pH		6.9	7.06
3	Conductivity	µS/cm	124.40	65.98
4	TDS	NTU	72.00	38.19
5	Turbidity	mg/L	*	*
6	Colour	"	20	20
7	SS	"	1.06	2
8	Chlorides	"	25	7.94
9	Hardness	"	100	17
10	D.O.	"	6.3	4.3
11	COD	"	2.2	2.36
12	Calcium	"	16.0	5.2
13	Magnesium	"	14.58	0.972
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.179	0.174
17	Hexa Chromium	"	0.048	0.057
18	Oil & Grease	"	2.28	4.120
19	Iron	"	0.269	0.719
20	Sulphides	"	BDL	BDL
21	Sulphates	"	5	3.242
22	Total Alkalinity	"	16.0	22.0
23	Nitrate	"	1.326	1.756
24	BOD	"	1.11	0.9
25	TC	"	1560	600
26	FC	"	520	300
27	FS	"	400	360
28	Sodium	ppm	1.2	0.86
29	Potassium	ppm	0.64	0.11
30	SAR	meq/L	0.052	0.09

* TURBIDITY METER IS OUT OF ORDER

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

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

Sampling point: VETTUKADAVU

Sl. No	Parameter	Unit	05.11.2025	25.11.2025
1	Temperature	°c	30.6	30.5
2	pH		7.1	6.96
3	Conductivity	µS/cm	76.37	83.76
4	TDS	NTU	44.20	48.48
5	Turbidity	mg/L	*	*
6	Colour	"	20	20
7	SS	"	6.20	34.8
8	Chlorides	"	12.0	14
9	Hardness	"	22	19
10	D.O.	"	6.7	5.3
11	COD	"	2.04	2.24
12	Calcium	"	6.4	5.6
13	Magnesium	"	1.458	1.22
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.179	0.17
17	Hexa Chromium	"	0.054	0.049
18	Oil & Grease	"	1.72	0.84
19	Iron	"	0.644	0.054
20	Sulphides	"	BDL	BDL
21	Sulphates	"	12.344	6.56
22	Total Alkalinity	"	18	16
23	Nitrate	"	2.258	1.935
24	BOD	"	0.7	0.76
25	TC	"	800	160
26	FC	"	160	120
27	FS	"	60	160
28	Sodium	ppm	0.84	1.82
29	Potassium	ppm	0.22	1.02
30	SAR	meq/L	0.077	0.18

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

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

Sl. No	Parameter	Unit	05.11.2025	25.11.2025
1	Temperature	°c	31.4	30.5
2	pH		6.9	6.9
3	Conductivity	µS/cm	44.41	48.2
4	TDS	NTU	25.70	27.90
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	2	2
8	Chlorides	"	7.94	6.95
9	Hardness	"	22	13
10	D.O.	"	7.1	6.1
11	COD	"	1.64	1.08
12	Calcium	"	4	4.8
13	Magnesium	"	0.486	0.243
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.189	0.155
17	Hexa Chromium	"	0.044	0.044
18	Oil & Grease	"	1.86	3.64
19	Iron	"	0.396	0.452
20	Sulphides	"	BDL	BDL
21	Sulphates	"	4.688	1.406
22	Total Alkalinity	"	16	18
23	Nitrate	"	1.828	1.594
24	BOD	"	1.1	0.8
25	TC	"	540	120
26	FC	"	200	100
27	FS	"	60	140
28	Sodium	ppm	0.32	0.99
29	Potassium	ppm	0.2	0.26
30	SAR	meq/L	0.201	0.118

* TURBIDITY METER IS OUT OF ORDER

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

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

Sl. No	Parameter	Unit	05.11.2025	25.11.2025
1	Temperature	°c	30.9	30.5
2	pH		7.08	6.9
3	Conductivity	µS/cm	48.10	46
4	TDS	NTU	27.84	26.75
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	2.4	8.8
8	Chlorides	"	6.95	6.95
9	Hardness	"	11	12
10	D.O.	"	7.3	6.1
11	COD	"	2.08	2.16
12	Calcium	"	3.6	4.4
13	Magnesium	"	0.486	0.243
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.141	0.155
17	Hexa Chromium	"	0.045	0.044
18	Oil & Grease	"	2.2	2.36
19	Iron	"	0.569	0.504
20	Sulphides	"	BDL	BDL
21	Sulphates	"	4.688	1.563
22	Total Alkalinity	"	16	14
23	Nitrate	"	1.828	1.434
24	BOD	"	1.3	0.6
25	TC	"	1120	240
26	FC	"	60	80
27	FS	"	120	80
28	Sodium	ppm	0.66	1.08
29	Potassium	ppm	0.41	0.82
30	SAR	meq/L	0.208	0.134

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

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

Sampling point: PATHALAM BUND U/S

Sl. No	Parameter	Unit	05.11.2025	25.11.2025
1	Temperature	°c	30.8	30.4
2	pH		7.1	6.8
3	Conductivity	µS/cm	51	92
4	TDS	NTU	29.40	53.23
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	1.2	3.6
8	Chlorides	"	7.94	20.85
9	Hardness	"	13	15
10	D.O.	"	6.6	5.9
11	COD	"	2.84	1.12
12	Calcium	"	4	4.8
13	Magnesium	"	0.729	0.729
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.17	0.16
17	Hexa Chromium	"	0.045	0.045
18	Oil & Grease	"	5.32	1.6
19	Iron	"	0.363	0.433
20	Sulphides	"	BDL	BDL
21	Sulphates	"	5.156	1.406
22	Total Alkalinity	"	14	16
23	Nitrate	"	2.097	1.613
24	BOD	"	1.54	0.7
25	TC	"	1400	280
26	FC	"	220	200
27	FS	"	0	120
28	Sodium	ppm	0.89	2.72
29	Potassium	ppm	0.62	1.06
30	SAR	meq/L	0.106	0.302

* TURBIDITY METER IS OUT OF ORDER

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

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

Sampling point: PATHALAM BUND D/S

Sl. No	Parameter	Unit	05.11.2025	25.11.2025
1	Temperature	°c	30.8	30.6
2	pH		6.95	6.9
3	Conductivity	µS/cm	240.00	46
4	TDS	NTU	138.91	26.78
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	1.80	29.60
8	Chlorides	"	60.57	9.93
9	Hardness	"	62	20
10	D.O.	"	6.9	6
11	COD	"	1.68	2.16
12	Calcium	"	16.4	4
13	Magnesium	"	5.103	2.43
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.151	0.16
17	Hexa Chromium	"	0.051	0.044
18	Oil & Grease	"	2.2	1.2
19	Iron	"	0.574	0.452
20	Sulphides	"	BDL	BDL
21	Sulphates	"	7.5	1.094
22	Total Alkalinity	"	16	14
23	Nitrate	"	1.918	1.469
24	BOD	"	1.9	0.3
25	TC	"	80	240
26	FC	"	80	160
27	FS	"	240	160
28	Sodium	ppm	1.09	3.2
29	Potassium	ppm	0.98	2.6
30	SAR	meq/L	0.059	0.308

* TURBIDITY METER IS OUT OF ORDER

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

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

Sl. No	Parameter	Unit	05.11.2025	25.11.2025
1	Temperature	°c	30.8	30.7
2	pH		7.10	6.8
3	Conductivity	µS/cm	52.27	45.35
4	TDS	NTU	30.25	26.25
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	2	6
8	Chlorides	"	8.94	7.94
9	Hardness	"	10	14
10	D.O.	"	6.7	5.9
11	COD	"	2.08	0.84
12	Calcium	"	2.4	3.2
13	Magnesium	"	0.972	1.458
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.155	0.16
17	Hexa Chromium	"	0.044	0.044
18	Oil & Grease	"	1.24	2.48
19	Iron	"	0.541	0.48
20	Sulphides	"	BDL	BDL
21	Sulphates	"	4.688	1.25
22	Total Alkalinity	"	16	12
23	Nitrate	"	1.899	1.577
24	BOD	"	0.9	0.4
25	TC	"	540	320
26	FC	"	40	180
27	FS	"	20	140
28	Sodium	ppm	0.92	0.44
29	Potassium	ppm	0.55	0.12
30	SAR	meq/L	0.125	0.051

* TURBIDITY METER IS OUT OF ORDER

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

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

Sl. No	Parameter	Unit	05.11.2025	25.11.2025
1	Temperature	°c	30.7	30.8
2	pH		6.9	6.8
3	Conductivity	µS/cm	59.29	49.02
4	TDS	NTU	34.32	28.37
5	Turbidity	mg/L	*	*
6	Colour	"	20	20
7	SS	"	3.20	1.6
8	Chlorides	"	6.95	7.94
9	Hardness	"	15	17
10	D.O.	"	6.4	6.3
11	COD	"	3.6	2.48
12	Calcium	"	4	4.8
13	Magnesium	"	1.215	1.22
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.198	0.17
17	Hexa Chromium	"	0.046	0.044
18	Oil & Grease	"	2.6	1.12
19	Iron	"	0.649	0.438
20	Sulphides	"	BDL	BDL
21	Sulphates	"	4.063	1.25
22	Total Alkalinity	"	18	10
23	Nitrate	"	1.72	1.11
24	BOD	"	1.2	0.9
25	TC	"	200	280
26	FC	"	160	160
27	FS	"	200	120
28	Sodium	ppm	0.68	0.72
29	Potassium	ppm	0.23	0.23
30	SAR	meq/L	0.076	0.075

* TURBIDITY METER IS OUT OF ORDER

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

**POLLUTED RIVER STRETCH MONITORING PROGRAM
(DECEMBER 2025)**

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

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

**POLLUTED RIVER STRETCH MONITORING PROGRAM
(DECEMBER 2025)**

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

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

**POLLUTED RIVER STRETCH MONITORING PROGRAM
(DECEMBER 2025)**

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

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

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

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

KADALUNDY

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

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

KADALUNDY

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

TIRUR**2 IRRIGATION DEPARTMENT**

No.	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
1.1.1	Strengthening the right side bund of Tirur- Ponnani puzha at Porur, ward no.I Tirur Municipality	Irrigation Department	6 Months	Work completed			Work Completed. Bill Paid (Rs 2984168/- including GST)	Remarks-These two works are arranged as single work named as "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			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%. Civil work still stand due to issue in site.	Civil work still stand due to issue in site.		8%	<p>More damages to the Apron and river bed has seen at site and work can't be continued using existing original estimate. Also Cracks on girders and settlement of 4 piers towards right bank has seen on 18/11/2023. So the work can be continued only after addressing the present issues. So while preparing the estimate based on the study report from KERI Peechi, the solution for the new issues also has to be finalised.</p> <p>Meeting held on 29/11/2023 at the office of CE I&A in the presence of CE IDRb concluded to conduct a detailed technical study by an expert team. A Technical committee has been formed as per order number GO No.488/2024/WRD dated 28-06-2024. Technical committee team visited the site on 08.08.2024. As per the suggestion from technical committee, hydrographic survey conducted and drawings submitted to technical expert committee. Based on the meeting minutes of the Technical Expert Committee, DPR of 18.10crores of the recast estimate (IRR/IA/EST/7734/2024_5_1_1) has been submitted to CE, I&A on 31.05.2025.</p> <p>The project can be resumed only if the recast estimate is approved and</p>
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3	4 TIRUR MUNICIPALITY – SHORT TERM ACTION PLAN							
No.	Activity	Implementing agency	Time line	Progress in the month of October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
1.2.1	Provide septic tank for nearest houses	Tirur Municipality	Dec 2019	completed			100%	completed
1.2.2	Establishment of Solid waste Treatment Plant ThumboorMozhi Model Aerobic Bin	Tirur Municipality	March 2020	completed			100%	completed
1.2.3	Establishment of Non Degradable waste treatment Plant Resource Recovery facility Centre Plastic Shredding Unit Segregation shed	Tirur Municipality	March 2020	completed			100	completed
1.2.4	Slaughtering House	Tirur Municipality	December 2020	Renovation Work ongoing			80%	Work ongoing
1.2.5	Fencing on Bridgeside Thalakkadathur Bridge	Tirur Municipality	December 2020	completed			100	completed
1.2.6	Installation of CCTV Camera near the river Bank Thalakkadathur Bridge	Tirur Municipality	May 2020	Keltron was invited to tender for Rs.5 lakh.Keltron was not ready to take over due to the low amount.Local tender is being invited			NA	Keltron was invited to tender for Rs.5 lakh.Keltron was not ready to take over due to the low amount.Local tender is being invited
1.2.7	Planting of Bamboo seedlings on the river bank (Thazhepalam)	Tirur Municipality	June 2020	completed			100%	Ongoing
1.2.8	Renovation of Effluent treatment plant at fish Market AMC Granted ETP with Aeorobic System	Tirur Municipality	June 2019	completed			100%	completed
1.2.9	Setting up of STP at Private Bus stand	Tirur Municipality	June 2020	completed			100	completed

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

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

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

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

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

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

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

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

5	Cleaning of Mambuzha river (Mambuzha renovation) project no :190/2017 -18	District panchayat Kozhikode	2017 -2018	Completed	Completed		Completed	
6	Establishment of 8 numbers of mini MCF	Peruvayal GP through MGNREGS	04/2023 TO 03/2024	80% completed	80% completed		80% completed	No further progress reorted
7	Collection of plastic waste from the river	Peruvayal G P	Continuous process	Work completed	Work completed		Work completed	
8	Collection and segregation of solid waste in the river	Peruvayal GP	Continuous process	Ongoing	Ongoing		Ongoing	Continous process
9	Establishment of Bio gas plant	Peruvayal G P	2023 -24	Work completed (70% coverage)	Work completed (70% coverage)		Work completed (70% coverage)	No further progress reorted
10	Well recharge	Peruvayal GP through MGNREGS	2023 -24	Work completed (60% coverage) .	Work completed (60% coverage) .		Work completed (60% coverage) .	No further progress reorted

Mavoor Grama Panchayat

No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of work remaining
1	Transportation of waste management to refinement unit	Konnari Advanced Polymers Limited	2022-23	Completed	Completed		100%	
2	Cleaning of Cherupuzha (Kuniyakadav to Thenghilakadav)	Mavoor GP	2022-23	Completed	Completed		100%	
3	Valayannor Thodu cleaning	MGNREGS	2022-23	Completed	Completed			
4	Arayancode kalchira Thodu Cleaning	MGNREGS	2022-23	Completed	Completed			
5	Vellaram Kandi Chirakkal thazham thodu	Mavoor GP	2023-24	Completed	Completed		100%	
6	Ring compost	Mavoor GP	2023-24	Completed	Completed			
7	Kadayam thodu	MGNREGS	2023-24	Completed	Completed		100%	

8	Chalippadam Punchappadam thodu	MGNREGS	2023 -24	Completed	Completed		100%	
9	Puthiyottil thazham Elaram thodu	MGNREGS	2023 -23	Completed	Completed		100%	

OLAVANNA GRAMAPANCHAYAT

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

Irrigation Department

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

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

B(ii)	Ground water recharging / rain water harvesting (Earlier status : The average pre-monsoon groundwater level is 7.23mbgl. Groundwater Department has implemented 3 no of dug well recharge schemes at Kozhikkode block)			The average pre - monsoon ground water level is 7.23 mbgl. Ground water Department has implemented 3 no of dug well recharge schemes at Kozhikkode block	The average pre - monsoon ground water level is 7.23 mbgl. Ground water Department has implemented 3 no of dug well recharge schemes at Kozhikkode block			
B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps (Earlier status - Groundwater Department has 1 observation piezometer (BW)in the river stretch.)			Ground water Department has 1 observation Piezometer (BW) in the river stretch.)	Ground water Department has 1 observation Piezometer (BW) in the river stretch.)			
B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices (Earlier status - The total irrigation draft in the block area is 488.76 ha.m.)			The total irrigation draft in the Block area is 488.76 ha.m.)	The total irrigation draft in the Block area is 488.76 ha.m.)			

Action plan by irrigation Department

No. (as per Action Plan)	Activity	Implementing agency	Time line	Status as on October 2025	Status as on November 2025	Status as on December 2025	% works completed	Details of works remaining
E	Dredging and desilting	Irrigation Dept	3 years	Desiltation of kallayi river under urban agglomeration. SHO on 12.09.2024 and Dredging work started, started Work Completed 10% (Work halt due to off season)	Desiltation of kallayi river under urban agglomeration. SHO on 12.09.2024 and Dredging work started, started Work Completed 10% (Work halt due to off season)		12%	
E	E-flow (by micro water shed management)	Irrigation Dept	3 years	Action to be taken by the hydrology wing of irrigation department as this needs data collection, scientific analysis and modeling skills. The matter has been communicated to the Hydrology wing Assistant Engineer at Kozhikkode.	Action to be taken by the hydrology wing of irrigation department as this needs data collection, scientific analysis and modeling skills. The matter has been communicated to the Hydrology wing Assistant Engineer at Kozhikkode.			

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



KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

REGIONAL OFFICE, KOZHIKODE

Phone: 0495-2300744 Mail: pcbrokkd@gmail.com Website: kspcb.kerala.gov.in
3rd FLOOR, ZAMORIN'S SQUARE, LINK ROAD, KOZHIKODE - 673 002



LIFE

7/01/26



ANALYSIS REPORT OF RIVER WATER

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

Test method variation: None

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

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

Abdul P
6/1/26

Scientist in charge

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

1. Short Term Plan

Maintenance and de-bottle necking of existing sewerage network

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

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

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

								<p>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. Work 58% completed. Four pile caps under construction. Work will be completed within 60 days. Box culvert work 100%completed. For another work 26% completed. No further progress in the work by the contractor after March 2024. The contractor steps back from contract. Recommended to terminate the work and arrange the work at risk and cost. But, now the contractor restarted the work. Trial HDD done. Delay occurred due to pubic protest for changing the alignment. Work will be completed within 30 days.</p>
2.1.11	Procurement of sewer cleaning machines and equipment maintenance	Kerala Water Authority	Mar 2020	0%	0%	0%	100%	Work Completed.

1. Long Term Works

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

3.1.7	Additional STP requirement						<p>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</p> <p>Cluster 1 was revised including Zone 1&5 for Rs.91.00Cr and Zone 3&4 for Rs.66.50Cr and was submitted to Corporation on 28.12.2023 for getting AS under UIDF. AS received for thesetwo works and workstendered. As the two bidders who quoted for the Tender of Cluster 1- (ZONE-III Kalady Part) and (ZONE-IV - Attukal Part) was disqualified the tender was cancelled and retendered the work. Two bidders participated in the tender and they failed in prequalification process, hence work retendered. Three bidders participated for the tender and prequalification is under process. In case of Cluster I zone I&V,also the two bidders who quoted the tender were disqualified. Estimate re-casted and TS issued. Corporation directed to separate Zone I and tender the work and prequalification is under process. Cluster 3, which was originally consisting of Thiruvallam, Poonkulam and Vellar is the second in the priority list and was taken up. This Cluster is then modified by adding more wards and is divided into 3 zones. Zone 1 of cluster 3 is consisting of Puthenpally and Part of Muttathara (until STP) was taken up on priority based on the demand of Thiruvananthapuram Corporation. DPR of Cluster 3 Zone 1, Puthanpalli ward for 1.5 MLD Sewerage network with 5 year O&M and without centage</p>
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							<p>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, 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.</p>
	Total Amount		5000Crs.				

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

Chief Engineer (Sewerage PPD& WASCON)

WORKS UNDERTAKEN AS PART OF ACTION PLAN

STATE PLAN 2021-22

SI No.	Name of Work	Implementing office	Source of fund	Time line	Status
1	TSS - Providing and laying 300mm dia main and 200mm SW branch sewer line towards Sreekrishna Nagar 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		Completed
55	TSS-Standardization of electrical installation of 315 KVA substation at Kannammoola pump house	Sewerage Division, KWA, Trivandrum	State Plan		Completed
56	TSS -Providing and laying 200 mm SW sewer line at Thamarabthagam 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		Completed

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

25	State Plan 2022-23 -TSS- Providing and laying 200 mm SW sewer line from house No 63 to 70 at CSM Nagar under Sewerage Section,Sasthamangalam- Additional AS	Sewerage Division, KWA, Trivandrum	State Plan		Completed
26	State Plan 2022-23-TSS- Replacing of old and damaged 150 mm SW sewer line with 200 mm SW sewer line from house no J47 to J16 at Janvilla Lane, Sasthamangalam ward under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
27	State Plan 2022-23 - TSS- Replacing of old and damaged 225 mm SW sewer line from Vazhuthacadu NC Hospital 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 Ponkala 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 Ponkala 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 Ponkala 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 o f manhole covers in LEFT and WEST R C area under Sewerage Section ,Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2025	Completed
16	State Plan 2023 - 24 - TSS - Providing and laying 200 mm SW sewer line at Subramoniam lane near Edapazhinji	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Completed
17	State Plan 2023-24-TSS- Replacing of old and damaged 100 mm sewer line .with 200 SW sewer line in Kowdiar SS Kovil F lane	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
18	State Plan 2023-24-TSS- Providing and laying250mm SW sewer line from Paloor lane House no.KPRA A55(2) to Koonamkulam pond near transformer	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Completed
19	State Plan 2023-24-TSS- Replacing of old and damaged 150&200 mm SW sewer line with 300mm SW sewer line from Artech Rama Appartment through Panicker's lane F lane	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
20	State Plan 2023-24-TSS- Providing CI manhole cover , raising of cover slab in road level and levelling the undulated portion of Kedaram lane and branch road of Pattom ward	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Completed
21	State Plan 2023-24-TSS- Replacing of old and damaged 100 &150 mm SW sewer line with 200 SW sewer line in Kanaka Nager Residence area	Sewerage Division, KWA, Trivandrum	State Plan	31.06.2025	Completed

22	State Plan - 2023-24-TSS- Reconstruction of old dilapidated brick manholes with RCC and raising of manhole cover in the central and right RC area under Sewerage Section,Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
23	State Plan - 2023-24-TSS- Reconstruction of old dilapidated brick manholes and construction of New manholes in various places at Palkulangara, Pettah ward, manhole cover sewerage section -1	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 Thycaadu wards	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Agreement Executed

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

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

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

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

STATE PLAN 2024-25

Sl 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	Work ongoing

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

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

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

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

39	State Plan-2023 -2024 - NGT Rectification of breakage line towards Pattoor Pump House from narrow lane between Indian Veneer Company and canal(Amayizhanjan thodu) near Pattoor junction-under Sewerage section no II, Kuriathy-Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan		Work ongoing
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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		Agreement Executed
3	State plan - 2025-26- Tagore Garden - Replacing of old and damaged SW Lines with new higher sized sewer lines in Medical college, Tagore Garden towards Thamarabhagam.	Sewerage Division, KWA, Trivandrum	State Plan		Tendered
4	State plan - 2025-26- Replacing of old, under sized and damaged sewer line with new SW Sewer line, Rajiv nagar - Sewer work.	Sewerage Division, KWA, Trivandrum	State Plan		Tender evaluation
5	State plan - 2025-26- Replacing of old, under sized and damaged see lines with New SW line from Ration shop near Kattachal Bhagavathy Temple towards Bhagavathy Lane	Sewerage Division, KWA, Trivandrum	State Plan		Tender evaluation
6	State plan - 2025-26- Replacing of old, under sized and damaged sewer line with new SW Sewer line near Asif Biryani Hotel at Kesavadasapuram - Ulloor Road.	Sewerage Division, KWA, Trivandrum	State Plan		Agreement Executed
7	State plan - 2025-26- Providing and laying SW sewer line near Sabarigiri School and varies places in Kuravankonam Ward.	Sewerage Division, KWA, Trivandrum	State Plan		Tender evaluation

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

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

23	State Plan 2025-26 Replacing damaged lines and re construction of dilapidated manholes near Shiveli Nagar, Thengapura line, Elangam vilakam line, Venkidathu line, Mepalli garden, Varuvilkathu line near MKK Nair road. Sewerage Work.	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
24	State Plan 2025-26 – TSS - Reconstruction of old dilapidated brick manholes and construction of new manholes in various places under Sewerage Section -1 - Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
25	State Plan 2025-26 - Rehabilitation of sewer main at Noolkkadamukku Thycaud - General Civil Work	Sewerage Division, KWA, Trivandrum	State Plan	AS Received
26	State Plan 2025-26 - Providing Sewerage line extension at Thyvila road, Manjalikulam - General Civil Work	Sewerage Division, KWA, Trivandrum	State Plan	AS Received

AMRUT

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

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

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

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

SMART CITY

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

2	Deposit work - Smart city Thiruvananthapuram Ltd - Reconstruction/Maintenance of Sewerage system from Zam - Zam hotel to Palayam traffic lant 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 Thampannoor road) (Road ID - 117-Part-2 portion) due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed

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

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

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

MLA- ADS

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

National Mission for Clean Ganga

**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 DECEMBER 2025

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT- Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2025	Projects for to be taken
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	„	„
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning	„	„
5	Chief Secretaries may set up appropriate monitoring mechanism at state level <ul style="list-style-type: none">• Specifying accountability of nodal authorities not below the Secretary level• Chief Secretaries may have an accountable person attached in their office for this purpose	NA	-
	<ul style="list-style-type: none">• Monitoring at State level must take place	NA	-
6	Progress report may be furnished by the State/UTs to <ul style="list-style-type: none">• Secretary, Ministry of Jal Shakti• Member Secretary, CPCB	NA	-
6.	Progress Report may be comprised of details along with		

1	<p>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</p>		<p>Presently no STP in the panchayat</p> <p>Presently no CETP or ETP in the panchayat</p> <p>Door to door plastic waste collection, Supply of waste bins, Construction of compost pits etc.</p> <p>Not Available</p> <p>Biomedical waste disposed through IMAGE , Plastic waste collected door to door by Haritha Karma Sena</p> <p>Yes, Going On</p>
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	<p>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>-</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 OCTOBER 2025	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% works completed	Details of works remaining
A(a)	No industries	-	-					

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

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

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

ACTION BY GROUND WATER DEPARTMENT

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

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

National Mission for Clean Ganga

**Format for Submission of Monthly Progress Report by States/UTs
(Hon'ble NGT in the matter of OA No.673/2018 dated 06.12.2019)**

RIVER PAMBA, PATHANAMTHITTA(DECEMBER 2025)

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT- Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2025	Projects for to be taken
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	,,	,,
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning	,,	
5	Chief Secretaries may set up appropriate monitoring mechanism at state level <ul style="list-style-type: none"> • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose 	NA	-
	<ul style="list-style-type: none"> • Monitoring at State level must take place 	NA	-
6	Progress report may be furnished by the State/UTs to <ul style="list-style-type: none"> • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB 	NA	-
6.1	Progress Report may be comprised of details along with		

<p>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</p>		<p>Presently no STP in the panchayat</p> <p>Presently no CETP or ETP in the panchayat</p> <p>Door to door plastic waste collection, Supply of waste bins, Construction of compost pits etc.</p> <p>Not Available</p> <p>Biomedical waste disposed through IMAGE , Plastic waste collected door to door by Haritha Karma Sena</p> <p>Yes, Going On</p>
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	<p>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>Yes, Going On</p> <p>Yes, Going On</p>
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ACTION PLAN FOR RIVER PAMBA, KERALA

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% 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 Niranam	31.03.2021	No new project taken Niranam Gramapanchaya t is an upper	No new project taken Niranam Gramapancha	-	-

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

		Kadapra Panchayath		has resolved to identify all polluting invloved in pollution of river resources and iniation of penal against them	the report		
C	Establishment of Material Collection Facility	Mannar Niranam	31.03.2021	Civil work completed MCF construction completed .13 mini MCF implemented in all wards .	CIVIL WORK & ELECRIFICATION Completed Not submitted the report	70%	flooring completed

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

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

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

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

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

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

ACTION BY GROUND WATER DEPARTMENT

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

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

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

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 October 2025	Progress in the month of November 2025	Progress in the month of December 2025	% works completed	Details of works remaining
A(a)	Monitoring of river water quality	Kerala State Pollution Control Board	Continuing project				100%	NIL
A(b)	Rendering Plant at Eraviperoor or Thiruvalla	Eraviperoor/ Thiruvalla local body	31.03.2021				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 October 2025	Progress in the month of November 2025	Progress in the month of December 2025	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	31.03.2021					
2	B(ii)	Ground water recharging / rain water harvesting in Govt offices	31.03.2021					
3	NGT order in O.A	NGT order in O.A no.496/2016	31.03.202					

	no.496/2016 Identification of illegal bore wells in the catchment area.	Identification of illegal bore wells in the catchment area.	1					
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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 September 2025	Progress in the month Of October 2025	Progress in the month Of November 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	No progress in renovation observed. The mechanical machinery needs complete replacement. The estimate was recast . Civil work is almost complete. The tender for mechanical work was re-issued, and the work order will be issued soon. Steps are being taken to obtain PCB consent . Committee suggested speeding up completion.	All the mechanical machinery of the STP needs to be replaced for the renovation. The estimate was recast. Electrical work and civil work are almost complete. Re-tender was called for the mechanical work, and the work order was issued. Steps will be taken to obtain PCB consent for the STP. Access to the Sewage Treatment Plant has been obstructed by the Adwaitasramam by constructing a wall. Consequently, a notice for the removal of this impediment has been sent by the Municipality, The matter was already addressed to the district collector & in the next week a meeting is scheduled by the District collector.	All the mechanical machinery of the STP needs to be replaced for the renovation. The estimate was recast. Electrical work and civil work are almost complete. Re-tender was called for the mechanical work, and the work order was issued. Steps will be taken to obtain PCB consent for the STP. Access to the Sewage Treatment Plant has been obstructed by the Adwaitasramam by constructing a wall. Consequently, a notice for the removal of this impediment has been sent by the Municipality, The matter was already addressed to the district collector & in the next week a meeting is scheduled by the District collector.		
(b)	Augmentation and Revamping of existing STP at Aluva Market and to	Aluva Municipality	2021	₹48 crore administrative sanction for market reconstruction under PMSSY obtained, and DPR prepared. Reconstruction includes a higher capacity ETP (IMLD) ; the lower capacity ETP proposed for the fish market will be omitted. An application	The reconstruction of the Aluva General Market has received administrative sanction for Rs. 48 Crore under PMSSY, and the DPR has been prepared. The reconstruction of the market includes an ETP with increased capacity (1 MLD). Since an ETP with increased capacity is	The reconstruction of the Aluva General Market has received administrative sanction for Rs. 48 Crore under PMSSY, and the DPR has been prepared. The reconstruction of the market includes an ETP with increased capacity (1 MLD). Since an ETP with increased capacity is		

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

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

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

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

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

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

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

				<p>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>				
(b)	<p>Identification of natural drains/thodu reaching river Periyar and cleaning of weeds, grasses etc</p>	<p>Irrigation department</p>	<p>2 years</p>	<p><u>Minor Irrigation</u></p> <p>An 8 crore rupee project called Kalamassery with Agriculture is underway.It includes desilting of 40 canals, 7 culverts, and 2 sluicers. 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></p> <p>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>Minor Irrigation: Cleaned 23 streams in Eloor Municipality. The project "KrishikkopamKalamassery" worth Rs.8 Crore is ongoing. This includes the desilting of 40 streams, 7 culverts, and 2 sluicers. Desilting&deweedingof 25 streams has been completed in Karumalloor region. 80% of the work on 7 culverts has been completed.</p> <p><u>Major Irrigation:</u></p> <p>The work of cleaning, weed removal, and side protection has been arranged for one of the thodus, "Erezhuchaal Punchathodu." However, the work could not be commenced due to complaints from nearby residents regarding encroachment. Accordingly, the Assistant Executive Engineer, Additional Irrigation Sub-Division, Aluva, has requested the Bhoorekha Tahsildar, Paravoor, to carry out boundary demarcation. A letter has also been addressed to the District Collector to expedite the demarcation works..</p> <p><u>1. Kuthu thodu</u></p>	<p>Minor Irrigation: Cleaned 23 streams in Eloor Municipality. The project "KrishikkopamKalamassery" worth Rs.8 Crore is ongoing. This includes the desilting of 40 streams, 7 culverts, and 2 sluicers. Desilting&deweedingof 25 streams has been completed in Karumalloor region. 80% of the work on 7 culverts has been completed.</p> <p><u>Major Irrigation:</u></p> <p>The work of cleaning, weed removal, and side protection has been arranged for one of the thodus, "Erezhuchaal Punchathodu." However, the work could not be commenced due to complaints from nearby residents regarding encroachment. Accordingly, the Assistant Executive Engineer, Additional Irrigation Sub-Division, Aluva, has requested the Bhoorekha Tahsildar, Paravoor, to carry out boundary demarcation. A letter has also been addressed to the District Collector to expedite the demarcation works..</p> <p><u>1. Kuthu thodu</u></p>		

				<p>Kuthuthode (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>	The desilting work of kuthu thodu has been completed under operation vahini 2025-26.	The desilting work of kuthu thodu has been completed under operation vahini 2025-26.		
(iii)	Clearing of weeds, grasses at the river bank in order to ensure the smooth flow of water	Irrigation department	3 years	<p>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.</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>	The first phase of the work for removing weeds in the upstream and downstream reaches of the Pathalam RCB is in progress (GENERAL-NGT - Works-Periodic Cleaning works-Removal of water hyacinth from the Upstream and Downstream of Pathalam Lock cum Regulator at Eloor Municipality in Ernakulam District-2024-25-General Civil Work – Rs.13 Lakhs). This activity is planned to be carried out three times a year to ensure the river remains clean at all times.	The first phase of the work for removing weeds in the upstream and downstream reaches of the Pathalam RCB is in progress (GENERAL-NGT - Works-Periodic Cleaning works-Removal of water hyacinth from the Upstream and Downstream of Pathalam Lock cum Regulator at Eloor Municipality in Ernakulam District-2024-25-General Civil Work – Rs.13 Lakhs). This activity is planned to be carried out three times a year to ensure the river remains clean at all times.		
(a)	Maintaining of Minimum flow in river during	Irrigation department	3 years	The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has	As part of the water management, shutters are being operated as required. The draft Shutter Operation Protocol	As part of the water management, shutters are being operated as required. The draft Shutter Operation Protocol		

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

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

(a)(iv)	Installation of additional continuous online River water monitoring station	KSPCB	2022	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	Real time water quality monitoring stations has been installed at the upstream & downstream side of pathalambund.	Real time water quality monitoring stations has been installed at the upstream & downstream side of pathalambund.	1 0 0	
(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Kadungallur Panchayath	2020	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	Establishments dumping sewage are identified, and fines are collected.	Establishments dumping sewage are identified, and fines are collected.	5 0 %	
	Installation of cameras at the waste dumping spots	Kadungallur Panchayath	2020	A ₹15 lakh project for installing 33 cameras in 28 dumping spots is ongoing. Cameras are installed; only the cable connection is pending.	42 cameras have been installed currently.	42 cameras have been installed currently.	5 0 %	
(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Choornikkara Panchayath	2020	Inspection is being conducted. Waste dumping fine:- January - 1,1000/- February- 7000/- March- 25,000/-	Inspections are being conducted, the panchayat is directed to update the details of fines collected recently, if any.	Inspections are being conducted, the panchayat is directed to update the details of fines collected recently, if any.		

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

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

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

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

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

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

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

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

NGT Progress Report for the Month of November 2025

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

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

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

3	*Rejuvenation of Perumba River- Desilting Perumba thodu in Payyannur Municipality, Payyannur LA in Kannur District				DPR Submitted for FS	<p>The flow in the perumba thodu is contaminated with the waste from Payyannur market and its surroundings. If the existing SWECB was reconstructed and its shutters were closed, the polluted water may get stagnated at the upstream side may cause serious environmental problems will be created. Hence at present construction of SWECB is not environmentally feasible. If treatment facility is provided by local self government and only fresh water releases to thodu, the SWECB can be reconstructed. Hence now only the desilting the thodu is included in the estimate and submitted for FS as per DSR 2018, for an amount of 5.46 lakhs vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023 & 19/08/2023. DPR of amount of Rs. 6.21 lakh prepared as per DSR 2021 is submitted for Fs vide this office letter No. INC-SE-KKD/69/2025-D5 Dtd. 07/11/2025 This work comes under the jurisdiction of MI Division Kannur,</p>
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B RAMAPURAM RIVER					
1	Rejuvenation of Ramapuram River-Providing fencing on Ramapuram bridge across Ramapuram river in Madayi Panchayath.		AS/59D/23/33743 dated 04/03/2024 19.00 lakhs		Work completed on 15/11/2025.
c KAVVAYI RIVER					
1	Desilting and rejuvenation of Narangathodu in Payyannur Municipality, Payyannur LA in Kannur District			DPR submitted for FS	*This work comes under the jurisdiction of MI Division Kannur. DPR submitted to CE, I&A, Tvm vide this office letter. INC-SE-KKD/69/2025-D5 Dtd. 07/11/2025 for an amount of Rs.8,68,000/-
D KUPPAM RIVER					
1	Providing fencing on Pazhayangadi Bridge across Kuppam River at Pazhayangadi in Madayi Grama Panchayath				DPR amounting 58 lakhs of "Rejuvenation of Kuppam River - Providing fencing on both sides of Kuppam bridge at Kuppam in Taliparamba Municipality and Pazhayangadi bridge at Pazhayangadi in Madayi Grama Panchayath" has been submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023. But, vide reference letter No.D3-2416/2022 Vol I dated.14/12/2023 of Executive Engineer, Thalassery has reported that on scrutiny of estimate in detail, some corrections are found. Hence the estimate is corrected accordingly and estimate amount enhanced to 69 lakhs. In which Appendix 1 is Providing fencing on Pazhayangadi bridge for which estimated cost is 26 lakhs as per DSR 2018, which is resubmitted as per DSR 2018 including 18% GST for an amount of 34 lakhs. Executive Engineer has reported that during the site visit various utility pipes were seen laid on the handrails hence, fencing can't be laid over the handrails. So the proposed work can't be executed at the site.

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

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

ACTION PLAN FOR RIVER KALLAYI , KERALA

Kerala State Pollution Control Board, District Office, Kozhikode

NATIONAL MISSION FOR CLEAN GANGA

Format for submission of monthly progress report by state/UTs

(Hon'ble NGT in the matter of OA.No.673/2018 dated 6/12/2018) For

the month of DECEMBER 2025– Kallayi polluted river stretch

Sl.No.	Activity to be monitored	Timeline	Submission of progress by state/UT-compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation		
2	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STP must be ensured.		
3	Timeline for completing all steps of action plans including completion of setting up STP and their commissioning		
4	Chief secretaries may setup appropriate monitoring mechanisms at the state level <ul style="list-style-type: none">● Specifying accountability of nodal authorities not below the secretary level● Chief secretaries may have an accountable Person attached in their office for this purpose		
	<ul style="list-style-type: none">● Monitoring at the state level must take place		

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

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

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

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

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

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

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

Perumanna Grama Panchayath

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

	Naveekarana, project no 260/2021 project cost16.67Lakhs).						
8	Cleaning of Mambuzha river (project name : Mambuzha water flow restoration, project no 01/2018-19	District Panchayat , Kozhikode			Work has been completed by District Panchayat, Kozhikode	Completed	
9	Establishment of 18 nos of mini MCF in different wards including Payyadi methal where the river is flowing	Perumanna Panchayat , Kozhikode through MGNREGS			Completed.	Completed.	
10	Collection of plasticWaste from the river	Perumanna Panchayat			Process will be done every year	Continuous	Continuous

Peruvayal Grama Panchayath

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

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

Mavoor Grama Panchayat

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

OLAVANNA GRAMAPANCHAYAT

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

IRRIGATION DEPARTMENT

No	Activity	Implementing Agency	Timeline	Progress in the month of OCTOBER 2024	Progress in the month of NOVEMBER 2025	Progress in the month of DECEMBER 2025	% Works Completed	Details Of Remaining Work
1	Desilting of Kallayi river from Kaduppini to Kothi in Kozhikode Corporation	Irrigation department	31.03.2021	Desiltation of Kallai river under urban agglomeration scheme SHO on 12.09.2024 and Dredging work started, Work Completed 14 %			14%	
2	Provide fencing on the sides of the Bridge	Irrigation department	31.03.2021	SHO on 22.08.2024 for providing chain linked fencing on Kothi bridge(Work in progress 30% completed) & SHO on 20.07.2024 for provididng chain linked fencing for Mooriyad road bridge(Work 100% completed)				
3	Dredging , Desilting & removal of weeds from E K canal (11.21 km)	Irrigation department	31.07.2019	Work entrusted to Kerala Waterways & Infrastructure Ltd (KWIL)				
4	Bio park in Kozhikode District	Irrigation department		Land for the proposed bio park is to be demarcated by the Revenue authorities after necessary boundary survey and subsequent bio cover works are to be done by the Social Forestry Department				
5	Flood prone mapping in Kozhikode District	Irrigation department		Action to be taken by the Hydrology Wing of Irrigation Department as this needs data collection, scientific analysis and modelling skills				

Kerala State Pollution Control Board

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

Suchitwa Mission

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

Action Plan by Ground Water Department

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

Action plan by irrigation Department

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