

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 - June2025

1. Short Term Plan

Maintenance and de-bottle necking of existing sewerage network

No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
2.1.1	Pumping lines from the terminal pumping stations namely Kuriyathi, Pattoor, Kannammoola and Enchakkal pumping stations are to be connected directly to STP at Muttathara	Kerala Water Authority	May 2019				100%	Work Completed. DER for pumping main from Pattoor, Kannanmool& Eanchakkal under preparation
	Rehabilitation/upgradation						100%	Completed

2.1.2	of Thaliyal and Aranoor Sewerage Pump house by rehabilitation of existing well, construction of new well and grit chamber, installation of new pump Sets.	Kerala Water Authority	May 2020				100%	Work completed
2.1.3	5 MLD sewage treatment plant at Medical College	Kerala Water Authority	May 2020				100%	Work Completed.
2.1.4	Installation of adequate pumps in Mudavanmughal and Enchakkal pumping stations.	Kerala Water Authority	March 2020				100%	Work Completed.
2.1.5	DG sets in all lift and pumping stations – Mudavanmughal, Aranoor, Thaliyal, Kuriyathi, Pattoor, Kannammola, Pattom, Murinjapalam and Enchakkal	Kerala Water Authority	May 2020				100%	Work Completed.
2.1.6	Reconnect sewer at Rajaji Nagar, stop outflow of sewage into Amayizhanchanthodu, control storm water entry into sewer to avoid overflow in Thampanoor area. Sewage generated in Rajaji Nagar shall be	Kerala Water Authority	Dec 2020				100%	Work Completed.

	diverted to main sewer line. Sewage generated in Thoppil area shall be diverted main sewer lin							
2.1.7	Discharge of sewage in Parayilkadavu shall be stopped as there is	Kerala Water Authority	Completed				100 % completed	Works Completed.

	overflow of sewage reaches in houses having sewerage connection and this may lead to discharge of sewage into River Karamana.							
2.1.8	Divert the sewer line from the School compound of Government Karamana High School	Kerala Water Authority	Completed				100% completed	Work Completed.
2.1.9	Rehabilitation by laying new lines increasing size of undersized main and reconstruction by dilapidated manholes for the last 3 years	Kerala Water Authority	May 2020	0%	0 %	0 %	100%	Works completed – 75No. (Rs.15.41cr) AMRUT-44, State plan-28 MLA ADF/SDF-3 Completed (Rs. 3.cr.) AMRUT-1,
	Total works in progress/completed (76No.) Works dropped (2No.)							Dropped – 2 No. (Rs. 1.52cr.)

	Tendering/ To be arranged (1No.) Land acquisition -1 In progress-3					To be arranged	Land acquisition in progress-1Nos	<p>Land acquisition process for all 4 works completed and land handed over to KWA. LA for the work of laying sewer trunk main from Murinjapalam towards Kannammoola - Joint site inspection of the site by KWA officers and LATHahasildar 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. Thahasidar. Administrative 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.</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.Box culvert work 100%completed. For another work 26% completed. No further progress in the work by the contractor after March 2024. The contractor steps back from contract. Recommended to terminate the work and arrange at risk and cost.. Now the contractor restarted the work, HDD machine mobilized at the site.</p>
2.1.11	Procurement of sewer cleaning machines and	Kerala Water	Mar 2020	0%	0%	0%	100%	Work Completed.

	equipment maintenance	Authority						
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1. Long Term Works

Sl No.	Long term measures proposed	Implementing agency	Amount Required (Rs.in Crore)	Time line	Progress in the month of January	Progress in the month of February	% works completed	Details of works remaining
3.1.1	Extension of sewerage system to Block F to G coastal belt	Kerala Water Authority		Three years				Consultant appointed for preparing Detailed Project Report for uncovered wards of the Thiruvananthapuram Corporation and Rehabilitation of the existing system was terminated from the contract due to breach of contract by the firm vide Proceedings No.KWA/SE/SEW/EOI/REPL/338/2020-2021 of the Superintending Engineer, Sewerage Circle, Kerala Water Authority Thiruvananthapuram dated 31.05.2022 to arrange the balance work at their risk and cost. As directed in the Chief Secretary, GoK's meeting dated 21/06/2022 to do the Preparation of DPRs internally, action taken accordingly. Meanwhile the terminated firm M/s REPL filed a complaint against KWA in the Hon'ble High court of Kerala (WP(C) No 26031 of the year 2022) and obtained a stay
3.1.2	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>against KWA at first up to 22.08.22 which is then got extended up to 14.09.22 against taking any coercive actions. DPR preparation of sewerage system to the uncovered areas of TMC is now being carried out internally by KWA. The total wards were divided in to 10 clusters. Cluster 1 comprises of 5 wards - Attukal, Kalady, Kallipankulam, Ambalathara and kamaleswaram wards – The DPR for Cluster 1 was submitted on 13/10/2022 for AS. Later as per the direction of Secretary Thiruvananthapuram Corporation the DPR for Cluster 1 was revised including Zone 1&5 for Rs.91.00Cr and Zone 3&4 for Rs.66.50Cr and was submitted to Corporation on 28.12.2023 for getting AS under UIDF. AS received for thesetwo works and workstendered. As the two bidders who quoted for the Tender of Cluster 1- (ZONE-III Kalady Part) and(ZONE-IV - Attukal Part) was disqualified the tender was cancelled and retendered the work. In case of Cluster I zone I&V also the two bidders who quoted the tender were disqualified and action is being taken to retender the work.Cluster 3, which was originally consisting of Thiruvallam, Poonkulam and Vellar is the second in the priority list and was taken up. This Cluster is then modified by adding more wards and is divided into 3 zones. Zone 1 of cluster 3 is consisting of Puthenpally and Part of Muttathara (until STP) was taken up on priority based on the demand of Thiruvananthapuram Corporation. DPR of Cluster 3 Zone 1, Puthanpalli ward for 1.5 MLD Sewerage network with 5 year O&M and without centage submitted to Corporation</p>
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							<p>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 inShelf. The DPR for cluster4(Thirumala Thrikkannapuram and Punnakkamughal wards) is prepared and submitted on 30.03.2023 with pvt land. And assuggested for identifyingCorporation/Govt. landsfor the collection well andSTP proposed is beingdone and after obtaining sanction of the Purambokeland identified, there will be changes in the designof network and action being taken to revise the estimate accordingly. DPR for Cluster IX(priority wards (Vizhinjam and Harbour area) completed and submittedon 29.09.2023.</p> <p>Land forSTP identified and theconfirmation of land notyet received. DPR ofcluster X comprising ofwards 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		5000CR				

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

Signed by
Jeevan Babu K

Date: 04-07-2025 17:38:18

Managing Director

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

SI No.	Name of Work	Implementing office	Source of fund	Time line	Status as on 31.05.2025
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		Dropped
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,Kuriyathy	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	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 Pullaikonom Lane,Sasthamangalam under Sewerage Section,Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
53	TSS-Replacing of old damaged 150 mm, SW sewer line with 250 mm SW sewer line at Panicker's Lane C-Lane under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
54	TSS-Providing and laying 200mm dia SW sewer branch line at Pallivila Lane and branches of Mythiri Lane in Kuravankonam-Ambalamukku Road	Sewerage Division, KWA, Trivandrum	State Plan		Ongoing
55	TSS-Standardization of electrical installation of 315 KVA substation at Kannammoola pump house	Sewerage Division, KWA, Trivandrum	State Plan		Completed
56	TSS -Providing and laying 200 mm SW sewer line at 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 undersized 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		Out of 167.50m of 600 mm RCC NP3 pipe, 145m laid and 11 MH completed. Sanction was accorded by Irrigation Department to lay DI pipe across the box culvert. Box Culvert work completed. (99% 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		Ongoing
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		Tendered no offers received
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	Work ongoing
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	Work ongoing
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	Work ongoing
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	Work ongoing

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	Tender evaluation
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	Retendered
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	Work ongoing
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	Work ongoing
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	Work ongoing
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	Work ongoing

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	Work ongoing
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	Work ongoing
16	State Plan 2023 - 24 - TSS - Providing and laying 200 mm SW sewer line at Subramoniam lane near Edapazhinji	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Agreement Executed
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	Agreement Executed
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	Tendered

21	State Plan 2023-24-TSS- Replacing of old and damaged 100 &150 mm SW sewer line with 200 SW sewer line in Kanaka Nager Residence area	Sewerage Division, KWA, Trivandrum	State Plan	31.06.2025	Work ongoing
22	State Plan - 2023-24-TSS- Reconstruction of old dilapidated brick manholes with RCC and raising of manhole cover in the central and right RC area under Sewerage Section,Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
23	State Plan - 2023-24-TSS- Reconstruction of old dilapidated brick manholes and construction of New manholes in various places at Palkulangara, Pettah ward, manhole cover sewerage section -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,Kannanmmoola & Kunnukuzhy, Pattom wards	Sewerage Division, KWA, Trivandrum	State Plan	30-06-2025	Work ongoing
25	State Plan 2023 - 24 - TSS - Reconstruction of old dilapidated brick man holes, raising of man holes & supplying CI MH covers in Valiyasala, Nedumcadu Chalai Kuriyathy,Attukal wards,	Sewerage Division, KWA, Trivandrum	State Plan	15-02-2025	Work ongoing
26	State Plan 2023 - 24 - TSS - Reconstruction of old dilapidated brick man holes construction of new man holes, raising of man holes & supplying CI MH covers in Arannoor ,Jagathy, Karamana, Poojappura, mudvanmugal, Kalady wards	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed

27	State Plan 2023 - 24 - TSS - Rehabilitation of sewer lines construction of new man holes, Reconstruction of old dilapidated man holess, raising of man holes & supplying CI covers IN Thampannoor , Vanchiyoor, Palayam, vazhuthacadu and Thycadu wards	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Retendered
28	State Plan 2023 - 24 Supply and Laying 200mm SW pipe near to Chilanthivala pond,Elamkom and replacing the existing sewer line from Chilathivala pond towards Elamkom road	Sewerage Division, KWA, Trivandrum	State Plan	28-02-2025	Work ongoing
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	Agreement Executed
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	Work ongoing
32	State Plan 2023 - 24-TSS- Providing and laying 200mm SW pipe sewer lines in 2 branches along Bains compound- near Nanthancode junction- Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan	31.01.2025	Completed
33	State Plan 2023-24- TSS- Urgent relaying of damaged gravity main at Sreevaraham junction	Sewerage Division, KWA, Trivandrum	State Plan	31-03-2025	Tendered

34	State Plan 2023-24 -TSS - Increasing the capacity of sewage pipe line and reconstructing RCC manholes in Chembakassery, Eenchakkal Vallakkadavu road & Plancheri Lane at Perunthanni Ward	Sewerage Division, KWA, Trivandrum	State Plan	28-02-2025	Work ongoing
35	State Plan 2023-24-TSS- Increasing capacity of SW pipe from Garudan Junction to Market Junction in Sreevaraham Ward including Payikkattu lane, Panamoodu lane, Ullattu lane. Adikkathara lane (SKRA-1 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	Tender evaluation
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	Work ongoing
38	State Plan 2023-24-TSS - Rehabilitation of existing damaged 100mm pvc pipe to 200mm SW pipe at Nandavanam in Valiasala ward from electric post no T/MK/15 to TC/23/90,91, electric post no T/MK/12 to electric post no T/MK/9, and electric post no T/MK/8 to electric post no T/MK/6	Sewerage Division, KWA, Trivandrum	State Plan	30-04-2025	Agreement Executed
39	State Plan 2023-24-TSS- Rehabilitation of sewer main from Sivanagar to Pump house road across Killipalam Attakulangara Bypass	Sewerage Division, KWA, Trivandrum	State Plan	Dropped	Dropped

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

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

STATE PLAN 2024-25

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	TS Estimate Pending

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	Work ongoing
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	Work ongoing
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	Work ongoing
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 Awarded
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	State Plan 2024-2025- Replacing of old and damaged sewer line through NB Street and NSS Karayogam of Jawaher Nager in Kowdiar Ward	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Work ongoing

15	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		
16	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
17	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	Work ongoing
18	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	Work ongoing
19	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
20	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
21	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

22	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 Awarded
23	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 Awarded
24	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	
25	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	Tendered
26	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
27	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
28	Block Zone II - Supplying, conveying, laying and jointing 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam - Kannammoola (Ch 849m to 1077m)	Sewerage Division, KWA, Trivandrum	State Plan	05.12.2025	Retendered
29	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	Retendered
30	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

31	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	Work ongoing
32	State Plan 2024-2025- Comprehensive Proposal for Infra structure Enhancement of Sewerage Treatment Plant at Muttathara	Sewerage Division, KWA, Trivandrum	State Plan		
33	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
34	State Plan- -2024-25- Protective shelter for sewer cleaning machines and arranging control station for sewer cleaning machines and vehicles in Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Work ongoing
35	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
36	State Plan-2023 -2024 - NGT Rectification of breakage line towards Pattoor Pump House from narrow lane between Indian Veneer Company and canal(Amayizhanjan thodu) near Pattoor junction-under Sewerage section no II, Kuriathy-Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan		Work ongoing

STATE PLAN 2025-26

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

AMRUT

Sl 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		Nonstarter

18	Upgradation of sewer lines from Mudavanmughal jn (near RC Church) to Decent Mukku jn	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
19	Upgradation of existing sewer line from Kunnunbanglow to Mudavanmughal jn(near RC Church)	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
20	Rehabilitation and upgradation of sewerage main from NC Hospital junction to Kannettumuuku junction	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
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		Nonstarter
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		Nonstarter
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		Nonstarter
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		Nonstarter
31	AMRUT 2.0 -Providing new sewer line near Udarasiromani Jhanardhanan Pillai road in Vazhuthacadu ward	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
32	AMRUT 2.0 - Providing new sewer line at Housing Board colony in Kuravankonam.	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
33	AMRUT 2.0 -Providing new sewer line at Vinayaka nagar towards Arappura area	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
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		Nonstarter

SMART CITY

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

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

8	Smart city Thiruvananthapuram Ltd – Reconstruction /Maintenance of Sewerage system from Sree Dharma Shastha Temple to MODEL school JN Road (Thycadu house- Keezhe Thampanoor road) (Road ID - 117-Part portion) due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
9	T S S-Deposit Work- Smart city project- Shifting and laying 200 mm SW sewer line by replacing 150mm line near Vazhuthacaud Junction towards MP Appan road under Sewerage Section , Sasthamangalam. Road ID 104 Part1	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
10	T S S-Deposit Work- Smart city project- Shifting and laying 250 mm SW sewer line by replacing 150mm line From Bishop Pereira Hall Jn to Nanthavanam Jn. under Sewerage Section , Sasthamangalam. (Road ID 24)	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
11	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system at Kalabhavan Mani Road(from Panavila jn to Womens college jn - Road id - 116) due to work carried out by Smart City.	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
12	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system from Vandrose Jn to Spencer Jn - Road id - 112) due to work carried out by Smart City	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
13	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system from Vandrose Jn to contonment police station (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(Sl. No. 10)	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
24	Construction of manholes and reconstruction of brick manholes and steining raising at Bakery junction Valsala Nursing home road	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Ongoing
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		Work Awarded
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		Ongoing
4	LAC-ADS-Vattioorkavu - 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		To be tendered
6	LAC-ADS-Laying new sewerage line -Mosque lane Sreemoolam lane at Thampanoor ward-Sewerage Work	Sewerage Division, KWA, Trivandrum	MLA-ADS		Tendered

STATE WATER QUALITY MONITORING PROGRAMME (SWMP) 2025

Analysis Report for the month of June - 2025

Name of River		KARAMANA					
Date and Time of Sample collection		15-06-2025					
Method of analysis							
Sl no.	Parameters	SAMPLE ID					
		Peppara	Aruvikkara	Mangattukadavu	Pallathukadavu	Thiruvallom	Moonnattumukku
1	Temperature, degree celsius	28	29	29.7	30	30	30
2	DO, mg/L	7.8	7.6	7	5.4	6.2	6.7
3	p ^H	6.4	6.3	6.6	6.8	7	6.8
4	Electrical Conductivity, umhos/cm	40	57	106	195	210	1098
5	BOD, mg/L	1 (BDL)	1.3	1 (BDL)	2.8	1.7	3.9
6	Nitrate, mg/L	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)
7	Turbidity	1 (BDL)	1 (BDL)	1 (BDL)	2.2	2.4	3.1
8	Total Alkalinity as CaCO ₃ , mg/L	20 (BDL)	20 (BDL)	20 (BDL)	44	48	116
9	Chloride, mg/L	12	19	18	32	44	224
10	Amm. Nitrogen mg/L	0.4 (BDL)	0.4 (BDL)	0.4 (BDL)	0.4 (BDL)	0.4 (BDL)	4.5
11	Total Hardness as CaCO ₃ , mg/L	10 (BDL)	10 (BDL)	12	48	44	168
12	Calcium Hardness as CaCO ₃ , mg/L	5 (BDL)	6	8	40	36	108
13	Magnesium Hardness as CaCO ₃ , mg/L	4 (BDL)	4 (BDL)	4 (BDL)	8	8	60
14	Sulphate mg/L	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)	12.9	23.2
15	Sodium, mg/L	9.2	10.5	11.5	20.2	31.7	130.2
16	Total Dissolved Solids, mg/L	36	49.5	59	127	147	624
17	Phosphate mg/L	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)
18	Boron, mg/L	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)
19	Potassium, mg/L	4.1	7.8	4.9	8.3	9.2	25.4
20	Total Coliform, cfu/100ml	600	1400	1400	3900	3100	5500
21	Faecal Coliform, cfu/100ml	400	1100	920	2700	2000	3700
22	SAR	1.25	1.43	1.43	1.27	2.09	4.36


 ASSISTANT ENVIRONMENTAL SCIENTIST

ANALYSIS REPORT OF RIVERS INCLUDED IN THE LIST OF PRS-2022 FOR THE MONTH OF JUNE 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	28	29	30	29	30	29
2	Dissolved Oxygen, mg/l	7.3	6.5	7.6	6.7	7.5	7.4	7.2
3	pH	6.8	6.7	6.3	6.8	6.9	6.5	7.1
4	Conductivity, µmhos/cm	132	86	57	1098	121	393	79
5	BOD, mg/l	1.1	1.2	1.3	3.9	1.2	1 (BDL)	1 (BDL)
6	Nitrate-N, mg/l	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)
7	Turbidity, NTU	1 (BDL)	1 (BDL)	1 (BDL)	3.1	1 (BDL)	1.1	1 (BDL)
8	Phenolphthalein Alkalinity, mg/l	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)
9	Total Alkalinity, mg/l	28	20 (BDL)	20 (BDL)	116	34	28	20 (BDL)
10	Chloride, mg/l	24	12	19	224	20	104	24
11	COD, mg/l	5 (BDL)	5 (BDL)	5 (BDL)	64	5 (BDL)	5 (BDL)	5 (BDL)
12	TKN, mg/l	1.5 (BDL)	1.5 (BDL)	1.5 (BDL)	5.8	1.5 (BDL)	1.5 (BDL)	1.5 (BDL)
13	Ammoniacal-N, mg/l	0.4 (BDL)	0.4 (BDL)	0.4 (BDL)	4.5	0.4 (BDL)	0.4 (BDL)	0.4 (BDL)
14	Hardness as CaCO ₃ , mg/l	24	12	10(BDL)	168	36	40	20
15	Calcium as CaCO ₃ , mg/l	16	8	6	108	20	24	12
16	Magnesium as CaCO ₃ , mg/l	8	4 (BDL)	4 (BDL)	60	16	16	8
17	Sulphate, mg/l	5 (BDL)	5 (BDL)	5 (BDL)	23.2	5 (BDL)	5 (BDL)	5 (BDL)
18	Calcium (Ca ²⁺), mg/l	6.41	3.21	2.40	43.29	8.02	9.62	4.81
19	Magnesium (Mg ²⁺), mg/l	1.944	0.972	0.972	14.58	3.888	3.888	1.944
20	Sodium, mg/l	14.2	8.5	10.5	130.2	11	55	12.9
21	Total Dissolved Solids, mg/l	75.5	48	49.5	624	68	225	67
22	Total Fixed Solids, mg/l	22	19	24	210	31	95	32
23	Total Suspended Solids, mg/l	10 (BDL)	10 (BDL)	10 (BDL)	132	14	23	15
24	Phosphate, mg/l	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)
25	Boron, mg/l	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)
26	Potassium, mg/l	4.8	3.6	7.8	25.4	5.2	24	7.5
27	Fluoride, mg/l	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)
28	Total Coliform, MPN/100 ml	2500	2600	1400	5500	2500	2100	840
29	Fecal Coliform, MPN/100 ml	1300	1700	1100	3700	1400	1300	200
30	Fecal Streptococcus, MPN/100 ml	1.8 (BDL)	1.8 (BDL)	1.8 (BDL)	1.8(BDL)	1.8 (BDL)	1.8 (BDL)	1.8 (BDL)
31	% SODIUM	50.6	52.7	53.4	58.5	35.9	62.9	48.7
32	SAR	1.26	1.06	1.43	4.36	0.80	3.80	1.25

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 Apr 2025	Progress in the month of May 2025	Progress in the month of June 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 Apr 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	31.03.2021					
2	B(ii)	Ground water recharging / rain water harvesting in Govt offices	31.03.2021					
3	NGT order in O.A no.496/2016	NGT order in O.A no.496/2016 Identification of illegal bore wells in the	31.03.2021					

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

SI NO	BOTTLE NO.	Name of Drains	PH	BOD	TC	FC
1	TK1	Panayampalathodu	9.2	0.288	3000	500
2	TK2	PadathupalamThodu	8.4	0.46	400	300
3	TK3	Thottappuzha	8.3	4.032	500	200
4	TK4	Kuttapuzha under Kattodubridge	8.1	0.96	1800	1300
5	TK5	Kadavumbara	8	4.6	500	400
6	TK6	Drain under Varappalam Bridge	NIL	NIL	NIL	NIL
7	TK7	Drain under kallupalam Bridge	8	1.344	200	100
8	TK8	Komalamthodu	7.9	2.784	300	100
9	TK9	Vennikulam Valiyathodu	7.8	2.496	3100	1500
10	TK10	Paduthodu	7.8	0.672	1200	500
11	TK11	Mallappally Valiyathodu	7.6	1.344	600	400

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 JUNE 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>-</p> <p>Yes, Going On</p> <p>Yes, Going On</p>
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ACTION PLAN FOR RIVER PAMBA, KERALA

No.	Activity	Implementing agency	Time line	Progress in the month of April 2024	Progress in the month of May 2024	Progress in the month of JUNE 2024	% works completed	Details of works remaining
A(a)	No industries	-	-	-No industries	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	THUMBOORMOOZHI MODEL AEROBIC COMPOST 4 UNIT IN PANCHAYTH&2 UNIT IN PRIVATE BUS STAND	THUMBOORMOOZHI MODEL AEROBIC COMPOST 4 UNIT IN PANCHAYTH&2 UNIT IN PRIVATE BUS STAND		
C	Establishment of Material Collection Facility	MannarPanchayat, Kadapra/ NiranamPanchayath	31.03.2021	Work in progress	Work in progress	Work in progress	70%	flooring completed
C	Resource Recovery Facility	MannarPanchayat, Kadapra/ NiranamPanchayath	31.03.2021	NA	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 COLLECTION	-	
C	Door to door collection and transportation of municipal solid waste	MannarPanchayat	31.03.2021	Plastic waste collection 78%	Plastic waste collection 75.74%	Plastic waste collection 74.64%	-	25.36%
C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of	KadapraPanchayat	31.12.2020					

	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				
C	Construction of compound wall with fencing	Irrigation department	31.03.2021					
C	Removing light jungle and muddies from river courses	Irrigation department	31.03.2021					
C	Electrical-Light arrangements and Surveillance cameras	Irrigation department	31.03.2021					
C	Regualtingactivites in flood plain zone, protection and management of flood plain zone	Irrigation department	31.03.2021					
	Greenery developmentPlantation plan. Plantation on both sides of the river, setting up biodiversity parks on flood plains by removing encroachment	Irrigation department	31.03.2021					
C (b) (ii)	Green Protocol implementation in all	Mannar, Kadapra/ NiranamPanchayat	31.05.2020	100%	100%		100%	

	Offices institution & Public function							
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 COLLECTED BY HARITHAKARMASENA	PLASTIC 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 April 2024	Progress in the month of May 2024	Progress in the month of JUNE 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 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					

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


Sl.No	Name of Drain	Parameters														
		pH			Electrical Conductivity(µS/cm)			BOD(mg/l)			TC(Nos/100ml)			FC		
	Months	APR	MAY	JUNE	APR	MAY	JUNE	APR	MAY	JUNE	APR	MAY	JUNE	APR	MAY	JUNE
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	NIL	7.1	7.7	NIL	71.28	29.06	NIL	1.65	0.672	NIL	1000	1000	NIL	600	600
4	KaruvelilThodu	7.85	7.6	7.5	45.41	45.2	32.67	1.632	1.92	3.552	4000	3600	1200	2500	1600	200
5	Nochithodu	7.53	7.5	7.4	43.64	48.96	29.98	2.59	1.344	0.864	4200	3400	800	2200	1200	300
6	Pattaparambil Thodu	7.06	7.53	7.3	80.58	59.12	29.17	0.27	2.688	0.576	800	2200	1400	300	1200	700
7	Kappiyarissery Thodu	6.86	7.41	7.2	79.38	53.5	37.06	1.362	1.824	1.632	2900	1500	800	1500	800	600
8	Kombankery Thodu	7.22	7.5	7.1	45.01	49.38	30.49	1.968	2.592	0.576	2500	1000	800	1600	500	700
9	Perackalthodu	7.53	7.63	7.2	52.77	62.27	34.38	1.728	3.648	2.496	3000	2300	800	1500	1600	600
10	Erathodu	7.83	7.41	7.3	56.16	50.5	34.87	1.248	0.96	2.496	2600	800	400	1200	200	300
11	Kolarayaru	7.88	7.22	7.2	45.5	48.96	27.76	1.152	1.152	0.672	2500	1000	1000	1000	300	100

WATER QUALITY DATA OF POLLUTED RIVER STRETCHES JUNE-2025

DISTRICT OFFICE, PATHANAMTHITTA

Date of Sampling: 04.06.2025

Sl. No	PARAMETERS	THAKAZHY	EDATHUA	MANNAR
1	Temperature, °C	26	26	27
2	pH	6.9	6.9	6.9
3	Conductivity, µmhos/cm	107.5	134.5	131.5
4	Turbidity, NTU	2	1.3	1.8
5	Phenolphthalein Alkalinity, as CaCO ₃	Nil	Nil	Nil
6	Total Alkalinity, as CaCO ₃	25	22	24
7	Chloride, mg/l	17.48	18	22.83
8	COD, mg/l	5	5.7	6.8
9	TKN, mg/l	NIL	NIL	NIL
10	Ammoniacal-N, mg/l	BDL	BDL	BDL
11	Hardness, as CaCO ₃ mg/l	26	21	42
12	Calcium, as CaCO ₃ mg/l	20	10	30
13	Magnesium as CaCO ₃ , mg/l	6	11	12
14	Sulphate, mg/l	6.2	5.4	5.2
15	Sodium, mg/l	8.6	9.4	14.5
16	Total Dissolved Solids, mg/l	78	74	105
17	Total Fixed Solids, mg/l	32	40	46
18	Total Suspended Solids, mg/l	40	52	58
19	Phosphate, mg/l	BDL	BDL	BDL
20	Boron, mg/l	BDL	BDL	BDL
21	Potassium, mg/l	4.1	3.5	1.2
22	BOD, mg/l	1.76	3.34	2.23
23	Fluoride, mg/l	BDL	BDL	BDL
24	Dissolved Oxygen, mg/l	6.072	4.84	3.25
25	Nitrate-N, mg/l	2.6	1.8	9.37
26	Total Coliform, CFU/100 ml	5066	6000	7000
27	Faecal Coliform, CFU/100 ml	3633	5500	4300
28	SAR	0.8	0.89	0.97
29	% of sodium	38	44.53	42.02
30	Faecal Strepto Coccus, CFU/100 ml	200	166	433


 10/7/25

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

Sampling Date: 04.06.2025

Sl. No	PARAMETERS	ITTINAYARKKADAVU BRIDGE KUTTAMPEROOR	KOTTAKAL KADAVU BRIDGE KORATTIKADAVU	PARUMALA BRIDGE	MANNAR BRIDGE
1	Temp. (°C)	28	26	25	27
2	pH	6	6.9	6.3	6.9
3	Conductivity (μS/cm)	150.5	118.3	136.5	125.7
4	DO (mg/L)	3.34	2.14	3.52	3.25
5	BOD (mg/L)	2.14	1.8	1.32	2.23
6	COD (mg/L)	3.5	2.2	2.1	3.7
7	TDS (mg/L)	83	65	75	69
8	TC (CFU/100ml)	4333	3900	6000	7000
9	FC (CFU/100ml)	3366	2666	4166	4300
10	FSC(CFU/100ml)	66	100	66	433


 10/7/25
 ഓഫീസ് മേധാവ്
 മലപ്പുറം ജില്ലാ പൊതുമുഖ്യ മന്ത്രി

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	Timeline	Progress in the month Of April 2025	Progress in the month Of May 2025	Progress in the month Of June 2025	% works complete d	Details of works remaining
(b)	Augmentation and Revamping of existing STP at near Adwaita Ashramam and to increase the capacity of STP so as to treat more sewage generated in the municipality	Aluva Municipality	Dec 2019	The entire mechanical machinery of STP needs to be replaced. Estimate has been reset.. Electrical work, civil work is almost complete. The work needs to be retendered. Steps are being taken to get PCB's consent for STP.	The entire mechanical machinery of STP needs to be replaced. Estimate has been reset.. Electrical work, civil work is almost complete. The work needs to be retendered. Steps are being taken to get PCB's consent for STP.	The committee observed that there has been no time-bound progress in the renovation of the STP at Advaitashram. As part of the renovation, the entire mechanical machinery of the STP needs to be replaced. The estimate has been recast accordingly. The electrical and civil works are almost complete. The mechanical work has been re-tendered and the work order has been issued. The work will commence immediately. Steps are being taken to obtain the PCB (Pollution Control Board) consent for the STP. The committee instructed that all these tasks should be completed at the earliest.		
(b)	Augmentation and Revamping of existing STP at Aluva Market and to increase the	Aluva Municipality	2021	PMSSY has received administrative approval of Rs 48 crore for the reconstruction of Aluva General Market and DPR has been prepared. The reconstruction of the market also includes a high-capacity ETP. Since the high-capacity ETP is being	PMSSY has received administrative approval of Rs 48 crore for the reconstruction of Aluva General Market and DPR has been prepared. The reconstruction of the market also includes a high-capacity ETP. Since the high-capacity ETP is being established,	PMSSY has received administrative approval of Rs 48 crore for the reconstruction of Aluva General Market and DPR has been prepared. The reconstruction of the market also includes a high-capacity ETP. Since the high-capacity ETP is being established,		

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

	the sewage to the public drain and to collect fine based on polluter pay principle					drains must be reduced. It was also instructed that a monthly report must be submitted every month. The SE (Superintending Engineer) stated that action should be taken against those who repeatedly pay fines.		
(a)(iv)	Periodical inspection in the Industries, Flats, hotels monitoring of STP,ETP	KSPCB	Periodical	ONGOING	ONGOING	ONGOING		
(ii)	Installation of modern abattoirs	Aluva Municipality	March 2021	It was reported that the DPR for inviting bids for construction and preparation of a modern slaughterhouse has been approved by the Council 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 ICE application has to be submitted for the construction of the slaughterhouse. Since a house is located at a distance of 7.5 m, approval has not been received from the Town Planning Department. Approval has to be obtained directly from the government in this regard.	It was reported that the DPR for inviting bids for construction and preparation of a modern slaughterhouse has been approved by the Council 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 ICE application has to be submitted for the construction of the slaughterhouse. Since a house is located at a distance of 7.5 m, approval has not been received from the Town Planning Department. Approval has to be obtained directly from the government in this regard.	It was reported that approval was obtained in the Council meeting held on 12.07.2024 to invite an Expression of Interest (EOI) for the construction of a modern slaughterhouse and for the preparation of its DPR, and that further steps are being taken. This has already been included in the DPR for the new General Market. The Pollution Control Board (PCB) has informed that an ICE (Integrated Consent to Establish) application must be submitted for the construction of the slaughterhouse. Since a residential building is located just 7.5 meters away, approval has not been obtained from the Town Planning Department. In this regard, direct approval from the government will be required.		

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

	the yard to Thoombungal Thodu							
(ii)	Installation of plastic shredding unit	Kalamassery Municipality	June 2019	A plant has been set up and is functioning. The scraps are being transported by CKCL. It was informed that this is being transported to the Palakkad cement factory.	A plant has been set up and is functioning. The scraps are being transported by CKCL. It was informed that this is being transported to the Palakkad cement factory.	A plant has been set up and is functioning. The scraps are being transported by CKCL. It was informed that this is being transported to the Palakkad cement factory.	100%	
(a)(iv)	Constitution of squads for night surveillance for finding the unauthorized dumping of sewage at NAD wetlands Kalamassery	Kalamassery Municipality, Police department	2020	A squad has been formed and is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It is not possible to install cameras on NAD roads as NAD has control over them.	A squad has been formed and is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It is not possible to install cameras on NAD roads as NAD has control over them.	A squad has been formed and is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It is not possible to install cameras on NAD roads as NAD has control over them.collaborating with the KSWMP project to prepare an IEC plan. As part of this, the decision to provide drainage and awareness classes has been included in this year's plan.	N/A	
(b)	Installation of common STP for Kalamassery Municipality and ETP at Municipal Market. Obtain a consent from Pollution Control Board	Kalamassery Municipality	December 2019	The work of renovating the existing ETP in the market has not started. The works will be completed within 2 months of renovating the market and after completing the biomining, the STP will be installed at the site of the existing dumping yard. The proposal for 2 new STPs has been sent to the DPC. The work of renovating the market is 80% complete.	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.	The work of renovating the existing ETP in the market has not started. The works will be completed within 2 months of renovating the market and after completing the biomining, the STP will be installed at the site of the existing dumping yard. The proposal for 2 new STPs has been sent to the DPC. The work of renovating the market is 80% complete.It has been decided to include the construction of the STP as a new project in this year's plan.	N/A	

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

	sewage to the public drain							
	Installation of cameras at the waste dumping spots	Kalamassery Municipality	2020	84 cameras have been installed, 2 each in 42 wards. Work is underway to get visuals. internet connection has not been received.	84 cameras have been installed, 2 each in 42 wards. Work is underway to get visuals. internet connection has not been received.	84 cameras have been installed, 2 each in 42 wards. Work is underway to get visuals. internet connection has not been received.It will be resolved within 1 month.		
(b)	Identification of sources of sewage discharged to drain near Pathalam bridge and action to stop the discharge which reach river Periyar from hotels, labor camps etc In case the quantity of sewage generated is assessed to be more STP need to be installed	Eloor Municipality, KSPCB (for monitoring)	2020	. Inspections are being conducted from time to time. Arrangements have been made to drain the sewage discharged from shopping complexes, shops, etc. into the soak pit. The problem has been resolved. The sewage from the places where foreign workers live near the bridge and from catering units has been inspected and notices have been issued to 4 institutions to construct soak pits. A meeting will be called to ensure that the catering units have PCB licenses. Action will be taken against the hotel institutions that have caused sewage to reach the Kuzhikandam stream.	Inspections are being conducted from time to time. Arrangements have been made to drain the sewage discharged from shopping complexes, shops, etc. into the soak pit. The problem has been resolved. The sewage from the places where foreign workers live near the bridge and from catering units has been inspected and notices have been issued to 4 institutions to construct soak pits. A meeting will be called to ensure that the catering units have PCB licenses. Action will be taken against the hotel institutions that have caused sewage to reach the Kuzhikandam stream.	Inspections are being conducted from time to time. Arrangements have been made to drain the sewage discharged from shopping complexes, shops, etc. into the soak pit. The problem has been resolved. The sewage from the places where foreign workers live near the bridge and from catering units has been inspected and notices have been issued to 4 institutions to construct soak pits. A meeting will be called to ensure that the catering units have PCB licenses. Action will be taken against the hotel institutions that have caused sewage to reach the Kuzhikandam stream. Action is being taken. Cases have been filed against establishments discharging waste into the river. Fine details: June - Rs. 35,500/- May - Rs. 1,01,000/-		
	Installation of cameras at the waste dumping spots	Eloor Municipality	2020	84 cameras have been installed. All are working. Fines are being collected.	84 cameras have been installed. All are working. Fines are being collected.	84 cameras have been installed. All are working. Fines are being collected.Keltron cameras have been installed around the aerobic bin near the		

						HIL company where waste was dumped, and around the bin near Manjummel Arattukadavu.		
(a)(iv)	Periodical inspection in the Industries, Flats, hotels for monitoring of STP,ETP located in Cochin corporation	KSPCB	periodical					
(a)	Inventory of sources of pollution through a rapid study/Study for identification of pollution sources at Edapally thodu	Kochi Municipal Corporation	3 months	A squad has been formed with Engineering & Health to find the sources of sewage discharge. 4 squads are conducting regular inspections. Desilting and water hyacinth removal work is underway. Night squad is conducting inspections. A special squad regarding septage is conducting inspections. Fine collected details From 01/03/2025 to 31/03/2025, a total of Rs. 6,25696/- fine was collected.	A squad has been formed with Engineering & Health to find the sources of sewage discharge. 4 squads are conducting regular inspections. Desilting and water hyacinth removal work is underway. Night squad is conducting inspections. A special squad regarding septage is conducting inspections. Fine collected details From 01/03/2025 to 31/03/2025, a total of Rs. 6,25696/- fine was collected.	A squad has been formed with Engineering & Health to find the sources of sewage discharge. 4 squads are conducting regular inspections. Desilting and water hyacinth removal work is underway. Night squad is conducting inspections. A special squad regarding septage is conducting inspections. Fine collected details From 01/03/2025 to 31/03/2025, a total of Rs. 6,25696/- fine was collected.		
	issuing notice to the defaulters	Kochi Municipal Corporation	4 months	Notices have been sent to 5 institutions regarding the discharge of sewage. A thorough inspection is being carried out in the institutions	Notices have been sent to 5 institutions regarding the discharge of sewage. A thorough inspection is being carried out in the institutions near the river. A	Notices have been sent to 5 institutions regarding the discharge of sewage. A thorough inspection is being carried out in the institutions		

				near the river. A total of 23 notices have been sent in the month of March. All of them have been rectified.	total of 23 notices have been sent in the month of March. All of them have been rectified.	near the river. A total of 23 notices have been sent in the month of March. All of them have been rectified. The PCB has instructed to specify what the violations for issuing the notices are.		
(a)(iv)	Periodical inspection in the flats, hotels, shops located along the river	Kochi Municipal Corporation	periodical	Notices have been sent to 5 institutions regarding the discharge of sewage. A thorough inspection is being carried out in the institutions near the river. A total of 23 notices have been sent in the month of March. All of them have been rectified.	Notices have been sent to 5 institutions regarding the discharge of sewage. A thorough inspection is being carried out in the institutions near the river. A total of 23 notices have been sent in the month of March. All of them have been rectified.	Notices have been sent to 5 institutions regarding the discharge of sewage. A thorough inspection is being carried out in the institutions near the river. A total of 23 notices have been sent in the month of March. All of them have been rectified. The PCB has instructed to specify what the violations for issuing the notices are.		
(b)	Identification of natural drains/thodu reaching river Periyar and cleaning of weeds, grasses etc	Irrigation department	2 years	<u>Minor Irrigation.</u> 23 canals have been cleaned in Eloor Municipality (2023-2024). This was a project of 2 crores. There are 40 canals in Karumallur, Kunnukara, Alangad, Kadungallur gram panchayats for desilting. Out of which 8 have been completed. (Agreement was made in 2023, done in 2024) The works of Valiyachal canal have been completed. <u>Major Irrigation</u> Eerezhachal Punchathodu site has been handed over. As there are complaints from the residents	<u>Minor Irrigation.</u> 23 canals have been cleaned in Eloor Municipality (2023-2024). This was a project of 2 crores. There are 40 canals in Karumallur, Kunnukara, Alangad, Kadungallur gram panchayats for desilting. Out of which 8 have been completed. (Agreement was made in 2023, done in 2024) The works of Valiyachal canal have been completed. <u>Major Irrigation</u> Eerezhachal Punchathodu site has been handed over. As there are complaints from the residents regarding encroachment, a letter has	<u>Minor Irrigation.</u> An 8 crore rupee project called Kalamassery with Agriculture is underway. It includes desilting of 40 canals, 7 culverts, and 2 sluices. Desilting of 22 canals has been completed. 80% of the work on the 7 culverts has been finished. Sluice work has not yet started. Desilting of Karumalloor canal is 49% complete. <u>Major Irrigation</u> Eerezhachal Punchathodu site has		

				<p>regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation.</p> <p>1. Kuthuthodu (IRR/IA/EST/8495/2022-5-8-7) Rs. 74.40 lakh</p> <p>2. Emadhodu (IRR/IA/EST/8495/2022-5-11-10) Rs. 9/- lakh</p> <p>These works have not been sanctioned. Report submitted to CEE on 17/02/2024.</p>	<p>been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation.</p> <p>1. Kuthuthodu (IRR/IA/EST/8495/2022-5-8-7) Rs. 74.40 lakh</p> <p>2. Emadhodu (IRR/IA/EST/8495/2022-5-11-10) Rs. 9/- lakh</p> <p>These works have not been sanctioned. Report submitted to CEE on 17/02/2024.</p>	<p>been handed over. As there are complaints from the residents regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation. A letter has also been submitted through the Collectorate. The project includes 218 meters of side protection and 1000 meters of desilting. The SE has informed that a report should be submitted to the Collector highlighting the issue of demarcation.</p> <p>1. Kuthuthode (IRR/IA/EST/8495/2022-5-8-7)</p> <p>Rs. 74.40 lakh</p> <p>It has been taken up under the Operation vessel. The initial phase of the desilting work has commenced. It was informed that the work will proceed depending on a reduction in rainfall.</p>		
(iii)	Clearing of weeds, grasses at the river 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.</p> <p>The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored.</p>	<p>Almost all the works have been completed in the 2024-2025 operation vessel.</p> <p>The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored.</p>	<p>Almost all the works have been completed in the 2024-2025 operation vessel.</p> <p>The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored.</p> <p>The site has been handed over for the</p>		

						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.		
(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 shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not been approved.	The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not been approved.	The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not been approved. Cleaning works have been arranged for a period of one year. Currently, all areas are free from waste.		
(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 Rs. 9.47 crore have been completed in the Edayar Industrial Area under the MSE CDP project. In addition, 48% of the drainage works out of the Rs. 34 lakh allocated to the Public Works Department for the drainage works in the Edayar Industrial Area have been completed. All the works related to the maintenance and repair of the internal road have been completed. Joint inspection in collaboration with PCB and PWD conducted. Detailed sketch of the industrial estate was given to the concerned department for doing required rectification in drainage works.	Road drainage works worth Rs. 9.47 crore have been completed in the Edayar Industrial Area under the MSE CDP project. In addition, 48% of the drainage works out of the Rs. 34 lakh allocated to the Public Works Department for the drainage works in the Edayar Industrial Area have been completed. All the works related to the maintenance and repair of the internal road have been completed. Joint inspection in collaboration with PCB and PWD conducted. Detailed sketch of the industrial estate was given to the concerned department for doing required rectification in drainage works.	Road drainage works worth Rs. 9.47 crore have been completed in the Edayar Industrial Area under the MSE CDP project. In addition, 48% of the drainage works out of the Rs. 34 lakh allocated to the Public Works Department for the drainage works in the Edayar Industrial Area have been completed. All the works related to the maintenance and repair of the internal road have been completed. Joint inspection in collaboration with PCB and PWD conducted. Detailed sketch of the industrial estate was given to the concerned department for doing required rectification in drainage works. The feasibility report needs to be submitted to the PWD.		
(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.	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	1 0 0	
(b)	Identification of the establishments/commercial complexes/flats /houses/hotels etc who is discharging the sewage to the 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.	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	5 0 %	

	Installation of cameras at the waste dumping spots	Kadungallur Panchayath	2020	A Rs 15 lakh project to install 33 cameras at 28 locations is underway. The cameras have been installed. Cable connection needs to be provided.	A Rs 15 lakh project to install 33 cameras at 28 locations is underway. The cameras have been installed. Cable connection needs to be provided.	A Rs 15 lakh project to install 33 cameras at 28 locations is underway. The cameras have been installed. Cable connection needs to be provided.	50%	
(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Choornikkara Panchayath	2020	Inspection is being conducted. Waste dumping fine:- January - 1,1000/- February- 7000/- March- 25,000/-	Inspection is being conducted. Waste dumping fine:- January - 1,1000/- February- 7000/- March- 25,000/-	Inspection is being conducted. Waste dumping fine:- January - 1,1000/- February- 7000/- March- 25,000/-		
	Installation of cameras at the waste dumping spots	Choornikkara Panchayath	2020	53 cameras have been installed. 13 more will be installed by KMRL CSR. sent for government approval.	53 cameras have been installed. 13 more will be installed by KMRL CSR. sent for government approval.	53 cameras have been installed. 13 more will be installed by KMRL CSR. sent for government approval.		

LONG TERM MEASURES

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month Of April 2025	Progress in the month Of May 2025	Progress in the month Of June 2025	% works completed	Details of works remaining
A(b)	Construction of walkway, ring roads etc at the Periyar	Irrigation department	4 years	FS has been received for Soil Investigation work. Rs. 92,000/- has	FS has been received for Soil Investigation work. Rs. 92,000/- has	FS has been received for Soil Investigation work. Rs. 92,000/- has		

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 April 2025

STNCode	Sampling Date	Sampling Time	StnName	Type Of Water Body	Name Of Water Body	River Basin
17	08.04.2025	11:00	Periyar at Eloor	River	Periyar River	
1338	05.04.2025	10:40	Periyar at SDP Aluva	River	Periyar River	
2334	03.04.2025	11:10	Periyar at Pathalam	River	Periyar River	
2335	03.04.2025	12:00	Periyar at Kalamassery	River	Periyar River	
3468	05.04.2025	11:05	Periyar at KWA Aluva	River	Periyar River	
2337	01.04.2025	12:30	Kadambrayar At Brahmapuram	River	Kadambrayar River	
2338	01.04.2025	11:30	Kadambrayar At Manackakadavu	River	Kadambrayar River	
1573	01.04.2025	1:00	Chithrapuzha At Irumpanam	River	Chithrapuzha River	
1154	05.04.2025	1:30	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	29	30	27	27	27	27	28
2	Dissolved Oxygen, mg/l	5.5	5.9	7.7	5.8	7.4	0.3	1.9	3.9	7.4
3	pH	6.9	7.4	8.4	8.7	7.4	9.7	7.2	8.7	7.4
4	Conductivity, µmhos/cm	5720	56	10300	44	42	271	121	2270	105
5	BOD, mg/l	1.8	2.8	3	1	2.1	4.2	3	3	1.4
6	Nitrate-N, mg/l	0.07	0.09	0.07	BDL	BDL	BDL	BDL	3.2	1.47
7	Turbidity, NTU	1.4	0.9	0.8	0.9	0.5	4.4	7.7	11.3	1.1
8	Phenolphthalein alkalinity	BDL	BDL	BDL	BDL	BDL	10	3	BDL	BDL
9	Total Alkalinity, as CaCO ₃	30	17	3	17	18	28	29	8	60
10	Chloride, mg/l	2096	7.5	3543	8	5.5	57.9	19.5	749	7.2
11	COD, mg/l	5.6	8.0	8.8	3.2	6.4	12.8	8.8	8.8	4
12	TKN, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2	BDL
13	Ammoniacal-N, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	BDL
14	Total Hardness, as CaCO ₃ mg/l	700	20	1500	14	12	34	24	500	83
15	Calcium, as CaCO ₃ mg/l	600	9	1000	6	5	7	5	100	10
16	Magnesium as CaCO ₃ , mg/l	100	11	500	8	7	27	19	400	73
17	Sulphate, mg/l	100	BDL	255	BDL	BDL	6	BDL	77.5	4
18	Sodium, mg/l	1362	5	1900	5.2	4	37.6	12.6	400	5
19	Total Dissolved Solids, mg/l	3910	35	7500	37	32	160	72	1660	90
20	Total Fixed Solids, mg/l	3128	28	6000	30	26	128	58	1328	72
21	Total Suspended Solids, mg/l	8	2	13	1	BDL	9	20	12	6
22	Phosphate, mg/l	BDL	BDL	0.7	BDL	BDL	BDL	BDL	20.09	BDL
23	Boron, mg/l	0.283	BDL	0.696	BDL	BDL	0.007	BDL	0.103	BDL
24	Potassium, mg/l	62	1.2	75.00	1.2	1	2.6	3	9	0.8
25	Fluoride, mg/l	BDL	0.18	BDL	0.01	0.1	BDL	BDL	BDL	0.01
26	Total Coliform, MPN/100 ml	7000	21000	7000	5800	2600	7000	79000	25000	2800
27	Feacal Coliform, MPN/100 ml	2700	7900	4100	260	920	2800	31000	7900	1500
28	Feacal Streptococci, MPN/100ml	540	410	580	46	10	540	2400	240	380

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

STNCode	Sampling Date	Sampling Time	StnName	Type Of Water Body	Name Of Water Body	River Basin
17	06.05.2025	10:35	Periyar at Eloor	River	Periyar River	
1338	05.05.2025	10:45	Periyar at SDP Aluva	River	Periyar River	
2334	03.05.2025	10:55	Periyar at Pathalam	River	Periyar River	
2335	03.05.2025	11:50	Periyar at Kalamassery	River	Periyar River	
3468	05.05.2025	11:00	Periyar at KWA Aluva	River	Periyar River	
2337	13.05.2025	11:00	Kadambrayar At Brahmapuram	River	Kadambrayar River	
2338	13.05.2025	10:30	Kadambrayar At Manackakadavu	River	Kadambrayar River	
1573	13.05.2025	11:15	Chithrapuzha At Irumpanam	River	Chithrapuzha River	
1154	05.05.2025	12:30	Chalakudy at Pulikkakadavu	River	Chalakudy River	

Sl. No.	Parameters	Values									
		Station Code						2337	2338	1573	1154
		17	1338	2334	2335	3468	2337				
1	Temperature, °C	29	28	30	29	28	NO SAMPLING , DUE TO DENSE MATS OF WATER HYACINTH	29	29	29	
2	Dissolved Oxygen, mg/l	4.4	5.7	7.0	5.6	6.5		1.6	1.1	6.2	
3	pH	9.0	7.7	8.5	8.5	7.4		6.7	6.6	7.1	
4	Conductivity, µmhos/cm	3430	47	3500	54	52		100	655	324	
5	BOD, mg/l	1.5	2.8	2.7	1.9	2.8		3.2	3	3.1	
6	Nitrate-N, mg/l	0.18	BDL	0.05	0.023	0.023		0.07	0.27	0.5	
7	Turbidity, NTU	2.4	1.3	1.3	0.6	1.3		10.1	3.9	3.9	
8	Phenolphthalein alkalinity	11	3	7	5	3		BDL	0	1	
9	Total Alkalinity, as CaCO ₃	33	12	16	14	13		20	10	13	
10	Chloride, mg/l	1030	3.9	1174	4.9	5		13.7	155	82.2	
11	COD, mg/l	4.8	8.0	8	5.6	8		9.6	8.8	8.8	
12	TKN, mg/l	BDL	BDL	BDL	BDL	BDL		BDL	4.5	2.24	
13	Ammoniacal-N, mg/l	BDL	BDL	BDL	BDL	BDL		BDL	2.03	1.55	
14	Total Hardness, as CaCO ₃ mg/l	550	14	540	13	17		22	37	70	
15	Calcium, as CaCO ₃ mg/l	540	10	500	9	13		18	23	65	
16	Magnesium as CaCO ₃ , mg/l	10	4	40	4	4		4	14	5	
17	Sulphate, mg/l	165	7	167	3.2	10		3	21	20	
18	Sodium, mg/l	660.6	2.54	763.1	3.19	3.25		8.91	100	47.8	
19	Total Dissolved Solids, mg/l	2300	33	2450	32	41		59	364	227	
20	Total Fixed Solids, mg/l	1840	26	1960	26	33		47	291	182	
21	Total Suspended Solids, mg/l	7	10	8	10	10		10	10	10	
22	Phosphate, mg/l	BDL	BDL	BDL	BDL	BDL		0.14	8.75	BDL	
23	Boron, mg/l	0.232	0.064	0.322	0.029	0.057		0.05	0.083	0.041	
24	Potassium, mg/l	10	1	14.00	1	1		1	7	3	
25	Fluoride, mg/l	0.03	0.01	0.07	0.02	0.01		0.08	0.04	0.02	
26	Total Coliform, MPN/100 ml	1500	70000	5400	2800	7900		2500	4300	790	
27	Feacal Coliform, MPN/100 ml	480	7900	3400	2100	4600		2000	3200	330	
28	Feacal Streptococci, MPN/100ml	170	3500	280	310	3200		150	490	130	

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

STNCode	Sampling Date	Sampling Time	StnName	Type Of Water Body	Name Of Water Body	River Basin
17	03.06.2025	10:30	Periyar at Eloor	River	Periyar River	
1338	04.06.2025	10:15	Periyar at SDP Aluva	River	Periyar River	
2334	05.06.2025	11:05	Periyar at Pathalam	River	Periyar River	
2335	05.06.2025	11:55	Periyar at Kalamassery	River	Periyar River	
3468	04.06.2025	10:30	Periyar at KWA Aluva	River	Periyar River	
2337	13.06.2025	10:30	Kadambrayar At Brahmapuram	River	Kadambrayar River	
2338	13.06.2025	11:30	Kadambrayar At Manackakadavu	River	Kadambrayar River	
1573	13.06.2025	10:00	Chithrapuzha At Irumpanam	River	Chithrapuzha River	
1154	04.06.2025	1:15	Chalakudy at Pulikkakadavu	River	Chalakudy River	

Sl. No.	Parameters	Values									
		Station Code									
		17	1338	2334	2335	3468	2337	2338	1573	1154	
1	Temperature, °C	29	26	27	27	27	27	27	28	27	
2	Dissolved Oxygen, mg/l	4.8	6.5	7.0	5.4	6.8	0.5	0.7	0.3	6.6	
3	pH	9.0	8.7	7.7	7.6	8.8	7.0	7.2	7.2	9.0	
4	Conductivity, µmhos/cm	223	60	88	77	55	134	135	187	77	
5	BOD, mg/l	2.2	0.1	0.8	0.7	0.1	4	3.7	3.9	0.1	
6	Nitrate-N, mg/l	BDL	BDL	0.1	0.1	BDL	BDL	BDL	1.14	BDL	
7	Turbidity, NTU	3.2	0.8	BDL	0.7	BDL	2.1	2.7	1.3	BDL	
8	Phenolphthalein alkalinity	10	6	BDL	BDL	7	BDL	BDL	BDL	6.3	
9	Total Alkalinity, as CaCO3	20	14	15	19	15	27	25	21	13	
10	Chloride, mg/l	39	6.5	12	8.5	6	18.5	17	25.5	11.5	
11	COD, mg/l	6.4	0.8	2.4	2.1	0.8	12	11.2	11.2	0.8	
12	TKN, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Ammoniacal-N, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
14	Total Hardness, as CaCO3 mg/l	33	16	20	16	12	27	28	35	18	
15	Calcium, as CaCO3 mg/l	23	11	15	12	10	25	27	31	15	
16	Magnesium as CaCO3, mg/l	10	5	5	4	2	2	1	4	3	
17	Sulphate, mg/l	9.2	BDL	3	BDL	BDL	0.5	5.2	11.1	BDL	
18	Sodium, mg/l	25.4	4.2	7.8	5.5	3.9	12	11.05	16.6	7.5	
19	Total Dissolved Solids, mg/l	122	33	50	42	31	74	74	103	42	
20	Total Fixed Solids, mg/l	98	26	40	34	25	59	59	82	34	
21	Total Suspended Solids, mg/l	10	5	10	9	8	9	10	10	4	
22	Phosphate, mg/l	0.1	BDL	1.2	BDL	BDL	2	0.3	5.1	BDL	
23	Boron, mg/l	0.026	0.008	0.005	0.012	0.01	BDL	BDL	0.008	0.02	
24	Potassium, mg/l	2	1	0.50	1	1	1	BDL	1	0.5	
25	Fluoride, mg/l	0.046	0.027	0.052	0.049	0.022	0.043	0.037	0.22	0.023	
26	Total Coliform, MPN/100 ml	3200	2800	1400	2200	4300	4000	920	3100	3900	
27	Feacal Coliform, MPN/100 ml	2200	1500	310	630	2600	1100	280	2200	2400	
28	Feacal Streptococci, MPN/100ml	540	580	100	40	940	240	79	170	1000	

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

Sl. No	Parameter	Unit	05.06.2025	25.06.2025
1	Temperature	°c	32.8	31.6
2	pH		7.14	7.5
3	Conductivity	µS/cm	151.20	134
4	TDS	NTU	87.51	77.39
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	12.40	19.20
8	Chlorides	"	22.1	18
9	Hardness	"	26.0	23
10	D.O.	"	5.2	6.0
11	COD	"	28.0	28.0
12	Calcium	"	5.6	7.6
13	Magnesium	"	0.49	1.0
14	Ammoniacal Nitrogen	"	BDL	0.174
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.179	0.544
17	Hexa Chromium	"	0.050	0.067
18	Oil & Grease	"	7.200	0.640
19	Iron	"	0.653	0.621
20	Sulphides	"	BDL	BDL
21	Sulphates	"	9.370	10.00
22	Total Alkalinity	"	0.3	5.20
23	Nitrate	"	16	38.00
24	BOD	"	4	0.40
25	TC	"	120	80.00
26	FC	"	0	0.00
27	FS	"	0	80.00
28	Sodium	ppm	8.3	5.40
29	Potassium	ppm	1.1	0.61
30	SAR	meq/L	0.7	0.48

* TURBIDITY METER IS OUT OF ORDER

As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river parameters reduced from 23 to 12

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

Sl. No	Parameter	Unit	05.06.2025	25.06.2025
1	Temperature	°c	32.2	31.6
2	pH		7.02	7.2
3	Conductivity	µS/cm	64.97	47
4	TDS	NTU	37.60	27.42
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	6.80	18.44
8	Chlorides	"	10	9
9	Hardness	"	13.0	18
10	D.O.	"	5.0	6.8
11	COD	"	16.0	20.0
12	Calcium	"	4.0	4.4
13	Magnesium	"	0.73	1.7
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.250	0.208
17	Hexa Chromium	"	0.053	0.066
18	Oil & Grease	"	6.400	0.600
19	Iron	"	0.546	0.770
20	Sulphides	"	BDL	BDL
21	Sulphates	"	3.430	1.875
22	Total Alkalinity	"	0.3	1.540
23	Nitrate	"	14	4
24	BOD	"	2	0.4
25	TC	"	120	400
26	FC	"	0	0
27	FS	"	0	160
28	Sodium	ppm	8.3	0.31
29	Potassium	ppm	1.1	0.43
30	SAR	meq/L	0.21	0.03

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

Sl. No	Parameter	Unit	05.06.2025	25.06.2025
1	Temperature	°c	32.20	31.30
2	pH		7.22	7.23
3	Conductivity	µS/cm	76.25	46.69
4	TDS	NTU	44.13	27.02
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	18.40	6.04
8	Chlorides	"	10.21	8
9	Hardness	"	17.00	15.00
10	D.O.	"	3.80	7.30
11	COD	"	12.00	12.00
12	Calcium	"	5.20	4.40
13	Magnesium	"	0.97	0.97
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.19	0.20
17	Hexa Chromium	"	0.05	0.07
18	Oil & Grease	"	7.04	2.16
19	Iron	"	0.92	0.72
20	Sulphides	"	BDL	BDL
21	Sulphates	"	3.75	2.03
22	Total Alkalinity	"	0.20	1.52
23	Nitrate	"	16.00	22.00
24	BOD	"	2.34	7.30
25	TC	"	40.00	0.00
26	FC	"	0.00	0.00
27	FS	"	0.00	240.00
28	Sodium	ppm	2.00	0.31
29	Potassium	ppm	1.10	0.44
30	SAR	meq/L	0.21	0.03

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As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river parameters reduced from 23 to 12

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

Sl. No	Parameter	Unit	05.06.2025	25.06.2025
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 parameters reduced from 23 to 12

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

Sl. No	Parameter	Unit	05.06.2025	25.06.2025
1	Temperature	°c	32.3	31.6
2	pH		7.12	7.3
3	Conductivity	µS/cm	60.18	53
4	TDS	NTU	34.83	30.95
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	11.08	37.20
8	Chlorides	"	11.9	9
9	Hardness	"	14.0	13
10	D.O.	"	5.1	7.1
11	COD	"	12.0	18.0
12	Calcium	"	4.0	4.8
13	Magnesium	"	0.97	0.2
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.160	0.203
17	Hexa Chromium	"	0.050	0.067
18	Oil & Grease	"	5.200	2.240
19	Iron	"	0.494	0.892
20	Sulphides	"	BDL	BDL
21	Sulphates	"	4.060	2.650
22	Total Alkalinity	"	0.3	1.580
23	Nitrate	"	12	14
24	BOD	"	3	1
25	TC	"	240	280
26	FC	"	120	100
27	FS	"	60.00	240
28	Sodium	ppm	1.300	0.740
29	Potassium	ppm	0.79	0.46
30	SAR	meq/L	0.15	0.09

* TURBIDITY METER IS OUT OF ORDER

As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river parameters reduced from 23 to 12

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

Sl. No	Parameter	Unit	05.06.2025	25.06.2025
1	Temperature	°c	32.3	31.3
2	pH		7.06	7.3
3	Conductivity	µS/cm	103.50	47
4	TDS	NTU	59.91	27.46
5	Turbidity	mg/L	*	*
6	Colour	"	20.0	20.0
7	SS	"	8.12	20.20
8	Chlorides	"	11.9	7
9	Hardness	"	25.00	13.0
10	D.O.	"	3.50	7.33
11	COD	"	40.00	40.00
12	Calcium	"	7.20	4.80
13	Magnesium	"	1.70	0.24
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.26	0.21
17	Hexa Chromium	"	0.05	0.07
18	Oil & Grease	"	12.52	0.76
19	Iron	"	0.99	0.65
20	Sulphides	"	BDL	BDL
21	Sulphates	"	3.59	2.18
22	Total Alkalinity	"	0.18	1.51
23	Nitrate	"	20.00	18.00
24	BOD	"	2.32	0.40
25	TC	"	440	1140
26	FC	"	240	260
27	FS	"	120	80
28	Sodium	ppm	3.5	0.52
29	Potassium	ppm	1.1	0.44
30	SAR	meq/L	0.3	0.06

* TURBIDITY METER IS OUT OF ORDER

As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river parameters reduced from 23 to 12

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

Sl. No	Parameter	Unit	05.06.2025	25.06.2025
1	Temperature	°c	32.2	31.2
2	pH		7.24	7.3
3	Conductivity	µS/cm	103.60	50
4	TDS	NTU	59.96	28.68
5	Turbidity	mg/L	*	*
6	Colour	"	20	20
7	SS	"	6.08	53.20
8	Chlorides	"	7	9
9	Hardness	"	23.0	23
10	D.O.	"	4.6	6.7
11	COD	"	36.0	32.0
12	Calcium	"	4.8	4.4
13	Magnesium	"	2.67	2.9
14	Ammoniacal Nitrogen	"	BDL	BDL
15	Free Ammonia	"	BDL	BDL
16	Phosphates		0.20	0.231
17	Hexa Chromium	"	0.05	0.068
18	Oil & Grease	"	10.20	3.120
19	Iron	"	0.60	0.729
20	Sulphides	"	BDL	BDL
21	Sulphates	"	4.21	1.870
22	Total Alkalinity	"	0.28	1.720
23	Nitrate	"	30.00	14
24	BOD	"	2.40	0.10
25	TC	"	240	580
26	FC	"	160	40
27	FS	"	40	80
28	Sodium	ppm	1.5	0.500
29	Potassium	ppm	0.77	0.44
30	SAR	meq/L	0.13	0.04

* TURBIDITY METER IS OUT OF ORDER

As per the directions issued by CEE, Ernakulam on 23/01/2025 the daily river parameters reduced from 23 to 12

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

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

Sl.No	Determinants	Values
1	Temperature, 0C	27
2	Dissolved Oxygen, mg/l	6.9
3	pH	7.7
4	Conductivity, µmhos/cm	64
5	BOD, mg/l	0.86
6	Nitrate-N, mg/l	0.9
7	Turbidity, NTU	0
8	Phenolphthalein Alkalinity, mg/l	BDL
9	Total Alkalinity, mg/l	19
10	Chloride, mg/l	13.5
11	COD, mg/l	12
12	TKN, mg/l	BDL
13	Ammoniacal-N, mg/l	BDL
14	Hardness as CaCO3, mg/l	35
15	Calcium as CaCO3, mg/l	22
16	Magnesium as CaCO3, mg/l	13
17	Sulphate, mg/l	4.8
18	Calcium (Ca2+), mg/l	8.818
19	Magnesium (Mg2+), mg/l	3.159
20	Sodium, mg/l	7
21	Total Dissolved Solids, mg/l	38
22	Total Fixed Solids, mg/l	28.5
23	Total Suspended Solids, mg/l	BDL
24	Phosphate, mg/l	0.1
25	Boron, mg/l	BDL
26	Potassium, mg/l	1.47
27	Fluoride, mg/l	BDL
28	Total Coliform, MPN/100 ml	300
29	Fecal Coliform, MPN/100 ml	40
30	Fecal Streptococcus, MPN/100 ml	10
31	% SODIUM	29.2
32	SAR	0.5

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

Station Name		PUZHAKKAL											
Type of Water body		RIVER											
Completed by		DO, THRISSUR											
Agency		KERALA STATE POLLUTION CONTROL BOARD											
1	Station Code	2	2	9	0								
2	Date and time of sample taken (DD/MM/YY, HH/MM)	1	5	0	5	2	0	2	5		1	0	PM
3	Weather	Cloudy			Clear✓			Windy			Raining		
4	Approximate depth of main stream	< 50 cm			50 – 100 cm			>100 cm✓			Flood		
5	Color & Intensity	Clear✓			Turbid			Green			Brown		
		1 = Light✓			2 = Moderate			3 = High					
6	Odour	None			Fishy✓			H2S			Other		
7	Floating Matter	Floating			Floating sludge			Oil & Grease			Water Hyacinth		
8	Visible effluent discharges in proximity	Industrial			Municipal sewage			None✓					
9	Human activities around the station	Cattle 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												
12	Major polluting source	Industrial effluent			MSW✓		PW		None		Other✓		
13	Uses of water in downstream	Irrigation			Drinking water source			Fishing		Domestic			
		Organized			Cultivation✓			Bathing		Others✓			
Sl.No	Determinants										Values		
1	Temperature, 0C										28		
2	Dissolved Oxygen, mg/l										3		
3	pH										7.3		
4	Conductivity, µmhos/cm										184		
5	BOD, mg/l										1.2		
6	Nitrate-N, mg/l										0.9		
7	Turbidity, NTU										0		
8	Phenolphthalein Alkalinity, mg/l										BDL		
9	Total Alkalinity, mg/l										20		
10	Chloride, mg/l										38.8		
11	COD, mg/l										4		
12	TKN, mg/l										BDL		
13	Ammoniacal-N, mg/l										BDL		
14	Hardness as CaCO3, mg/l										50		
15	Calcium as CaCO3, mg/l										22		
16	Magnesium as CaCO3, mg/l										28		
17	Sulphate, mg/l										4		
18	Calcium (Ca2+), mg/l										12.83		
19	Magnesium (Mg2+), mg/l										4.374		
20	Sodium, mg/l										20..06		
21	Total Dissolved Solids, mg/l										92		
22	Total Fixed Solids, mg/l										64		
23	Total Suspended Solids, mg/l										BDL		
24	Phosphate, mg/l										0.1		
25	Boron, mg/l										BDL		
26	Potassium, mg/l										1.63		
27	Fluoride, mg/l										BDL		
28	Total Coliform, MPN/100 ml										100		
29	Fecal Coliform, MPN/100 ml										20		
30	Fecal Streptococcus, MPN/100 ml										NIL		
31	% SODIUM										45.6		
32	SAR										1.2		

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

Station Name		KECHERI												
Type of Water body		RIVER												
Completed by		DO, THRISSUR												
Agency		KERALA STATE POLLUTION CONTROL BOARD												
1	Station Code	2	2	9	1									
2	Date and time of sample taken (DD/MM/YY, HH/MM)	1	5	0	5	2	0	2	5			12	10	PM
3	Weather	Cloudy			Clear✓			Windy			Raining			
4	Approximate depth of main stream	< 50 cm			50 – 100 cm			>100 cm✓			Flood			
5	Color & Intensity	Clear✓			Turbid			Green			Brown			
		1 = Light✓			2 = Moderate			3 = High						
6	Odour	None✓			Fishy			H2S			Other			
7	Floating Matter	Floating			Floating sludge			Oil & Grease			Water Hyacinth			
8	Visible effluent discharges in proximity	Industrial			Municipal sewage			None						
9	Human activities around the station	Cattle wading			Farming✓			Fishing✓		Bathing		Other✓		
10	Location details	U/s of town or industrial			D/s of town or industrial area			Pilgrim center/Bathing Ghat/Water intake			None			
11	Flow rate													
12	Major polluting source	Industrial effluent			MSW✓		PW		None		Other ✓			
13	Uses of water in downstream	Irrigation			Drinking water source			Fishing✓		Domestic				
		Organized			Cultivation✓			Bathing		Others✓				
Sl.No	Determinants												Values	
1	Temperature, 0C													28
2	Dissolved Oxygen, mg/l													5.7
3	pH													7.3
4	Conductivity, µmhos/cm													138
5	BOD, mg/l													0.3
6	Nitrate-N, mg/l													0.2
7	Turbidity, NTU													0
8	Phenolphthalein Alkalinity, mg/l													BDL
9	Total Alkalinity, mg/l													16
10	Chloride, mg/l													30
11	COD, mg/l													12
12	TKN, mg/l													BDL
13	Ammoniacal-N, mg/l													BDL
14	Hardness as CaCO3, mg/l													35
15	Calcium as CaCO3, mg/l													26
16	Magnesium as CaCO3, mg/l													9
17	Sulphate, mg/l													4.8
18	Calcium (Ca2+), mg/l													10.42
19	Magnesium (Mg2+), mg/l													2.178
20	Sodium, mg/l													16
21	Total Dissolved Solids, mg/l													69
22	Total Fixed Solids, mg/l													48
23	Total Suspended Solids, mg/l													BDL
24	Phosphate, mg/l													0.05
25	Boron, mg/l													BDL
26	Potassium, mg/l													2.1
27	Fluoride, mg/l													BDL
28	Total Coliform, MPN/100 ml													200
29	Fecal Coliform, MPN/100 ml													70
30	Fecal Streptococcus, MPN/100 ml													NIL
31	% SODIUM													48
32	SAR													1.2

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

Station Name		Chalakudy					
Type of Water body		River					
Name of Water Body		Chalakudy					
Completed by		DO Thrissur					
Agency		KERALA STATE POLLUTION CONTROL BOARD					
1	Station Code	K52					
2	Date and time of sample taken (DD/MM/YY, HH/MM)	14.05.2025 11:30 PM					
3	Weather	Cloudy	Clear✓	Windy	Raining		
4	Approximate depth of main stream	< 50 cm	50 – 100 cm	>100 cm✓	Flood		
5	Color & Intensity	Clear✓	Turbid	Green	Brown		
		1 = Light✓	2 = Moderate	3 = High			
6	Odour	None✓	Fishy	H2S	Other		
7	Floating Matter	Floating	Floating sludge	Oil & Grease	Water Hyacinth		
8	Visible effluent discharges in proximity	Industrial	Municipal sewage	None			
9	Human activities around the station	Cattle wading	Farming✓	Fishing✓	Bathing	Other✓	
10	Location details	U/s of town or industrial area	D/s of town or industrial area✓	Pilgrim center/Bathing Ghat/Water intake			None
11	Flow rate						
12	Major polluting source	Industrial effluent	MSW	PW	None	Other✓	
13	Uses of water in downstream	Irrigation	Drinking water	Fishing✓	Domestic		
		Organized water source	Cultivation✓	Bathing Ghat	Others✓		
Sl. No	Determinants			Values			
1	Temperature, 0C			27			
2	Dissolved Oxygen, mg/l			7.2			
3	pH			7.7			
4	Conductivity, µmhos/cm			71			
5	BOD, mg/l			0.5			
6	Nitrate-N, mg/l			0.2			
7	Turbidity, NTU			0.6			
8	Total Alkalinity, mg/l			15			
9	Chloride, mg/l			8			
10	Ammoniacal-N, mg/l			BDL			
11	Hardness as CaCO3, mg/l			22			
12	Calcium as CaCO3, mg/l			18			
13	Magnesium as CaCO3, mg/l			4			
14	Sulphate, mg/l			4.6			
15	Sodium, mg/l			4.9			
16	Total Dissolved Solids, mg/l			38			
17	Phosphate, mg/l			0.01			
18	Boron, mg/l			BDL			
19	Potassium, mg/l			1.24			
20	Total Coliform, MPN/100 ml			50			
21	Fecal Coliform, MPN/100 ml			10			
22	Sodium Absorption Ratio (SAR)			0.5			

POLLUTED RIVER STRETCH MONITORING PROGRAM										(JUNE 2025)	
Station Name		KALPATHYPUZHA AT KALPATHY									
Type of Water body		RIVER									
Completed by		DO, PALAKKAD									
Agency		Kerala State Pollution Control Board									
1	Station Code	3	4	6	0						
2	Date and time of sample taken (DD/MM/YY, HH/MM)	6/2/2025									
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	28
2	Dissolved Oxygen, mg/l	6.4
3	pH	8
4	Conductivity, umhos/cm	610
5	BOD, mg/l	1.1
6	Nitrate-N, mg/l	1.5
7	Turbidity, NTU	BDL
8	Phenolphthalein Alkalinity, as CaCO ₃ mg/l	BDL
9	Total Alkalinity, as CaCO ₃ mg/l	95
10	Chloride, mg/l	85
11	COD, mg/l	4
12	TKN, mg/l	BDL
13	Ammoniacal-N, mg/l	BDL
14	Hardness, as CaCO ₃ mg/l	182
15	Calcium, as CaCO ₃ mg/l	130
16	Magnesium as CaCO ₃ , mg/l	52
17	Sulphate, mg/l	60
18	Calcium (Ca ²⁺), mg/l	52
19	Magnesium (mg ²⁺), mg/l	12.6
20	Sodium, mg/l	49
21	Total Dissolved Solids, mg/l	360
22	Total Fixed Solids, mg/l	234
23	Total Suspended Solids, mg/l	BDL
24	Phosphate, mg/l	BDL
25	Boron, mg/l	BDL
26	Potassium, mg/l	13
27	Fluoride, mg/l	0.3
28	Total Coliform, MPN/100 ml	8800
29	Fecal Coliform, MPN/100 ml	4400
30	Fecal streptococci , MPN/100 ml	320
31	% Sodium	34.93
32	SAR	1.58

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

Station Name		RIVER KORAYAR AT KANJIKODE									
Type of Water body		RIVER									
Completed by		DO, PALAKKAD									
Agency		Kerala State Pollution Control Board									
1	Station Code	2	3	2	6						
2	Date and time of sample taken (DD/MM/YY, HH/MM)	6/2/2025									
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	28
2	Dissolved Oxygen, mg/l	7.2
3	pH	8
4	Conductivity, µmhos/cm	820
5	BOD, mg/l	2.2
6	Nitrate-N, mg/l	2
7	Turbidity, NTU	BDL
8	Phenolphthalein Alkalinity, as CaCO ₃ mg/l	2
9	Total Alkalinity, as CaCO ₃ mg/l	159
10	Chloride, mg/l	110
11	COD, mg/l	6
12	TKN, mg/l	BDL
13	Ammoniacal-N, mg/l	BDL
14	Hardness, as CaCO ₃ mg/l	250
15	Calcium, as CaCO ₃ mg/l	170
16	Magnesium as CaCO ₃ , mg/l	80
17	Sulphate, mg/l	69
18	Calcium (Ca ²⁺), mg/l	68
19	Magnesium (Mg ²⁺), mg/l	19.4
20	Sodium, mg/l	64
21	Total Dissolved Solids, mg/l	471
22	Total Fixed Solids, mg/l	306
23	Total Suspended Solids, mg/l	BDL
24	Phosphate, mg/l	BDL
25	Boron, mg/l	BDL
26	Potassium, mg/l	16
27	Fluoride, mg/l	0.4
28	Total Coliform, MPN/100 ml	3100
29	Fecal Coliform, MPN/100 ml	1600
30	Fecal streptococci, MPN/100 ml	360
31	% Sodium	33.98
32	SAR	1.76

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

S. No	Activity to be monitored	Timeline	Submission of progress by state/UT-Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation		Survey Completed
	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 STP Projects 1) Pampad Flat STP 90% Work Completed 2) Bustand STPs Consent from PCB Obtained. Steps to make it functional are under progress – i.e project prepared for O&M.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		
5	Chief Secretaries may set up appropriate monitoring mechanism at state level <ul style="list-style-type: none"> ● Specifying accountability of nodal authorities not below the Secretary level ● Chief Secretaries may have an accountable person attached in their office for this purpose. 		NA
	<ul style="list-style-type: none"> ● Monitoring at State level must take place 		NA
6	Progress report may be furnished by the State/UTs to <ul style="list-style-type: none"> ● Secretary, Ministry of Jal Shakti ● Member Secretary, CPCB 		NA
6.1	Progress Report may be comprised of details along with completion timelines on:		Already screen net placed to the both side of the Bridge and Periodic Inspection & Drainage Cleaning Doing

	<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>Action plan prepared through KWA</p> <p>NA</p> <p>Source level treatment units 8000 ring compost & 100 Biobin are distributed. Dry waste collecting and processing by shredding & Bailing Machine through HKS Done. Bio medical waste collection through IMAGE.</p> <p>NA</p> <p>Inspection activities doing</p> <p>NA</p>
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(viii) Adopting good irrigation practices,	NA
(ix) Protection and management of food plain Zones (FPZ),	NA
(x) Rain water harvesting,	NA
(xi) Maintaining minimum Environmental flow of river	NA
(xii) Plantation on both sides of the river	NA
(xiii) Setting up biodiversity parks on flood plains by removing encroachment	NA

ACTION PLAN FOR RIVER KADALUNDI, MALAPPURAM, KERALA

1. 2. Malappuram Municipality - Short Term Solid & Liquid Waste Management Action Plan								
No.	Activity	Implementing agency	Time line	Progress in the month of March 2025	Progress in the month of April 2025	Progress in the month of May 2025	% of works completed	Details of works remaining
1.1	Slaughter house and Poultry house	Malappuram Municipality	July 2022	Land Purchased and Fund Requested	Fund Requested	Fund Requested	NA	NA

1.2	Valiyathodu Cleaning - 8 Km length	Malappuram Municipality	Completed	Cleaned	Cleaned	Cleaned	50%	Cleaned
1.3	Installation of screening net in the Valiyathode	Malappuram Municipality	December 2019	Inspected	Inspected	Inspected	100%	NA
1.4	Identification of polluting points in Kadalundi river & awareness campaign - River walk(puzha nadatham – 15 km length)	Malappuram Municipality	Completed		Awarness Campaign and River Walking Done	Inspection' & Cleaning activities doing	100 %	NA
1.5	Sanitation facility and treatment of waste water in the markets - Treatment plant	Malappuram Municipality	Completed	New Building Construction Process	New Building Construction Process		50%	New Building Construction Process
1.6	The discharge of waste water from the surrounding houses to the Valiyathodu - Blocking of discharge of liquid waste	Malappuram Municipality	Completed	100%	100%	100%	100%	
1.7	Identification of illegal outlets into storm water drains and fine imposed on such units.	Malappuram Municipality	Ongoing	Ongoing	Inspection continuing	Inspection continuing & action taken	NA	Ongoing
1.8	Biodegradable waste	Malappuram Municipality						

	Bio bins – 176 Bucket compost – 269 Thumboormuzhi Aerobic bins - 4 Biogas plant -55		March 2020 March 2020 March 2020 March 2020	Completed Completed Completed	Completed Completed Completed		100% 100% 100%	Completed Completed Completed
1.9	Non biodegradable waste MCF Plastic shredding and Bailing Echo Kiosk	Malappuram Municipality	March 2020 March 2020	Completed		DPR under preparation Unit Functioning	100%	
1.10	Identification and monitoring of illegal	Malappuram Municipality				Under Processing	Nil	NA

	activities CC tv Network installation		March 2020					
	2.Kerala State Pollution Control Board							
No.	Activity	Implementing agency	Time line	Progress in the month of March 2025	Progress in the month of April 2025	Progress in the month of May 2025	% of works completed	Details of works remaining
2.1	River water quality Monitoring- Thirurangadi, Hajjiarpally National Water Quality Programme(NWMP)	KSPCB	Ongoing; Monthly frequency			Ongoing; Monthly frequency		
2.2	River water quality Monitoring - Thirurangadi, Kooriyad, Manikut, Hajjiarpally, Anakkayam, Oravambrum -	KSPCB	Ongoing; Seasonal - Pre - monsoon, monsoon, post - monsoon			Ongoing; Seasonal - Pre - monsoon, monsoon, post - monsoon		

	State Water monitoring programme (SWMP)							
2.3	Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc. in Malappuram Municipal area	KSPCB	Ongoing; Interval; Red – 1 month, Orange- 3 months, Green- 6 months			Ongoing		

3. Ground Water Department

No.	Activity	Implementing agency	Time line	Progress in the month of March 2025	Progress in the month of April 2025	Progress in the month of May 2025	% of works completed	Details of works remaining
3.1.	Ground Water resources and regulation of ground water extraction by	Ground water Department		No action included in the approved action plan to be	No action included in the approved action plan to be	No action included in the approved action plan to be		

	<p>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%)</p>			performed by Ground Water Department	performed by Ground Water Department	performed by Ground Water Department		
3.2	<p>Ground water recharging / rain water harvesting (Earlier status : The average pre -monsoon</p>	Ground water Department		No action included in the approved action plan to be	No action included in the approved action plan to be	No action included in the approved action plan to be		

	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.)			performed by Ground Water Department	performed by Ground Water Department	performed by Ground Water Department		
3.3	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps (Earlier status : Groundwater Department has 6 observation dug wells and 14 bore wells in the river stretch. (report attached) (Map No: 7 attached))	Ground water Department		No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department		
3.4	For regulating use of ground water for irrigation purpose, adopting good irrigation	Ground water Department		No action included in the approved action plan to be performed by	No action included in the approved action plan to be performed by	No action included in the approved action plan to be performed by		

	practices (Earlier status : The total irrigation draft in the area ranges from 979.683 - 1857.49 ha.m.)			Ground Water Departme nt	Ground Water Departme nt	Ground Water Departme nt		
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**ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN KADALUNDY RIVER
MAY 2025 ALONG WITH HAJIYARPALLY**

Sl.No	Name of point	PARAMETERS				
		pH	DO (mg/l)	BOD(mg/l)	COD (mg/l)	FC (cfu/100 ml)
1	Valiyangadi drain	6.9	5.8	4.5	4.8	220
2	Valiyangadi bypass drain	Dried				
3	Vallyathod drain	7.4	4.1	3.6	5.7	140
4	Hajiyarpally	6.9	8.2	3.1	4.1	160



ASSISTANT SCIENTIST

National Mission for Clean Ganga
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RIVER TIRUR, MALAPPURAM

S. No.	Activity to be monitored	Timeline	Submission of progress by state/UT-Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation		
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured		STP Repairing project DPC approved and sent to TS
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		Action plan prepared
5	Chief Secretaries may set up appropriate monitoring mechanism at state level <ul style="list-style-type: none"> • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose. 		
	<ul style="list-style-type: none"> • Monitoring at State level must take place 		
6	Progress report may be furnished by the State/UTs to <ul style="list-style-type: none"> • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB 		Last updated report submitted was on May 23,2025
6.	Progress Report may be comprised of details		(i)Identified 17 drains out of which 9 were additionally

1	<p>along with completion timelines on:</p> <p>I Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.</p> <p>II <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>III <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status</p> <p>(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;</p> <p>(vi) Preventing dumping of waste and scientific</p>	<p>identified on 11.07.2019</p> <p>(ii) Tirur Fish Market STP - 45 KLD- working condition. Inspection was conducted by pollution control board and repairing works has been done as per the suggestions of pollution control board .laboratory analysis has been done and parameters found to be within limits</p> <p>(ii) Tirur municipal Bus StandSTP-50 KLD –Working Condition. Inspection was conducted by pollution control board and STP sample collected and laboratory analysis has been done and parameters found to be within limits.</p> <p>iii)NIL</p> <p>(iv)De centralized treatment facilities, Disposal using sanitary landfills, composting operations, MRF, MCF etc. Slaughter house- completed civil work. Electrical installation works started.</p> <p>(v)Attached as Annexure II-Analysis report during the month of May2025</p> <p>BMW are being disposed scientifically through</p>
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<p>waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.</p> <p>(vii)Ground water regulation</p> <p>(viii) Adopting good irrigation practices,</p> <p>(ix) Protection and management of food plain Zones (FPZ),</p> <p>(x) Rain water harvesting,</p> <p>(xi)Maintaining minimum Environmental flow of river</p> <p>(xii) Plantation on both sides of the river</p> <p>(xiii) Setting up biodiversity parks on flood plains by removing encroachment</p>		<p>IMAGE. Municipality have MRF, MCF facilities</p> <p>(vii)NA</p> <p>viii)Complying</p> <p>(ix)NA</p> <p>(x) Complying</p> <p>(xi) Complying</p> <p>(xii) NA</p> <p>(xiii) Reported that encroachment survey is completed and now the process of laying survey stones is in progress.</p>
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ACTION PLAN FOR RIVER TIRUR, KERALA

1	2 IRRIGATION DEPARTMENT							
No.	Activity	Implementing agency	Time line	Progress in the month of March	Progress in the month of April 2025	Progress in the month of May 2025	% works completed	Details of works remaining

				2025				
1.1.1	Strengthening the right side bund of Tirur- Ponnani puzha at Porur, ward no.I Tirur Municipality	Irrigation Department	Work Completed	Work Completed	Work Completed	100%	Work Completed. Bill Paid (Rs 2984168/- including GST)	Work Completed
1.1.2	Cleaning and development of old Ponnani thodu at Thazhepalam	Irrigation Department	6 Months	Completed	Completed	Completed	100%	Completed
1.1.3	Repair and Rehabilitation of Koottayi Regulator cum Bridge across Thirur-Ponnani Puzha in Mangalam Grama panchayatin Malappuram Dist	Irrigation Department	18 Months	0%	0%	0%	8%	More damages to the Apron and river bed has seen at site and work can't be continued using existing original estimate. Also Cracks on girders and settlement of 4 piers towards right bank has seen on 18/11/2023. So the work can be continued only after addressing the present issues. So while preparing the estimate based on the study report from KERI Peechi, the solution for the new issues also has to be finalised. Meeting held on 29/11/2023 at the

								office of CE I&A in the presence of CE IDRBR 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/WRDdated 28-06-2024. Technical committee team visited the site on 08.08.2024. As per the suggestion from technical committee, hydrographic survey conducted and drawings submitted to technical expert committee. Based on the meeting minutes of the Technical Expert Committee, DPR of 18.10 crores of the recast estimate has been submitted
3	4 TIRUR MUNICIPALITY – SHORT TERM ACTION PLAN							
No.	Activity	Implementing agency	Time line	Progress in the month of March 2025	Progress in the month of April 2025	Progress in the month of May 2025	% works completed	Details of works remaining
1.2.1	Provide septic tank for	Tirur	Dec 2019	Completed	Completed	Completed	100%	Completed

	nearest houses	Municipality						
1.2.2	Establishment of Solid waste Treatment Plant ThumboorMozhi Model Aerobic Bin	Tirur Municipality	March 2020	Work ongoing	Work ongoing	Work ongoing	20%	Work ongoing
1.2.3	Establishment of Non Degradable waste treatment Plant Resource Recovery facility Centre Plastic Shredding Unit Segregation shed	Tirur Municipality	March 2020	DPR preparation	DPR preparation	DPR preparation	NA	DPR preparation
1.2.4	Slaughtering House	Tirur Municipality	December 2020	Work ongoing	Work ongoing	Work ongoing	80%	Work ongoing
1.2.5	Fencing on Bridgeside Thalakkadathur Bridge	Tirur Municipality	December 2020	Completed	Completed	Completed	100%	Completed
1.2.6	Installation of CCTV Camera near the river Bank Thalakkadathur Bridge	Tirur Municipality	May 2020	Ongoing	Tender Stage	Tender Stage	NA	Ongoing
1.2.7	Planting of Bamboo seedlings on the river bank (Thazhepalam)	Tirur Municipality	June 2020	Ongoing	Ongoing	Ongoing	20%	Ongoing
1.2.8	Renovation of Effluent treatment plant at fish Market AMC Granted ETP with Aeorobic System	Tirur Municipality Tirur Municipality	June 2019	Completed	Completed	Completed	100%	Completed

1.2.9	Setting up of STP at Private Bus stand	Tirur Municipality	June 2020	Completed	Completed	Completed	100%	Completed
1.2.10	Setting up of a new drain after demolishing the old one. The old one was the hub of the waste water outlet of the shops and other establishments. The proposed drain is constructing in the middle of the road so as to avoid intrusion of pipes from outside	Tirur Municipality	June 2020	Not started	Not started	Not started		Not started
1.2.11	Identification of illegal outlets into storm water drains and fine shall be imposed on such units	Tirur Municipality		Ongoing	Ongoing	Ongoing		Ongoing
5	6 Cheriyamundam Grama panchayat							
No.	Activity	Implementing agency	Time line	Progress in the month of March 2025	Progress in the month of April 2025	Progress in the month of May 2025	% works completed	Details of works remaining
1.3.1	Fencing on bridge side	Cheriyamundam	March 2020			completed		

	Thalakkadatur	Grama panchayat						
4.Kerala State Pollution Control Board								
No.	Activity	Implementing agency	Time line	Progress in the month of March 2025	Progress in the month of April 2025	Progress in the month of May 2025	% works completed	Details of works remaining
1.4.1	River water quality Monitoring- Thalakkadathur National Water Quality Programme(NWMP)	KSPCB	Ongoing; Monthly frequency			Ongoing; Monthly frequency		
1.4.2	River water quality Monitoring State Water monitoring programme (SWMP)	KSPCB	Ongoing; Seasonal			Ongoing		
1.4.3	Inspection and effluent quality monitoring of the flats, Industrial units, Service stations, hospitals, auditorium,		Ongoing; Interval; Red – 1 month, Orange- 3			Ongoing		

	hotels in Municipal area		months, Green- 6 months					
5.Ground Water Department								
No.	Activity	Implementing agency	Time line	Progress in the month of March 2025	Progress in the month of April 2025	Progress in the month of May 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	Ground water Department		NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		

	77.92%)							
1.5.2	Ground water recharging / rain water harvesting (Earlier status : The average pre -monsoon groundwater level ranges from 6.14mbgl - 8.49 mbgl.)			NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		
1.5.3	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or handpumps (Earlier status : No observation well along the river stretches)			NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		
1.5.4	For regulating use of ground water for irrigation purpose, adopting good irrigation practices (Earlier status : The total irrigation draft in the area ranges from 49.14 - 870.97 ha.m.)			NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		

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

No.	Activity	Implementing	Time line	Progress in	Progress in	Progress in	% works	Details of works
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		agency		the month of March 2025	the month of April 2025	the month of May 2025	completed	remaining
1.6.1	Protection of Thirur Ponnani River	Thalakkad grama panchayath handover fund to District Panchayat	31.03.2020			Completed		
1.6.2	Installation of CC TV camera on Yetterikadavu Kunjulikkadavu Mangattiri Bridge, Aikkanchiri Bridge, Paravanna Bridge	Vettom - KS SECURITY SYSTEM	Spill over due to lack of fund			Project for installation of cctv camera with high specification is decided to include 2024-25 annual projects		
1.6.3	Installation of CC TV camera	Mangalam grama panchayath Win Plus Agency, Kondotty	Completed			Completed		
1.6.4	Haritha Keralam Thirur-Ponnani puzha protection	Mangalam grama panchayath Nirmithi Kendra, Kozhikkodu	31.03.2020			Completed		

ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN TIRUR RIVER

FOR THE MONTH OF MAY 2025

SI NO	Name of point	PARAMETERS				
		pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	FC(cfu/100ml)
1	Drain near Tirur Railway station	7.2	4.6	1.1	3.9	180
2	Thazhepalam drain	7.2	5	2.2	4.7	340
3	Naduvilangadi drain (old ponnanihodu)	Dried				
4	Annassery drain	Dried				
5	Canal at CV Land	Dried				
6	Canal at Mangalam thuruth	7.3	8.73	3.1	4.6	280
7	Canal at Pullooni	6.4	4.8	1.5	4.1	440
8	Drain near Mangattiri bridge	Dried				
9	Drain near Ettirikkadavu bridge	7.2	5.5	2.1	4.9	120
10	Epothingal	6.9	4.1	1.2	3.8	1840
11	Asarikkadav	6.8	4.6	1.1	4	1600
12	Kandanathkadav	Dried				
13	Pancharamoola	Dried				
14	Kakadav	6.7	4.5	1.9	4.1	80
15	Kanathkadav	7.2	4.3	1.4	3.4	540
16	Drain near tirur railway station	Dried				
17	Payyanangadi (kadayithodu)	6.9	2.7	1.3	3.6	100

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ASSISTANT SCIENTIST

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

S. No	Activity to be monitored	Timeline	Submission of progress by state/UT-Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation		Survey Completed
	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 STP Projects 1) Pampad Flat STP 90% Work Completed 2) Bustand STPs Consent from PCB Obtained. Steps to make it functional are under progress – i.e project prepared for O&M.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		
5	Chief Secretaries may set up appropriate monitoring mechanism at state level <ul style="list-style-type: none"> ● Specifying accountability of nodal authorities not below the Secretary level ● Chief Secretaries may have an accountable person attached in their office for this purpose. 		NA
	<ul style="list-style-type: none"> ● Monitoring at State level must take place 		NA
6	Progress report may be furnished by the State/UTs to <ul style="list-style-type: none"> ● Secretary, Ministry of Jal Shakti ● Member Secretary, CPCB 		NA
6.1	Progress Report may be comprised of details along with completion timelines on:		Already screen net placed to the both side of the Bridge and Periodic Inspection & Drainage Cleaning Doing

<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>Action plan prepared through KWA</p> <p>NA</p> <p>Source level treatment units 8000 ring compost & 100 Biobin are distributed. Dry waste collecting and processing by shredding & Bailing Machine through HKS Done. Bio medical waste collection through IMAGE.</p> <p>NA</p> <p>Inspection activities doing</p> <p>NA</p>
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(viii) Adopting good irrigation practices,	NA
(ix) Protection and management of food plain Zones (FPZ),	NA
(x) Rain water harvesting,	NA
(xi) Maintaining minimum Environmental flow of river	NA
(xii) Plantation on both sides of the river	NA
(xiii) Setting up biodiversity parks on flood plains by removing encroachment	

ACTION PLAN FOR RIVER KADALUNDI, MALAPPURAM, KERALA

1. 2. Malappuram Municipality - Short Term Solid & Liquid Waste Management Action Plan								
No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 2025	% of works completed	Details of works remaining
1.1	Slaughter house and Poultry house	Malappuram Municipality	July 2010	Fund Requested	Fund Requested	Fund Requested	NA	NA

1.2	Valiyathodu Cleaning - 8 Km length	Malappuram Municipality	Completed	Cleaned	Cleaned	Cleaned	50%	Cleaned
1.3	Installation of screening net in the Valiyathode	Malappuram Municipality	December 2019	Inspected	Inspected	Inspected	100%	NA
1.4	Identification of polluting points in Kadalundi river & awareness campaign - River walk(puzha nadatham – 15 km length)	Malappuram Municipality	Completed		Awareness Campaign and River Walking Done	Inspection & Cleaning activities doing	100 %	NA
1.5	Sanitation facility and treatment of waste water in the markets - Treatment plant	Malappuram Municipality	Completed	New Building Construction Process	New Building Construction Process		50%	New Building Construction Process
1.6	The discharge of waste water from the surrounding houses to the Valiyathodu - Blocking of discharge of liquid waste	Malappuram Municipality	Completed	100%	100%	100%	100%	
1.7	Identification of illegal outlets into storm water drains and fine imposed on such units.	Malappuram Municipality	Ongoing	Ongoing	Ongoing	Inspection continuing	Inspection continuing & action taken	NA
1.8	Biodegradable waste	Malappuram						

	Bio bins – 176 Bucket compost – 269 Thumboormuzhi Aerobic bins - 4 Biogas plant -55	Municipality	March 2020 March 2020 March 2020 March 2020	March 2020 March 2020 March 2020 March 2020	Completed Completed Completed Completed	Completed Completed Completed Completed		100% 100% 100% 100%
1.9	Non biodegradable waste MCF Plastic shredding and Bailing Echo Kiosk	Malappuram Municipality	March 2020 Completed March 2020	March 2020 Completed March 2020			DPR under preparation Unit Functioning	100%
1.10	Identification and monitoring of illegal activities CC tv Network installation	Malappuram Municipality	March	March			Under Processing	Nil

			2020	2020				
	2.Kerala State Pollution Control Board							
No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
2.1	River water quality Monitoring- Thirurangadi, Hajiyarpally National Water Quality Programme(NWMP)	KSPCB	Ongoing; Monthly frequency			Ongoing; Monthly frequency		
2.2	River water quality Monitoring - Thirurangadi, Kooriyad, Manikut, Hajiyarpally, Anakkayam,	KSPCB	Ongoing; Seasonal - Pre - monsoon, monsoon, post - monsoon			Ongoing; Monthly frequency		

	Oravambrum - State Water monitoring programme (SWMP)							
2.3	Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc. in Malappuram Municipal area	KSPCB	Ongoing; Interval ; Red- 1 month, Orange- 3 months, Green- 6 months			Ongoing;		

3.Ground Water Department

No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
3.1.	Ground Water resources and	Ground water Department		No action included	No action included	No action included		

<p>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</p>			<p>in the approved action plan to be performed by Ground Water Department</p>	<p>in the approved action plan to be performed by Ground Water Department</p>	<p>in the approved action plan to be performed by Ground Water Department</p>		
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	ranges from 69.43 % to 79.84%)							
3.2	<p>Ground water recharging / rain water harvesting</p> <p>(Earlier status : The average pre - monsoon groundwater level ranges from 7.59mbgl - 13.57 mbgl. Groundwater Department has implemented 3 no of roof top rain water recharging through recharge pit schemes in Vengara block.)</p>	Ground water Department		No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department		
3.3	<p>Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps</p> <p>(Earlier status :</p>	Ground water Department		No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department		

	Groundwater Department has 6 observation dug wells and 14 bore wells in the river stretch. (report attached) (Map No: 7 attached))			nt	nt	nt		
3.4	For regulating use of ground water for irrigation purpose, adopting good irrigation practices (Earlier status : The total irrigation draft in the area ranges from 979.683 - 1857.49 ha.m.)	Ground water Department		No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department	No action included in the approved action plan to be performed by Ground Water Department		

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

Sl.No	Name of point	PARAMETERS				
		pH	DO (mg/l)	BOD(mg/l)	COD (mg/l)	FC (cfu/100 ml)
1	Valiyangadi drain	6.45	7.06	1.46	3.9	60
2	Valiyangadi bypass drain	Dried				
3	Vallyathod drain	7.56	6.73	1.73	3.6	20
4	Hajiyarpally	7.21	6.86	2.46	3.8	40



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National Mission for Clean Ganga
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RIVER TIRUR, MALAPPURAM

S. No.	Activity to be monitored	Timeline	Submission of progress by state/UT-Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation		
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured		STP Repairing project DPC approved and sent to TS
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		Action plan prepared
5	Chief Secretaries may set up appropriate monitoring mechanism at state level <ul style="list-style-type: none"> • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose. 		
	<ul style="list-style-type: none"> • Monitoring at State level must take place 		
6	Progress report may be furnished by the State/UTs to <ul style="list-style-type: none"> • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB 		Last updated report submitted was on June 25,2025
6.	Progress Report may be comprised of details		(i)Identified 17 drains out of which 9 were additionally

1	<p>along with completion timelines on:</p> <p>I Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.</p> <p>II <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>III <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status</p> <p>(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p> <p>(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;</p> <p>(vi) Preventing dumping of waste and scientific</p>	<p>identified on 11.07.2019</p> <p>(ii) Tirur Fish Market STP - 45 KLD- working condition. Inspection was conducted by pollution control board and repairing works has been done as per the suggestions of pollution control board .laboratory analysis has been done and parameters found to be within limits</p> <p>(ii) Tirur municipal Bus StandSTP-50 KLD –Working Condition. Inspection was conducted by pollution control board and STP sample collected and laboratory analysis has been done and parameters found to be within limits.</p> <p>iii)NIL</p> <p>(iv)De centralized treatment facilities, Disposal using sanitary landfills, composting operations, MRF, MCF etc. Slaughter house- completed civil work. Electrical installation works started.</p> <p>(v)Attached as Annexure II-Analysis report during the month of June 2025</p> <p>BMW are being disposed scientifically through</p>
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<p>waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.</p> <p>(vii)Ground water regulation</p> <p>(viii) Adopting good irrigation practices,</p> <p>(ix) Protection and management of food plain Zones (FPZ),</p> <p>(x) Rain water harvesting,</p> <p>(xi)Maintaining minimum Environmental flow of river</p> <p>(xii) Plantation on both sides of the river</p> <p>(xiii) Setting up biodiversity parks on flood plains by removing encroachment</p>		<p>IMAGE. Municipality have MRF, MCF facilities</p> <p>(vii)NA</p> <p>viii)Complying</p> <p>(ix)NA</p> <p>(x) Complying</p> <p>(xi) Complying</p> <p>(xii) NA</p> <p>(xiii) Reported that encroachment survey is completed and now the process of laying survey stones is in progress.</p>
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ACTION PLAN FOR RIVER TIRUR, KERALA

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

1.1.1	Strengthening the right side bund of Tirur- Ponnani puzha at Porur, ward no.1 Tirur Municipality	Irrigation Department	6 Months	Work Completed	Work Completed	Work Completed	100%	Work Completed. Bill Paid (Rs 2984168/- including GST)
1.1.2	Cleaning and development of old Ponnani thodu at Thazhepalam	Irrigation Department	6 Months	Work Completed	Work Completed	Work Completed	100%	nil
1.1.3	Repair and Rehabilitation of Koottayi Regulator cum Bridge across Thirur-Ponnani Puzha in Mangalam Grama panchayatin Malappuram Dist	Irrigation Department	18 Months	0%	0%	0%	8%	Cracks on girders and settlement of 4 piers towards right bank has seen on 18/11/2023. So the work can be continued only after addressing these issues. While preparing the estimate based on the study report from KERI Peechi, the solution for the new issues also has to be finalised. Meeting held on 29-11-2023 at the office of CE I&A in the presence of CE IDRb concluded to

								<p>conduct a detailed technical study by an expert team. A Technical committee has been formed as per order number GO No . 488/2024/WRD dated 28-06-2024. Technical committee team visited the site on 08-08-2024 and suggested for hydro graphic survey at the site. Hydro graphic survey wing has completed the survey work for an amount of 1.34662/- lakhs . The hydrographic chart,Reduced level chart and Cad files submitted by Hydro graphic survey wing are submitted to CE I&A ,Tvm. Technical committee meeting conducted on 10/12/2024 at IDRRB ,TVMoffice</p>
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.Based on the meeting minutes of the Technical Expert Committee, DPR of 18.10 crores of the recast estimate has been submitted to CE I&A TVM On 24/05/2025.

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TIRUR MUNICIPALITY – SHORT TERM ACTION PLAN

No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
1.2.1	Provide septic tank for nearest houses	Tirur Municipality	Dec 2019	Completed	Completed	Completed	100%	Completed
1.2.2	Establishment of Solid waste Treatment Plant ThumboorMozhi Model Aerobic Bin	Tirur Municipality	March 2020	Work ongoing	Work ongoing	Work ongoing	20%	Work ongoing
1.2.3	Establishment of Non Degradable waste treatment Plant Resource Recovery facility	Tirur Municipality	March 2020	DPR preparation	DPR preparation	DPR preparation	NA	DPR preparation

	Centre Plastic Shredding Unit Segregation shed							
1.2.4	Slaughtering House	Tirur Municipality	December 2020	Work ongoing	Work ongoing	Work ongoing	80%	Work ongoing
1.2.5	Fencing on Bridgeside Thalakkadathur Bridge	Tirur Municipality	December 2020	Completed	Completed	Completed	100%	Completed
1.2.6	Installation of CCTV Camera near the river Bank Thalakkadathur Bridge	Tirur Municipality	May 2020	Ongoing	Tender Stage	Tender Stage	NA	Ongoing
1.2.7	Planting of Bamboo seedlings on the river bank (Thazhepalam)	Tirur Municipality	June 2020	Ongoing	Ongoing	Ongoing	20%	Ongoing
1.2.8	Renovation of Effluent treatment plant at fish Market AMC Granted ETP with Aeorobic System	Tirur Municipality Tirur Municipality	June 2019	Completed	Completed	Completed	100%	Completed
1.2.9	Setting up of STP at Private Bus stand	Tirur Municipality	June 2020	Completed	Completed	Completed	100%	Completed
1.2.10	Setting up of a new drain after demolishing the old one. The old one was the hub of the waste water outlet of the shops and other establishments. The proposed drain is constructing in the middle of the road so as to avoid intrusion of pipes from outside	Tirur Municipality	June 2020	Not started	Not started	Not started		Not started
1.2.11	Identification of illegal outlets into storm water drains and fine shall be imposed on such units	Tirur Municipality		Ongoing	Ongoing	Ongoing		

3	Cheriyamundam Grama panchayat							
No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
1.3.1	Fencing on bridge side Thalakkadatur	Cheriyamundam Grama panchayat	March 2020			completed		
	4.Kerala State Pollution Control Board							
No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
1.4.1	River water quality Monitoring- Thalakkadathur National Water Quality Programme(NWMP)	KSPCB	Ongoing; Monthly frequency			Ongoing; Monthly frequency		
1.4.2	River water quality	KSPCB	Ongoing;			Ongoing		

	Monitoring State Water monitoring programme (SWMP)		Seasonal					
1.4.3	Inspection and effluent quality monitoring of the flats, Industrial units, Service stations, hospitals, auditorium, hotels in Municipal area		Ongoing; Interval; Red – 1 month, Orange- 3 months, Green- 6 months			Ongoing		
5.Ground Water Department								
No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 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	Ground water Department		NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		

	total number of 2 blocks (Tirur and Kuttippuram) comes under the Tirur river basin. These two blocks are semi-critical blocks and the stage of groundwater extraction ranges from 77.75 % to 77.92%)							
1.5.2	Ground water recharging / rain water harvesting (Earlier status : The average pre -monsoon groundwater level ranges from 6.14mbgl - 8.49 mbgl.)			NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		
1.5.3	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or handpumps (Earlier status : No observation well along the river stretches)			NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		
1.5.4	For regulating use of ground water for irrigation purpose, adopting good irrigation practices (Earlier status : The total irrigation draft in the			NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		

	area ranges from 49.14 - 870.97 ha.m.)							
6. ACTION PLAN BY VARIOUS GRAMA PANCHAYATHs- Thalakkad, Vettom, Mangalam								
No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
1.6.1	Protection of Thirur Ponnani River	Thalakkad grama panchayath hand over fund to District Panchayat	31.03.2020			Completed		
1.6.2	Installation of CC TV camera on Yetterikadavu Kunjulikkadavu Mangattiri Bridge, Aikkanchiri Bridge, Paravanna Bridge	Vettom - KS SECURITY SYSTEM	Spill over due to lack of fund			Project for installation of cctv camera with high specification is decided to include 2024-25 annual projects		
1.6.3	Installation of CC TV camera	Mangalam grama panchayath Win Plus Agency, Kondotty	Completed			Completed		
1.6.4	Haritha Keralam Thirur-Ponnani puzha protection	Mangalam grama panchayath Nirmithi Kendra, Kozhikkodu	31.03.2020			Completed		

ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN TIRUR RIVER

FOR THE MONTH OF JUNE 2025

SI NO	Name of point	PARAMETERS				
		pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	FC(cfu/100ml)
1	Drain near Tirur Railway station	6.83	4.4	1.53	4.1	20
2	Thazhepalam drain	7.09	8.06	2.33	4.6	360
3	Naduvilangadi drain (old ponnanihodu)	Dried				
4	Annassery drain	Dried				
5	Canal at CV Land	Dried				
6	Canal at Mangalam thuruth	6.89	7.93	2.93	4.7	80
7	Canal at Pullooni	7.10	6.06	2.86	4.6	260
8	Drain near Mangattiri bridge	Dried				
9	Drain near Ettirikkadavu bridge	7.07	4.26	1.67	3.9	20
10	Epothingal	6.82	4.2	2.26	4.1	80
11	Asarikkadav	7.13	3.8	1.2	4.2	140
12	Kandanathkadav	Dried				
13	Pancharamoola	6.92	5.53	2.73	4.4	100
14	Kakadav	7.22	4.06	1.67	4.2	20
15	Kanathkadav	7.30	4.06	3.86	4.5	260
16	Drain near tirur railway station	Dried				
17	Payyanangadi (kadayithodu)	7.00	2.4	1.46	3.9	40

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 JUNE 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 APRIL 2025	Progress in the month of MAY 2025	Progress in the month of JUNE 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 APRIL 2025	Progress in the month of MAY 2025	Progress in the month of JUNE 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 APRIL 2025	Progress in the month of MAY 2025	Progress in the month of JUNE 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 APRIL 2025	Progress in the month of MAY 2025	Progress in the month of JUNE 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 APRIL 2025	Progress in the month of MAY 2025	Progress in the month of JUNE 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 APRIL 2024	Progress in the month of MAY 2025	Progress in the month of JUNE 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 10%			10%	
2	Provide fencing on the sides of the Bridge	Irrigation department	31.03.2021	SHO on 22.08.2024 for providing chain linked fencing on Kothi bridge(Work in progress 30% completed) & SHO on 20.07.2024 for providing chain linked fencing for Mooriyad road bridge(Work 100% completed)				
3	Dredging , Desilting & removal of weeds from E K canal (11.21 km)	Irrigation department	31.07.2019	Work entrusted to Kerala Waterways & Infrastructure Ltd (KWIL)				
4	Bio park in Kozhikode District	Irrigation department		Land for the proposed bio park is to be demarcated by the Revenue authorities after necessary boundary survey and subsequent bio cover works are to be done by the Social Forestry Department				
5	Flood prone mapping in Kozhikode District	Irrigation department		Action to be taken by the Hydrology Wing of Irrigation Department as this needs data collection, scientific analysis and modelling skills				

Kerala State Pollution Control Board

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of APRIL 2025	Progress in the month of MAY 2025	Progress in the month of JUNE 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 APRIL 2025	Progress in the month of MAY 2025	Progress in the month of JUNE 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 APRIL 2025	Progress in the month of MAY 2025	Progress in the month of JUNE 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 APRIL 2025	Progress in the month of MAY 2025	Progress in the month of JUNE 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 10 %(Work halted due to off season)	10%	
E	E-flow (by micro water shed management)	Irrigation Department	3 years			Action to be taken by the hydrology wing of irrigation department as this needs data collection, scientific analysis and modeling skills. The matter has been communicated to the Hydrology wing Assistant Engineer at Kozhikode.		
E	Flood plain zone (protection and management)	Irrigation Department	3 years			Action to be taken by the hydrology wing of irrigation department. The matter has been communicated to the Hydrology wing.		
E	Greenery development (plant in trees on the banks)	Irrigation Department	3 years			Not reported		Not reported



KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

കോഴിക്കോട് റീജിയണൽ ഓഫീസ്
REGIONAL OFFICE, KOZHIKODE

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



LIFE
LIVING IN FRESHWATER
INTEGRATED FOR
ENVIRONMENTAL
SUSTAINABILITY

Environmental Engineer
CALICUT
Date: 07/07/2025
Pollution Control Board

ANALYSIS REPORT OF RIVER WATER

Report No.	K R O S 5 6 0 9 / 1 to 5	Date:	0 3 0 7 2 0 2 5					
Date of Sample Collection	0 6 0 6 2 0 2 5	Date of receipt of the sample	0 9 0 6 2 0 2 5					
Sampled by:	RL, KKD	Time	Hours: 1 0 : 0 0 AM					
Sampling Method	APHA1060B,a	Sample ID	KL1, KL2, KL3, KL5, & KL6					
Sample container	PC 2.5 L	Sample Lab Code	KROS :5609/1-5					
Source:	KALLAI RIVER WATER	Ref.letter No.	PCB/KKD/DO/ Polluted River Stretch/2018 Vol. IV. Dated 09.06.2025					
Specific sampling location:	KALLAI POLLUTED RIVER STRETCH	Received from:	EE,DO,KKD					
Sample preservation:	Ice box	Period of analysis:	09.06.2025-02.07.2025					
		No. of samples	5					
		Analysed by:	SNS/NSS/PVH/MT/AKR					
		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	7.98	8.13	8.03	7.43	7.11
2	CONDUCTIVITY	µmhos /cm	APHA 2510B	694	379	391	1798	17130
3	BOD	mg/L	IS3025 (Part 44)	1.8	1	2	2.2	1
4	DISSOLVED OXYGEN	mg/L	APHA 4500-O,C	4.5	3.3	4.1	4.6	5.7
5	TOTAL COLIFORM,	CFU/100ml	APHA 9222B	21000	15000	28000	60000	56000
6	FECAL COLIFORM	CFU/100ml	APHA 9222D	10000	9000	7000	10000	31000
7	FECAL STREPTOCOCCUS	CFU/100ml	APHA 9230 C	140	210	180	80	240
8	TEMPERATURE	°C	APHA 2550B	30	30	30	31	31

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 .

[Signature]
Scientist in charge

NGT Progress Report for the Month of February 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 Kaduppini 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 started
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%)
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 in progress(Work completed 30%)
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

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
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/IA/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	RK1-Repair and Rehabilitation of Koottayi Regulator cum bridge across Tirur -Ponnanipuzha 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 IDRDB 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. Expert committee meeting report is awaiting for revise the estimate.

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
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	The flow in the perumba thodu is contaminated with the waste from Payyannur market and its surroundings. If the existing SWECEB was reconstructed and its shutters were closed, the polluted water may get stagnated at the upstream side and serious environmental problems will be created. Hence at present construction of SWECEB is not environmentally feasible. If treatment facility is provided by local self government and only fresh water releases to thodu, the SWECEB 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.This work comes under the jurisdiction of MI Division Kannur.
B	RAMAPURAM RIVER				

1	Rejuvenation of Ramapuram River-Providing fencing on Ramapuram bridge across Ramapuram river in Madayi Panchayath.		AS/590/23/33743 dated 04/03/2024 19.00 lakhs.		AS obtained	TS estimate under preparation.Sought permission from PWD to put up fencing.PWD KSTP/bridges has to accord sanction with the consent of CE (PWD) asper letter of PWD No.KSTP/Kannur/AE-2/2023/PP dated 01.08.2024 Executive Engineer,Irrigation Division,Thalassery submitted a request to Chief Engineer,PWD (KSTP) Thiruvananthapuram on 30.10.2024 in this regard and subsequent reminder requests on 6/12/24 & 4/1/25.Subsequently NOC received on 9/1/2025 and TS issued on 7.02.2025 vide order No.IRR/IA/EST_TS/1805/2023_5_2_1. Tendering process has been completed.LOA issued on 4.03.2025.Agreement to be executed.
C 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 lyothi 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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D	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 No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023 & 19/08/2023 for an amount of Rs.7.82,000/-


 Superintending Engineer

NGT Progress Report for the Month of May 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 Kaduppini 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 started.10% work completed.
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%)
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%
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

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, NHA/ Kannur for including fencing on both sides of bridges across uppala river which are under construction as part of NH66 widening
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/IA/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 IDRBB 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.

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
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	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 and 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.This work comes under the jurisdiction of MI Division Kannur.

B RAMAPURAM RIVER					
1	Rejuvenation of Ramapuram River-Providing fencing on Ramapuram bridge across Ramapuram river in Madayi Panchayath.		AS/59D/23/33743 dated 04/03/2024 19.00 lakhs	AS obtained	AS obtained as per Order No.AS/59D/23/33743 dtd 04.03.2024. NOC received from KSTP on 9/1/2025 and TS issued on 7.02.2025 vide order No.IRR/IA/EST_TS/1805/2023_5_2_1. Tendering process has been completed.LOA issued on 4.03.2025.Agreement executed. Site handed over on29/03/2025.
C 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 srutiny 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 jyothe 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 activites 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 peringeel 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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D	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 No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023 & 19/08/2023 for an amount of Rs.7,82,000/-


 Superintending Engineer

NGT Progress Report for the Month of June 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 Kaduppini 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 completed10% .(Work halted due to Off season)
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%)
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%
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

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
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/IA/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 IDRBB 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.

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		AS obtained	AS obtained as per Order No.AS/59D/23/33743 dtd 04.03.2024. NOC received from KSTP on 9/1/2025 and TS issued on 7.02.2025 vide order No.IRR/IA/EST_TS/1805/2023_5_2_1. Agreement executed. Site handed over on 29/03/2025. Letter sent to the contractor on 14.07.2025 for the completion of the work at the earliest.


 Superintending Engineer

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 UPPALA, KASARGOD

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	Progress Report may be comprised of details along with completion timelines on: (I) Identification of polluting sources including drains		

<p>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>		
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	<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 UPPALA, KASARAGOD DISTRICT, KERALA
MONTHLY PROGRESS REPORT FOR THE MONTH OF JUNE 2025
RIVER UPPALA, KASARGOD

No.	Activity	Implementing agency	Time line	Progress in the month of APRIL 2025	Progress in the month of MAY 2025	Progress in the month of JUNE 2025		% works completed	Details of works remaining
(as per Action Plan)									
C(ii)	Material collection facility. Operation	MangalpadyGramapanchayath	2019					100%	Completed. Kubanoor Plant is working
C	Waste management including purchase of vehicle to collect waste.	MangalpadyGramapanchayath/ Green Space Private company	2019-2020					-	Approval for purchase of vehicle not sanctioned

									from Government
E	Installation of camera	MangalpadyGramapanchayath	Mar-20						
C	Electrification of material collection facility	ManjeshwaramGramapanchayat	2019-2020	Electrified	Electrified	Electrified		100%	Completed
C	Transportation of collected waste	ManjeshwaramGramapanchayat	Mar-20	820 KG SEGREGATED AND 65560 KG REJECTED WASTE TRANSPORTED	20210 KG REJECTED WASTE TRANSPORTED	11670 KG REJECTED WASTE TRANSPORTED		100%	Completed
E	Installation of camera	ManjeshwaramGramapanchayat	Mar-20	CC TV INSTALLED AT 4 PLACES BY KELTRON , CONNECTED TO POLICE STATION AND PANCHAYATH OFFICE INSTALLATION OF 14 CC CAMERA , CAMERA INSTALLATION COMPLETED	CC TV INSTALLED AT 4 PLACES BY KELTRON , CONNECTED TO POLICE STATION AND PANCHAYATH OFFICE INSTALLATION OF 14 CC CAMERA , CAMERA INSTALLATION COMPLETED	CC TV INSTALLED AT 4 PLACES BY KELTRON , CONNECTED TO POLICE STATION AND PANCHAYATH OFFICE INSTALLATION OF 14 CC CAMERA , CAMERA INSTALLATION COMPLETED		100%	Completed
C	Tying of net on both sides of the bridge	Irrigation Department	2019-2020			A letter has sent to The Project Director Project			

						implementat ion Unit NHA I Kannur for including fencing on both sides of bridges across uppala river which are under construction as part of NH 66 widening			
E	Continuous vigil on waste dumping on roads	Police Department							

Sd/-

Environmental Engineer

UPPALA RIVER - UPPALA BRIDGE (Existing NWMP Station)		
Sampling Point		Uppala Bridge
NWMP Station Code		2306
Latitude		12°41'41.7"N
Longitude		74°54'16.9"E
Date of Sampling		20.06.2025
Nature and flow of the river		Moderate flow
Sl.No	Parameters	Uppala Bridge
1	Temperature, 0C	26
2	Dissolved Oxygen, mg/l	6.5
3	pH	7
4	Conductivity, µmhos/cm	106
5	BOD, mg/l	1.9
6	Nitrate-N, mg/l	3.3
7	Turbidity, NTU	1.5
8	Phenolphthalein Alkalinity, mg/l	...
9	Total Alkalinity, mg/l	21
10	Chloride, mg/l	21
11	COD, mg/l	5.8
12	TKN, mg/l	...
13	Ammoniacal-N, mg/l	0.4
14	Total Hardness as CaCO ₃ , mg/l	28
15	Calcium as CaCO ₃ , mg/l	23
16	Magnesium as CaCO ₃ , mg/l	5
17	Sulphate, mg/l	6.6
18	Calcium (Ca ²⁺), mg/l	9.2
19	Magnesium (Mg ²⁺), mg/l	1.2
20	Sodium, mg/l	12
21	Total Dissolved Solids, mg/l	78
22	Total Fixed Solids, mg/l	54
23	Total Suspended Solids, mg/l	339
24	Phosphate, mg/l	0.2
25	Boron, mg/l	0.5
26	Potassium, mg/l	1.1
27	Fluoride, mg/l	0.35
28	Total Coliform, cfu/100 ml	3900
29	Fecal Coliform, cfu/100 ml	1300
30	Fecal Streptococcus, cfu/100 ml	70
31	% SODIUM	47.0
32	SAR	0.98

UPPALA RIVER - UPPALA RIVER NEAR BHAGAVATHI TEMPLE (Bhagavathi Gate) - (Proposed NWMP Station)			
Sampling Point		Uppala River Near Bhagavathi Temple (Bhagavathi Gate)	
Distance from existing NWMP Station		878.66 m	
Latitude		12°41'20.1"N	
Longitude		74°54'34.0"E	
Date of Sampling		20.06.2025	
Nature and flow of the river		moderate flow	
Sl.No	Parameters	Unit	Uppala River Near Bhagavathi Temple (Bhagavathi Gate)
1	Temperature	° C	28
2	pH	-	6.5
3	Conductivity	µmhos/cm	138
4	Turbidity	NTU	0.1
5	BOD	mg/l	1.1
6	Dissolved Oxygen	mg/l	5.5
7	Total Coliforms	cfu/100ml	10400
8	Faecal Coliforms	cfu/100ml	3400
9	Faecal Streptococcus	cfu/100ml	160
10	Chlorides	mg/l	15
11	Total Alkalinity	mg/l	31
12	Total Hardness	mg/l	36
13	Calcium Hardness	mg/l	29
14	Magnesium Hardness	mg/l	7
15	Calcium	mg/l	11.6
16	Magnesium	mg/l	1.7
17	Total Dissolved Solids	mg/l	88
18	Sodium	mg/l	5.0
19	Potassium	mg/l	1.0
20	Nitrate	mg/l	3.6

Sd/-
Assistant Scientist

Monthly Analysis report of river -Pullur- JUNE 2025		
Sampling Date: 16/06/2025		
Station Name	RIVER PULLUR AT PULLUR BRIDGE	
Type of Water body	RIVER	
Sl.No	Determinants	Values
1	Temperature, 0C	26
2	Dissolved Oxygen, mg/l	6.8
3	pH	8.2
4	Conductivity, μ mhos/cm	78
5	BOD, mg/l	1
6	Nitrate-N, mg/l	4.6
7	Turbidity, NTU	4.5
8	Phenolphthalein Alkalinity, mg/l	-
9	Total Alkalinity, mg/l	24
10	Chloride, mg/l	9
11	COD, mg/l	5
12	TKN, mg/l	-
13	Ammoniacal-N, mg/l	0.4
14	Total Hardness as CaCO ₃ , mg/l	31
15	Calcium as CaCO ₃ , mg/l	20
16	Magnesium as CaCO ₃ , mg/l	11
17	Sulphate, mg/l	5
18	Calcium (Ca ²⁺), mg/l	8.0
19	Magnesium (Mg ²⁺), mg/l	2.7
20	Sodium, mg/l	6.0
21	Total Dissolved Solids, mg/l	61
22	Total Fixed Solids, mg/l	45
23	Total Suspended Solids, mg/l	494
24	Phosphate, mg/l	0.2
25	Boron, mg/l	0.5
26	Potassium, mg/l	1.0
27	Fluoride, mg/l	0.87
28	Total Coliform, MPN/100 ml	7100
29	Fecal Coliform, MPN/100 ml	2100
30	Fecal Streptococcus, MPN/100 ml	90
31	% SODIUM	43.0
32	SAR	0.65

Sd/

ASSISTANT SCIENTIST