

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 - March 2025

1. Short Term Plan

Maintenance and de-bottle necking of existing sewerage network

No.	Activity	Implementing agency	Time line	Progress in the month of Jan 2025	Progress in the month of Feb 2025	Progress in the month of March 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 & Enchakkal under preparation
2.1.2	Rehabilitation/upgradation of Thaliyal and Aranoor Sewerage Pump house by rehabilitation of existing well, construction of new well and grit chamber, installation of new pump Sets.	Kerala Water Authority	May 2020				100%	Completed
							100%	Work completed

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

	overflow of sewage reaches in houses having sewerage connection and this may lead to discharge of sewage into River Karamana.							
2.1.8	Divert the sewer line from the School compound of Government Karamana High School	Kerala Water Authority	Completed				100% completed	Work Completed.
2.1.9	Rehabilitation by laying new lines increasing size of undersized main and reconstruction by dilapidated manholes for the last 3 years	Kerala Water Authority	May 2020	0%	0%		100%	Works completed – 75No. (Rs.15.41cr) AMRUT-44, State plan-28 MLA ADF/SDF-3 Completed (Rs. 3.cr.) AMRUT-1, State plan-0 One AMRUT work short closed due to non-obtaining Road cutting sanction.
	Total works in progress/completed (76No.) Works dropped (2No.)						Dropped – 2 No. (Rs. 1.52cr.) State plan-2	Two works dropped due to not getting offers on repeated tenders and expiry of AS
2.1.10	Extension of sewer network wherever technically feasible in new areas of existing blocks	Kerala Water Authority	May 2020	0.1%	.1%	0%	99.3%	Works completed - 21 No. (Rs. 17.21 Cr.) AMRUT-12, State plan-7 nos, 4 nos on-going MLA ADF/SDF-1

	In progress/On-going (4No.)							
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								<p>Land acquisition process for 4 works completed and land handed over to KWA and LA for the work of laying sewer trunk main from Murinjapalam towards Kannammoola Joint site inspection of the site by KWA officers and LA Thahasildar 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.49.68 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. For another work in order to lay of DI pipe across the box culvert, Sanction for the same is obtained from the Irrigation Department. Box culvert work 100%completed. For another work</p>
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								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. After discussion at SE level the contractor agreed to complete the work before 31.05.2025. Hence the work extended up to 31.05.2025.
2.1.11	Procurement of sewer cleaning machines and equipment maintenance	Kerala Water Authority	Mar 2020	0%	0%	0%	100%	Work Completed.

1. Long Term Works

Sl No.	Long term measures proposed	Implementing agency	Amount Required (Rs.in Crore)	Time line	Progress in the month of January	Progress in the month of February	% works completed	Details of works remaining
3.1.1	Extension of sewerage system to Block F to G coastal belt	Kerala Water Authority		Three years				Consultant appointed for preparing Detailed Project Report for uncovered wards of the Thiruvananthapuram Corporation and Rehabilitation of existing system was terminated from the contract due to breach of contract by the firm vide Proceedings No. KWA/SE/SEW/EOI/REPL/338/2020-2021 of
3.1.2	Extension of sewerage system to Block H to R							
3.1.3	Extension of sewerage system to newly							

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

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

Managing Director

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

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

8	Renovation of Puthenkotta Sub Section Office and construction of compound wall, reconstruction of damaged compound walls with barbed wire fencing protection at Kuriathy pumphouse premises and Arannoor pumphouse under Sewerage Section II, Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
9	TSS -Zone II - Laying 600mm dia RCC NP3 pipe sewer main towards Edapazhanji Chithra nagar (IV th reach) Chainage 2738 m to 2908 m for land acquisition cost	Sewerage Division, KWA, Trivandrum	State Plan		Completed
10	TSS - D Block - Zone II - Supplying Conveying and Laying 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam to Kannamoola - Ch 0 to 342m	Sewerage Division, KWA, Trivandrum	State Plan		Ongoing
11	TSS - Reconstruction of old dilapidated brick manholes, raising of manholes and replacement of RCC covers with CI covers at Thampanoor and Manjalikulam area under sewerage section No.2, Kuriathy.	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 Koopakaramadom	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	TSS - Interconnection work with 200 mm SW pipe line from the existing sewer line in front of Thampanoor Police Station to Aristo Junction	Sewerage Division, KWA, Trivandrum	State Plan		Completed
42	TSS-Providing and laying 200mm SW sewer line from RP lane towards Kuravankonam main line under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
43	TSS-Increasing capacity of 150 mm SW pipe to 200 mm SW pipe and constructing RCC manholes at Manacaud Valiyapalli, Thampuran Nagar, Avittom Thirunaal Welfare Association, CRW-77 to 82 and KRWA-144 to 155 under Sewerage Section 1 , Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
44	TSS-Providing sewage facility/rehabilitation of damaged line in six branch lanes at Athani, Vanchiyoor	Sewerage Division, KWA, Trivandrum	State Plan		Completed
45	TSS - Providing and laying 200 mm SW sewer line from DBRA 93 at Devaswom Board Jn.Nanthancode by replacing old damaged 150mm sewer line under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed

46	TSS-Providing and laying 200mm SW sewer line at Regent Court lane,Kuravankonam under Sewerage Section, Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan		Completed
47	TSS -Providing and laying 250 mm SW sewer line interconnecting from Sreerangam lane towards CSM Nagar under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
48	TSS-Replacing of old and damaged 150 mm SW sewer line with 300 mm SW sewer line,near Sreekrishna Swami Temple, Ambalamukku from East Nada to Murali lane, under sewerage section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
49	TSS-Providing and laying 200 mm SW sewer line from House No.VRA-14 to VRA-37 in Madancovil lane Vellayambalam under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
50	TSS-Providing and laying 200 mm SW sewer line at Puthupalli lane from House No.PRA-68 at Chalakuzhy-under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
51	TSS-Providing and laying 200 mm SW sewer line from House No.63 to 70 at CSM Nagar- under Sewerage Section,Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
52	TSS- Replacing of old and damaged 100mm SW sewer line with 200 mm SW sewer line at Pullaikonam Lane,Sasthamangalam under Sewerage Section,Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
53	TSS-Replacing of old damaged 150 mm, SW sewer line with 250 mm SW sewer line at Panicker's Lane C- Lane under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed

54	TSS-Providing and laying 200mm dia SW sewer branch line at Pallivila Lane and branches of Mythiri Lane in Kuravankonam-Ambalamukku Road	Sewerage Division, KWA, Trivandrum	State Plan		Nonstarter
55	TSS-Standardization of electrical installation of 315 KVA substation at Kannammoola pump house	Sewerage Division, KWA, Trivandrum	State Plan		Completed
56	TSS -Providing and laying 200 mm SW sewer line at Thamarabhagam near pond , Kumarapuram under Sewerage Section,Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
57	TSS- Providing and laying 200 mm SW Sewer line and reconstructing damaged junction pits at Madancovil Lane to RNP Lane at the side of drain under Sewerage Section, Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan		Completed
58	TSS- Providing and laying 300 mm and 250 mm SW sewer line at Koonamkulam Lane from pond to Paloor Lane by replacing old damaged undersized pipes under Sewerage Section, Sasthamangalam (Reach I)	Sewerage Division, KWA, Trivandrum	State Plan		Completed
59	TSS- Providing and laying 250 mm SW sewer line at Koonamkulam Lane from pond to Paloor Lane by replacing old damaged under sized pipes under Sewerage Section, Sasthamangalam (Reach II)	Sewerage Division, KWA, Trivandrum	State Plan		Completed
60	TSS- Providing and laying 200 mm SW sewer line at Koonamkulam lane from KPRA-A-56(8) and Pottakuzhi Jeevan Nagar-Karimbichivilla under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
61	TSS-Maintenance of septage receiving station at 107 MLD STP at Muttathara-Supply, erection and trial running of non clog sewage submersible pumpset for Dilution tank	Sewerage Division, KWA, Trivandrum	State Plan		Dropped

62	TSS-Providing sewer line towards House no. RNRA 21 to 25 C,D,E Lane and RNRA E7 of Resmi Lane Muttada	Sewerage Division, KWA, Trivandrum	State Plan		Completed
64	TSS-E-block Zone II-Laying 600 mm RCC NP3 pipe sewer main towards Edappazhinji Chitra Nagar (IVth reach) Chainage 2738m to 2908 m in connection with the commissioning of Jagathy-Kootamvila scheme- Land acquisition charges -Balance amount	Sewerage Division, KWA, Trivandrum	State Plan		Completed

STATE PLAN 2022-23

SI No.	Name of Work	Implementing office	Source of fund	Time line	Status
1	TSS-Reconstruction of old dilapidated brick manholes and raising of manholes at Enchakkal -Sreevaraham area	Sewerage Division, KWA, Trivandrum	State Plan		Completed
2	TSS-Reconstruction of old dilapidated brick manholes and raising of manholes at Pettah Palkulangara area	Sewerage Division, KWA, Trivandrum	State Plan		Completed
3	TSS-Mace-Urgent re-laying of 400 mm dia RCC sewer main and allied works at Azhikotta Jn under Sewerage Section No-1, Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Work short closed as per SE's direction.
4	TSS- Replacing of old and damaged 100 mm SW sewer line with 200 mm SW sewer line at Bains Compound and Cliff house area in Nanthancode ward under sewerage section, 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 I	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		Work 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- 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
23	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
24	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		
25	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
26	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

27	State Plan 2022-23-Attukal Pongala 2023-TSS- Preventive maintenance - Cleaning the sewer main and branch line using bucket type sewer cleaning machine under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Work arranged in connection with Attukal Pongala and is completed
28	State Plan 2022-23-Attukal Pongala 2023-TSS-Preventive maintenance - Raising of manhole covers and supplying and fixing CI MH cover at Palkulangara, Pettah and Enchakkal under Sewerage Section I, Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Work arranged in connection with Attukal Pongala and is completed
29	State Plan 2022-23-Attukal Pongala 2023-TSS-Preventive maintenance - Raising of manhole covers and supplying and fixing CI MH cover at Thampanoor and Manjalikulam RC areas under Sewerage Section No.II - Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Work arranged in connection with Attukal Pongala and is completed
30	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 Pongala and is completed
31	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 Association .	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	Agreement Executed
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	Agreement Executed
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 laying 250mm SW sewer line from Paloor lane House no.KPRA A55(2) to Koonamkulam pond near transformer	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	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	31.05.2025	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	Retendered

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	30.10.2025	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	30-08-2025	Tender evaluation
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	TS estimate submitted
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	15.03.2025	Tender evaluation
50	State Plan 2023-24 - TSS-supply erection trial run and commissioning of wet well submersible stand by pump set at Kannammoola	Sewerage Division, KWA, Trivandrum	State Plan	15.03.2025	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	15.03.2025	Work ongoing

52	State Plan 2023-24 - TSS-supply erection trial run and commissioning of non clog dry installed flood proof submersible pump set suitable for pumping raw sewage at Plamoodu pump house	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2025	Retendered
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STATE PLAN 2024-25

SI No.	Name of Work	Implementing office	Source of fund	Time line	Status
1	Rehabilitation & upgradation of sewer lines and manholes in Sree Ganga nagar Welfare Residents Association in Kuryathi ward	Sewerage Division, KWA, Trivandrum	State Plan	31.12.2025	TS estimate submitted
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	TS estimate submitted
3	Rehabitation of existing sewer main from electric post number PJ/PJ 50/9/3 to Jagathy post office	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	TS estimate submitted
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	TS estimate submitted
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 submitted
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	Agreement Executed
7	State Plan-2024-2025 - Laying sewerage line at VYASA nagar, Valiyasalai	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Tendered
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	TS Issued

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 Awarded
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	Tendered
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	Tendered
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	Tendered
14	TSS- Supply and laying alternate 900mm DI pumping main from sewerage pump house at kuriathy upto bypass at kallumood	Sewerage Division, KWA, Trivandrum	State Plan		
15	State Plan 2024-2025- Replacing of old and damaged sewer line through NB Street and NSS Karayogam of Jawaher Nager in Kowdiar Ward	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Work Awarded
16	State Plan 2024-2025- Replacing of old and damaged sewer line from Ambalamukku Vrindavan Gardens to Oolampara junction for Rectify Sewerage overflow in Ambalamukku sreekrishna Temple	Sewerage Division, KWA, Trivandrum	State Plan		

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

23	State Plan-2024-25 - providing roofing sheet for diesel generator installed at Plamoodu, Murinjapalam, Kannamoola and Pattoor pump houses, walking arrangements at bottom portion inside plamoodu pump house and replacing screening at grid chamber at Plamoodu, Murinjapalam and Pattoor pump houses	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Tendered
24	State Plan-2024-25 - TSS-Supply, erection, trial-run and commissioning of c/f stand by pump set at Kannammoola pump house	Sewerage Division, KWA, Trivandrum	State Plan	25.03.2025	Tendered
25	State Plan-2024-25 - TSS-Supply, erection, trial-run and commissioning of c/f stand by pump set at Plamoodu pump house	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2025	Tendered
26	State Plan-2024-25 - TSS-Supply, erection, trial-run and commissioning of c/f stand by pump set at Murinjapalam pump house	Sewerage Division, KWA, Trivandrum	State Plan	30.05.2024	Recast Estimate
27	State Plan-2024-25 - TSS - Raising of Manholes at Vivekananda Nagar and sastha Nagar in connection with the commissioning of Jagathy - Koottamvila Scheme and Laying 150mm dia SW sewer branch lane towards sastha Nagar SRA 144A to 144B & manhole raising at Chadiyara-Poojappura area	Sewerage Division, KWA, Trivandrum	State Plan		
28	State Plan-2024-25 - TSS - Supplying, erection and commissioning of electronic soft starter suitable for 70 HP sewage motor at Pattoor Pump House	Sewerage Division, KWA, Trivandrum	State Plan	25.04.2025	Tendered
29	State Plan-2024-25 - Maintenance of office building and pump house, replacing rusted, obsolete & damaged roof sheet of car shed and repairing of gate in Section Section office campus at Plamoodu and connected works.	Sewerage Division, KWA, Trivandrum	State Plan		

30	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 Awarded
31	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 Awarded
32	State Plan-2024-25 - TSS - D Block Zone II - Supplying, conveying, laying and jointing 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam - Kannamoola (Ch 849m to 1077m)	Sewerage Division, KWA, Trivandrum	State Plan	05.12.2025	Tendered
33	State Plan 2024-25-TSS- D Block Zone II -Supplying, conveying Laying and jointing 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam - Kannammoola under Sewerage Project Section, Plamoodu (Ch.572m to 787m)	Sewerage Division, KWA, Trivandrum	State Plan	05.12.2025	Retendered
34	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	25.03.2025	Work Awarded
35	State Plan 2024-2025- Supplying and laying sewer lines in Velavilakom lane in Padayani- Manjadimood road	Sewerage Division, KWA, Trivandrum	State Plan	13.02.2025	Work Awarded
36	State Plan 2024-2025- Comprehensive Proposal for Infra structure Enhancement of Sewerage Treatment Plant at Muttathara	Sewerage Division, KWA, Trivandrum	State Plan		
37	State Plan - 2024 - 25 – State Plan 2024-2025- Laying 300mm dia Sewer main line and 250mm dia SW Sewer branch lines from Kannammoola Ayyankali road common manhole towards Padinjattil lane - Road restoration- Additional Work	Sewerage Division, KWA, Trivandrum	State Plan	16.02.2025	

38	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	30.08.2025	Retendered
39	State Plan-2024 - 25 - Replacing of old and damaged 150 mm SW sewer line with 200 mm SW sewer line-in Kunnukuzhi RC Street	Sewerage Division, KWA, Trivandrum	State Plan		
40	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		Tender evaluation
41	State Plan--2024-25-Binoy line--Laying of new Sewerage Line at the branches in Benoy line V and line A at Marappalam-Muttada TKD road.	Sewerage Division, KWA, Trivandrum	State Plan		
42	State Plan--2024-25-Tagore Garden--Replacing of old and damaged SW lines with new higher sized sewer lines in Medical college Tagore garden towards Thamarabhadgam	Sewerage Division, KWA, Trivandrum	State Plan		
43	State Plan--2024-25--- Replacing of old ,undersized and damaged SW line at CSM Nagar House no 10 to 76 in Vazhuthacadu ward -	Sewerage Division, KWA, Trivandrum	State Plan		
44	State Plan--2024-25-- Replacing of old,under sized and damaged sewer line with new s w sewerline from Ration shop Near kattachal Bhagavathy Temple Towards Bhagavathy line	Sewerage Division, KWA, Trivandrum	State Plan		
45	State Plan--2024-25-- Providing and laying S W sewer line near Sabarigiri school and Various Places in kuravankonam ward	Sewerage Division, KWA, Trivandrum	State Plan		
46	State Plan - 2024 - 25 - TSS - TSS - Construction of new well and connected work at Pattoor pump house	Sewerage Division, KWA, Trivandrum	State Plan		

47	State Plan - 2024 - 25 - TSS - TSS - Construction of new well and connected work at Kannamoola pump house	Sewerage Division, KWA, Trivandrum	State Plan		
48	State Plan – 2024 – 25 – TSS - Innovative technologies - Installation of closed-circuit television (CCTV) at different Store Yards under Sewerage Division Pattoor	Sewerage Division, KWA, Trivandrum	State Plan		
49	State Plan – 2024 – 25 – TSS - Purchase of CI Man Hole covers for maintenance work under Sewerage Division, Pattoor	Sewerage Division, KWA, Trivandrum	State Plan		
50	Replacement of 300mm pumping main from Enchakkal to Mutathara	Sewerage Division, KWA, Trivandrum	State Plan		
51	TSS -Laying 200mm Sewer line from Karavila Road to Chithra Nagar	Sewerage Division, KWA, Trivandrum	State Plan		
52	State Plan – 2024 – 25 – TSS - Purchase of CI & RCC Man Hole covers, various SW pipes and Cold bitumen premix for maintenance work under Sewerage Division, Pattoor	Sewerage Division, KWA, Trivandrum	State Plan		
53	Pumping main stilling chamber to STP	Sewerage Division, KWA, Trivandrum	State Plan		
54	State Plan - 2024 - 25 - TSS - Providing and laying new sewer line from the existing M H at Njaramoodu towards Hill top and its branch line, from Thampuranmukku to Maruthankuzhy junction and a branch line starting from Edapazhinji Sastha Nagar	Sewerage Division, KWA, Trivandrum	State Plan		
55	TSS - D Block Zone II - Supplying, conveying, laying and jointing 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam – Kannamoola (Ch. 342 m to 952 m) – Land acquisition cost - Additional AS	Sewerage Division, KWA, Trivandrum	State Plan		02.02.2025

56	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 Awarded
57	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		Tendered

AMRUT

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

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

11	AMRUT 2.0 - Providing and laying 200 mm SW sewer line from house no MGRA 135 towards TKD Road Marapalam under Sewerage section Sasthamangalam.	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
12	AMRUT 2.0 - Providing and laying 200 mm SW sewer line in Panchami Garden H no. PGRA 1 to PGRA 35 in Jagathy ward, under sewerage section Sasthamangalam	Sewerage Division, KWA, Trivandrum	AMRUT		Completed
13	AMRUT 2.0 - SD - Providing and laying 300mm & 200 mm SW Sewer line at Arapura, Vattiyoorkavu, under Sewerage Section, Sasthamangalam, Reach 1	Sewerage Division, KWA, Trivandrum	AMRUT	28.02.2025	Ongoing
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 layin g 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

SMART CITY

Sl No.	Name of Work	Implementing office	Source of fund	Time line	Status
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1	Deposit work - Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system from Music college to MN Smarakam road (Model school junction to Mettukada Road ID -PWD -PH-4B - 142c) due to work carried out by smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
2	Deposit work - Smart city Thiruvananthapuram Ltd - Reconstruction/Maintenance of Sewerage system from Zam - Zam hotel to Palayam traffic lnt near VJT hall (VJT Hall flyover Road - 108) due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
3	Deposit work - Smart city Thiruvananthapuram Ltd - Reconstruction/Maintenance of Sewerage system from fly over bridge starting in front of Women's Hospital Road ID-120 & From Thampannoor Police station to Aristo Jn Road ID-140 due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
4	Smart city Thiruvananthapuram Ltd - Reconstruction / Maintenance of Sewerage system from Govt. Arts college to Music college Road ID - 121 (part-1) Norka - Gandhi Bhavan road	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
5	Smart city Thiruvananthapuram Ltd - Reconstruction / Maintenance of Sewerage system starting from Spencer junction to AKG Centre (Gas house road) Road ID - 152 due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed

6	Smart city Thiruvananthapuram Ltd - Reconstruction/Maintenance of Sewerage system from Norka building Thycadu to infront of Arts College (Road ID -PWD -PH 4B- 121(Part-2 portion) due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
7	Smart city Thiruvananthapuram Ltd - Reconstruction/Maintenance of Sewerage system from Sree Dharma Shastha Temple to Residence No.158 (Thycadu house-Keezhe Thampanoor road) (Road ID - 117-Part-2 portion) due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
8	Smart city Thiruvananthapuram Ltd – Reconstruction /Maintenance of Sewerage system from Sree Dharma Shastha Temple to MODEL school JN Road (Thycadu house- Keezhe Thampanoor road) (Road ID - 117-Part portion) due to work carried out by Smart city	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
9	T S S-Deposit Work- Smart city project- Shifting and laying 200 mm SW sewer line by replacing 150mm line near Vazhuthacaud Junction towards MP Appan road under Sewerage Section , Sasthamangalam. Road ID 104 Part1	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
10	T S S-Deposit Work- Smart city project- Shifting and laying 250 mm SW sewer line by replacing 150mm line From Bishop Pereira Hall Jn to Nanthavanam Jn. under Sewerage Section , Sasthamangalam. (Road ID 24)	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed

11	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system at Kalabhavan Mani Road(from Panavila jn to Womens college jn - Road id - 116) due to work carried out by Smart City.	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
12	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system from Vandrose Jn to Spencer Jn - Road id - 112) due to work carried out by Smart City	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
13	TSS- Smart city Thiruvananthapuram Ltd - Reconstruction / maintenance of sewerage system from Vandrose Jn to contonment police station (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 Vazhuthacaud 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-Vattiyoor kavu - 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 MARCH -2025

Name of River		KARAMANA					
Date and Time of Sample collection		3/3/2025					
Method of analysis		SAMPLE ID					
Sl No.	Parameters	SAMPLE ID					
		Peppara	Aruvikkara	Mangattukadavu	Pallathukadavu	Thiruvallom	Moonnattumukku
1	Temperature, degree celsius	29	28	30	30	30	30
2	DO,mg/L	7.6	7.8	7.5	3.6	0.9	0.3 (BDL)
3	pH	6.3	6.4	6.7	6.8	6.8	6.9
4	Electrical Conductivity, μ mhos/cm	41	52	85	2001	2701	524
5	BOD,mg/L	0.3 (BDL)	1.8	1.1	2.7	11	24
6	Nitrate,mg/L	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	18
7	Turbidity,NTU	1 (BDL)	1 (BDL)	1 (BDL)	2.7	3.4	4.1
8	Total Alkalinity as CaCO ₃ ,mg/L	20 (BDL)	20 (BDL)	24	128	148	112
9	Chloride,mg/L	8	12	16	488	676	62
10	NH ₃ N,mg/L	0.4 (BDL)	0.4 (BDL)	0.4 (BDL)	1.3	2	10.3
11	Total Hardness as CaCO ₃ ,mg/L	10 (BDL)	12	16	148	260	108
12	Calcium Hardness as CaCO ₃ ,mg/L	4 (BDL)	8	12	96	148	88
13	Magnesium Hardness as CaCO ₃ ,mg/L	4 (BDL)	4 (BDL)	4 (BDL)	52	112	20
14	Sulphate,mg/L	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)	5.3	5 (BDL)
15	Sodium,mg/L	5 (BDL)	6.4	10.8	274	360	48
16	Total Dissolved Solids,mg/L	25	33	51	1099	1483	348
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)	0.9
19	Potassium,mg/L	2	3.2	3.6	105	92	36
20	Total Coliform,cfu/100ml	310	2100	1500	4800	41000	94000
21	Faecal Coliform,cfu/100ml	210	1700	1100	2600	22000	70000
22	SAR	0.7	0.8	1.2	9.8	9.7	2.0


 ASSISTANT ENVIRONMENTAL SCIENTIST

ANALYSIS REPORT OF RIVERS INCLUDED IN THE LIST OF PRS-2022 FOR THE MONTH OF MARCH 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	29	29	28	30	29	29	28
2	Dissolved Oxygen, mg/l	7.2	7.1	7.8	0.3	6.8	5.8	7.6
3	pH	6.5	6.6	6.4	6.9	6.6	6	6.6
4	Conductivity, µmhos/cm	219	80	52	524	186	129	77
5	BOD, mg/l	1.8	1.1	1.8	24	1.5	1.2	1 (BDL)
6	Nitrate-N, mg/l	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	18	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)
7	Turbidity, NTU	1.8	1 (BDL)	1 (BDL)	4.1	1 (BDL)	1 (BDL)	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	32	32	20(BDL)	112	44	36	32
10	Chloride, mg/l	48	20	12	62	24	24	16
11	COD, mg/l	5 (BDL)	5 (BDL)	5 (BDL)	104	5 (BDL)	5 (BDL)	5(BDL)
12	TKN, mg/l	1.5 (BDL)	1.5 (BDL)	1.5 (BDL)	31	1.5 (BDL)	1.5 (BDL)	1.5 (BDL)
13	Ammoniacal-N, mg/l	0.4 (BDL)	0.4 (BDL)	0.4 (BDL)	10.3	0.4 (BDL)	0.4 (BDL)	0.4 (BDL)
14	Hardness as CaCO ₃ , mg/l	18	20	12	108	32	20	24
15	Calcium as CaCO ₃ , mg/l	12	12	8	88	28	12	16
16	Magnesium as CaCO ₃ , mg/l	6	8	4 (BDL)	20	4 (BDL)	8	8
17	Sulphate, mg/l	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)
18	Calcium (Ca ²⁺), mg/l	4.8	4.8	3.21	35.3	11.2	4.8	6.4
19	Magnesium (Mg ²⁺), mg/l	1.5	1.9	1.0	4.9	1.0	1.9	1.9
20	Sodium, mg/l	28	13.5	6.4	48	16	17.2	10.2
21	Total Dissolved Solids, mg/l	122	66	33	348	102	81	60
22	Total Fixed Solids, mg/l	78	36	17	147	54	42	37
23	Total Suspended Solids, mg/l	17	12	10	82	28	14	20
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)	0.9	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)
26	Potassium, mg/l	14	5.2	3.2	36	7.2	5.3	4
27	Fluoride, mg/l	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.6	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)
28	Total Coliform, MPN/100 ml	2700	3100	2100	94000	2600	2400	920
29	Fecal Coliform, MPN/100 ml	1700	1700	1700	70000	1700	1700	350
30	Fecal Streptococcus, MPN/100 ml	1.8 (BDL)	1.8 (BDL)	1.8 (BDL)	30	1.8 (BDL)	1.8 (BDL)	1.8 (BDL)
31	% SODIUM	62.9	52.4	46.4	41.2	45.8	58.3	43.2
32	SAR	2.9	1.3	0.8	2	1.2	1.7	0.9

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

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		Kadapra Grama Panchayat id totally open defection free. All the sewage generated in the households and other places and inistutions have 100% treatment of sewage-situ
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		Niranam Gramapanchayat is an upper Kuttanad area , so no such dry land suitable for solid waste treatment plant is available . MCF construction completed .13 mini MCF implimentedc in all wards . Necessary instruction are given to all offices and institution to strictly comply with the green protocol and is regularly monitored.

5	<p>Chief Secretaries may set up appropriate monitoring mechanism at state level</p> <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	<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 		

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</p>	<p>Kadapra Grama Panchayat id totally open defection free. All the sewage generated in the households and other places and inistutions have 100% treatment of sewage-situ</p> <p>No STP in Mannar Panchayath</p> <p>NO CEPT & ETP in Mannar Panchayath</p> <p>Plastic waste is collected by HarithaKarma Sena</p>
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	<p>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 flood 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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		Kadapra Panchayath		The Panchayat has resloved to identify all polluting invloved in pollution of river resources and iniation of penal against them	The Panchayat has resloved to identify all polluting invloved in pollution of river resources and iniation of penal against them		
C	Establishment of Material Collection Facility	Mannar	31.03.2021	Roofing completed	Electrification-sent to TS	88%	12%

		Niranam		-	-		
		Kadapra Panchayath		Material Collection Facility id fully funcational in Kadapra Grama Panchayat	Material Collection Facility id fully funcational in Kadapra Grama Panchayat		
C	Resource Recovery Facility	Mannar	31.03.2021	NO RRF IN PANCHAYATH	NO RRF IN PANCHAYATH	NA	NA

		Niranam		-	-		
		Kadapa		Resource Recovery Facility due to non-availability of space	Resource Recovery Facility due to non-availability of space		
C	Installing household and community level solid waste management units	Mannar Panchayat	31.03.2021	PLASTIC WASTE COLLECTION	PLASTIC WASTE COLLECTION		
C	Door to door collection and transportation of municipal solid waste	Mannar Panchayat	31.03.2021	72%	75.5	75.5	24.5

C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Parumala Town	Kadapra Panchayat	31.12.2020	The Panchayat considered that sewage treatment plants are currently not need with in Panchayat area around Parumala	The Panchayat considered that sewage treatment plants are currently not need with in Panchayat area around Parumala		
C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Mannar Town	Mannar Panchayat	31.12.2020	All house hold toilets have individual septic tank and no outlets to pamba river	All house hold toilets have individual septic tank and no outlets to pamba river		
C	Construction of compound wall with fencing	Irrigation department	31.03.2021	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government		
C	Removing light jungle and muddies from river courses	Irrigation department	31.03.2021	Detailed project report for the Holistic rejuvenation of the	Detailed project report for the Holistic rejuvenation of		

				reaches is prepared and submitted to Government	the reaches is prepared and submitted to Government		
C	Electrical-Light arrangements and Surveillance cameras	Irrigation department	31.03.2021	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government		
C	Regualting activites in flood plain zone, protection and management of flood plain zone	Irrigation department	31.03.2021	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government		
	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	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government		

D (b)	Irrigation practices	Irrigation department	30.04.2020				
E	Awareness programmes for sections of public	Kerala State Pollution Control Board	31.05.2020				
C	Management of municipal, plastic, hazardous, biomedical and electrical waste	LSGD	31.03.2021				Plastic is collected by harithakar masena every month & e-waste once in an year

ACTION BY GROUND WATER DEPARTMENT

Sl. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Progress in the month of February 2025	Progress in the month of MARCH 2025	% works completed	Details of works remaining
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1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	DLEC meeting convened for considering 2 number of proposals (1 renewal, 1 New) The proposals shall be recommended to SGWA for getting Final NOC shortly	NOC hasnot been issued to industries for Ground Water extraction during March 2025	Demand based	<p>1.As per the GEC estimation all the blocks in the District has been categorized as SAFE.</p> <p>2.Provisions of GW (control &Regulation) Act 2002 is implementing strictly for regulating extraction of GW resource in the district</p>
2	B(ii)	Ground water recharging / rain water harvesting	Pond rejuvenation work at Thevearkunnel Kulam (Pandalam Thekkekkara Grama Panchayath) completed & Parapetty Valiyakulam (Pandalam Thekkekkara Grama Panchayath) Pond rejuvenation work ongoing.	Pond rejuvenation work at ParapettyValiyakulam (PandalamThekkekkara Grama Panchayath) work ongoing.	Demand based	<p>All the blocks in the district is categorized as SAFE as per GEC estimation.</p> <p>Kadapra-Niranam Area is not feasible for Ground Water Recharge. However, GW recharging programme is taken up in some pockets in the midland area</p>

						including Manimala basin. Where seasonal GW level fluctuation is noticed.
3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps	Groundwater sample collection during the month of November 2024 for the monitoring wells for General & Iron analysis (borewells and open wells) collected and sent to Analytical Lab Thiruvananthapuram for chemical analysis. General & Iron samples for selected well (15 Nos) collected from February 2025 and sent to laboratory.	Groundwater sample collection during the month of November 2024 for the monitoring wells for General & Iron analysis (borewells and open wells) collected and sent to Analytical Lab Thiruvananthapuram for chemical analysis. General & Iron samples for selected well (15 Nos) of the District collected from February 2025 and sent to laboratory.	Periodical assessment (Regular programme) Chemical analysis result of groundwater samples received from Analytical Lab, Trivandrum upto December 2023	(i) Maintaining a network of observation wells in various hydrogeomorphic units throughout the district from which water level and water samples have been collected periodically and analysed. (ii) generally groundwater quality is good and potable
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices	As per Building Rule (KPBR) Borewell/ tube well construction is regulated in the district by insisting permit of	As per Building Rule (KPBR) Borewell/ tube well construction is regulated in the district by insisting permit of	Borewell/ tube well construction is regulated in the district by insisting permit of local	i) Borewell/ tube well construction is regulated in the district by insisting permit of local bodies

			<p>local bodies based on the clearance from GWD.</p> <p>ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose</p>	<p>local bodies based on the clearance from GWD.</p> <p>ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.</p>	<p>bodies based on the clearance from GWD.</p> <p>ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.</p> <p>3 number of Mass Awareness Programme on Ground Water Conservation & regulation completed.</p>	<p>based on the feasibility report of GWD.</p> <p>ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.</p> <p>iii) Awareness programmes organised to the public to adopt rainwater harvesting measures</p>
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Analysis Result of Drains Joining to Mannar-Thakazhi Stretch of Pamba River (MAR -2025)

Sl. No	Name of Drain	Parameters														
		pH			Electrical Conductivity(µS/cm)			BOD(mg/l)			TC(Nos/100ml)			FC		
	Months	JAN	FEB	MAR	JAN	FEB	MAR	JAN	FEB	MAR	JAN	FEB	MAR	JAN	FEB	MAR
1	Parumala Drain	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
2	MannarTown Drain	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3	Kuriyathkadavu Thodu	8.1	NIL	NIL	163.2	NIL	NIL	2.8	NIL	NIL	2200	NIL	NIL	1600	NIL	NIL
4	KaruvelilThodu	8.2	8.1	6.97	44.43	93.97	71.32	0.4	0.83	0.96	1300	1400	6000	600	400	4800
5	Nochithodu	7.9	8.1	6.93	105.5	106.2	82.05	1	2	0.36	1800	1400	6200	1000	800	1000
6	Pattaparambil Thodu	8.1	7.6	6.79	195.1	125.3	304	0.1	2	0.033	600	800	5200	400	400	2400
7	Kappiyarissery Thodu	8.2	8.3	6.5	164.1	85.43	136.8	0.8	0.4	1.033	400	2000	3800	200	1000	3000
8	KombankeryThodu	8.3	7.8	6.65	157.5	231.9	895.5	4.6	0.8	1.1	2000	800	2400	1400	400	1600
9	Perackalthodu	7.9	9	6.53	160	958	3159	3.6	3.5	0.3	2600	3600	800	1800	1600	200
10	Erathodu	7.9	8.1	7.31	150.9	206.5	58.47	0.6	0.2	0.23	1400	3200	3800	600	1400	2400
11	Kolarayaru	8.1	7.9	6.76	170.2	39.43	493.6	0.1	0.4	0.36	2000	600	2800	800	200	1480

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	<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</p>	<p>21.12.2019</p> <p>2020-2021</p> <p>2019-2020</p> <p>2020-2021</p> <p>2020-2021</p>	<p>Drains contributing to river pollution were identified. The drains are seasonal and water quality is above the require limit, no in situ.</p> <p>Proposal for setting up an FSTP by Chengannur municipality is initiated.</p> <p>Since the area does not contain any industry no requirement of any CETP, this action. Plan revised.</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>Water quality analysis result of the stretch up to DECEMBER 2023 is enclosed.</p> <p>Awareness campaigns initiated.</p>
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ACTION PLAN FOR RIVER PAMBA, KERALA

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of Jan 2025	Progress in the month of Feb2025	Progress in the month of Mar2025	% works completed	Details of works remaining
A(a)	Monitoring of river water quality	Kerala State Pollution Control Board	Continuing project				100%	NIL
A(b)	Rendering Plant at Eraviperoor or Thiruvalla	Eraviperoor/ Thiruvalla local body	31.03.2021				0%	Work to be initiated
C(ii)	Fencing of bridges, desilting, dredging and protection works, surveillance cameras at vantage points	Irrigation department	31.03.2021				0%	Work to be initiated
C	Preventing illegal discharge of septage and other waste water into the river. Formation of River Protection Group	Panchayath, Police , KSPCB	31.05.2020				0%	Work pending due to COVID pandemic
C	Greenery development Plantation on both sides of the river, setting up biodiversity parks in flood plains and removing encroachment	Irrigation department in association with panchayath	31.03.2021				0%	Yet to be initiated
C(b)(ii)	Green Protocol implementation in all offices, institution & public functions	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara,	31.03.2020				100%	0

		Kuttoorpanchayaths						
D(a)	Issues relating to E-flow, maintaining minimum environmental flow of river (by having watershed management provisions)	Irrigation department, Hydrographic survey department	31.03.2021					Work to be initiated
C(ii)	Establishment of decentralized solid waste treatment facilities	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoorpanchayaths	31.12.2020				100%	0
C	Installing household & community level solid and domestic sewage waste management	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoorpanchayaths	31.12.2020				NA	NA
C	Door to door collection of solid waste & Material Collection Facilities (MCF) & Resource Revcovery Facilities (RRF)	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoorpanchayaths	31.12.2020				NA	NA

ACTION BY GROUND WATER DEPARTMENT

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

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


SI NO	BOTTLE NO.	Name of Drains	PH	BOD	TC	FC
1	TK1	Panayampalathodu	7.28	0.36	4000	2000
2	TK2	PadathupalamThodu	NIL	NIL	NIL	NIL
3	TK3	Thottappuzha	7.39	1.1	6400	2000
4	TK4	Kuttapuzha under Kattodubridge	7.25	1.56	2000	1200
5	TK5	Kadavumbara	7.28	0.36	4800	2800
6	TK6	Drain under Varappalam Bridge	NIL	NIL	NIL	NIL
7	TK7	Drain under kallupalam Bridge	NIL	NIL	NIL	NIL
8	TK8	Komalamthodu	7.15	0.63	2200	1200
9	TK9	Vennikulam Valiyathodu	7.22	0.96	4400	1100
10	TK10	Paduthodu	NIL	NIL	NIL	NIL
11	TK11	Mallappally Valiyathodu	NIL	NIL	NIL	NIL

WATER QUALITY DATA OF POLLUTED RIVER STRETCHES MARCH-2025

DISTRICT OFFICE, PATHANAMTHITTA

Date of Sampling: 4.03.2025

Sl. No	PARAMETERS	THAKZHY	EDATHUA	MANNAR
1	Temperature, °C	31	33	31
2	pH	7.2	7.2	6.3
3	Conductivity, µmhos/cm	2234	273	99
4	Turbidity, NTU	1.5	1.2	1.3
5	Phenolphthalein Alkalinity, as CaCO ₃	Nil	Nil	Nil
6	Total Alkalinity, as CaCO ₃	20	22	26
7	Chloride, mg/l	480	28	15
8	COD, mg/l	6.6	7.2	6
9	TKN, mg/l	NIL	NIL	NIL
10	Ammoniacal-N, mg/l	BDL	BDL	BDL
11	Hardness, as CaCO ₃ mg/l	192	40	24
12	Calcium, as CaCO ₃ mg/l	74	28	16
13	Magnesium as CaCO ₃ , mg/l	118	12	8
14	Sulphate, mg/l	14	9.2	5.3
15	Sodium, mg/l	294	15.5	8.1
16	Total Dissolved Solids, mg/l	1252	156	72
17	Total Fixed Solids, mg/l	420	62	28
18	Total Suspended Solids, mg/l	600	85	38
19	Phosphate, mg/l	BDL	BDL	BDL
20	Boron, mg/l	BDL	BDL	BDL
21	Potassium, mg/l	58	8.1	2.8
22	BOD, mg/l	2.1	3.3	2
23	Fluoride, mg/l	BDL	BDL	BDL
24	Dissolved Oxygen, mg/l	5.7	5.2	4.67
25	Nitrate-N, mg/l	21	10.1	2.1
26	Total Coliform, CFU/100 ml	3000	9000	6000
27	Faecal Coliform, CFU/100 ml	80	4000	300
28	SAR	9.2	1.1	0.7
29	% of sodium	70.6	40.1	39
30	Faecal Strepto Coccus, CFU/100 ml	Nil	Nil	Nil


 10/4/2025



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

Sampling Date: 4.03.2025

Sl. No	PARAMETERS	ITTINAYARKKADAVU BRIDGE KUTTAMPEROOR	KOTTAKAL KADAVU BRIDGE KORATTIKADAVU	PARUMALA BRIDGE	MANNAR BRIDGE
1	Temp. (°C)	31	30	31	31
2	pH	7	6.6	6.6	6.3
3	Conductivity (µS/cm)	87	65	197	99
4	DO (mg/L)	5.7	5.3	4.93	4.67
5	BOD (mg/L)	2.13	1.8	2	1.9
6	COD (mg/L)	4.7	3	5	4.3
7	TDS (mg/L)	49	37	120	55
8	TC (CFU/100ml)	540	620	1180	6000
9	FC (CFU/100ml)	520	600	140	300
10	FSC(CFU/100ml)	NIL	Nil	Nil	Nil


10/4/2025

OFFICIAL
STAMP

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

Serial Number	Activity	Implementing agency	Timeline	Progress in the month Of December 2024	Progress in the month Of January 2025	Progress in the month Of February 2025	% works completed	Details of works remaining
(b)	Augmentation and Revamping of existing STP at near Adwaitha Ashramam and to increase the capacity of STP so as to treat more sewage generated in the municipality	Aluva Municipality	Dec 2019	It was reported that the mechanical works of the STP related to the renovation are yet to be completed and the electrical work and civil work are almost completed. As per the inspection of the STP by the municipality officer, it was found that new Filter, Clarifier and aerator need to be installed. Once the tender process for the mechanical work is completed, the STP can be made operational within 2 months. The capacity of the Advaita Ashram STP is 300 KLD. This is not enough to completely treat the sewage generated in the city. 1 acre of land has been requested from the Irrigation Department to establish a new STP (1.72 MLD) in the Thottakkattukara area. The KWA Estimate has been prepared for this despite the allocation of funds of	The committee observed that there was no time-bound progress in the renovation of STP at Advaita Ashram. The entire mechanical machinery of STP needs to be replaced in connection with the renovation. Estimate has been recast. CEE OD Sanction needs to be given. Electrical work and civil work are almost completed. Steps will be taken to obtain the consent of STP from PCB.	The committee observed that there was no time-bound progress in the renovation of STP at Advaita Ashram. The entire mechanical machinery of STP needs to be replaced in connection with the renovation. Estimate has been recast. CEE OD Sanction needs to be given. Electrical work and civil work are almost completed. Steps will be taken to obtain the consent of STP from PCB		

				Rs. 118 crore from the Suchitha Mission. A meeting was held under the chairmanship of the Collector to get the land. It needs to be obtained.				
(b)	Augmentation and Revamping of existing STP at Aluva Market and to increase the capacity of STP so as to treat more sewage generated in the municipality	Aluva Municipality	2021	received administrative approval for the reconstruction of Aluva General Market for Rs. 48 crore under PMSSY, and DPR has been prepared. The reconstruction of Market includes a high-capacity ETP. Since the high-capacity ETP is being established, the proposal for a low-capacity ETP proposed only for the fish market will be discarded. An application has been submitted for the Pollution Control Board's Consent to Establish for the construction work of the market. The work will be completed within one year.	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, 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.	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, 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.		
(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.	A special squad has been formed for inspection. The outlets coming into the streams and Periyar are being inspected and fines are being collected.		
(b)	Identification of the establishments/ commercial	Aluva Municipality, KSPCB	2020	A special squad has been formed for inspection. The outlets coming into the streams and Periyar are being inspected and fines are being	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	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		

	complexes/flats/houses/hotels etc who is discharging the sewage to the public drain and to collect fine based on polluter pay principle			collected.	being collected.	being collected.		
(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 the 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 DPR Letter of Intent for inviting the 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 DPR Letter of Intent for inviting the 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.		
(b)	Procurement of sewer cleaning machines and equipment maintenance	Aluva Municipality	March 2020	The cleaning of the canals is being carried out every day. JCB, Hitachi etc. are being used on an annual contract basis. Equipment for cleaning the canals has been purchased.	The clearing operations of the forests are being carried out every day. JCB, Hitachi etc. are being used on an annual contract basis. Equipment for clearing the forests has been purchased.	The clearing operations of the forests are being carried out every day. JCB, Hitachi etc. are being used on an annual contract basis. Equipment for clearing the forests has been purchased.	100	
	Installation of cameras at the waste dumping	Aluva Municipality	2020	As part of monitoring the dumping sites (places where waste is deposited), 66 cameras	As part of monitoring dumping sites (places where waste is dumped), 66 cameras have been installed. All are	As part of monitoring dumping sites (places where waste is dumped), 66 cameras have been installed. All are		

	spots			have been installed. All are working. Rs. 15 lakh has been allocated for installing new cameras. They will be installed this financial year. Information regarding Fines collected:- Illegal Outlet: 3.1 lakhs Illegal Dumping: 1.4 lakhs Single use Plastic : 40,000 A joint inspection (discharging sewage) was conducted with PWD and a hotel was closed	functional. Rs. 15 lakh has been allocated for installing new cameras. They will be installed this financial year. Details of fines levied Septage Discharge: Rs.25,000/- Illegal Outlet: 3.4 lakh Illegal Dumping: 1.6 lakh Single use Plastic: Rs.60,000/-	functional. Rs. 15 lakh has been allocated for installing new cameras. They will be installed this financial year. Details of fines levied Septage Discharge: Rs.25,000/- Illegal Outlet: 3.4 lakh Illegal Dumping: 1.6 lakh Single use Plastic: Rs.60,000/-		
(b)	Construction of retaining wall with HDPE liner at Kalamassery dumping yard in order to prevent the leachate discharge from the yard to ThoombungalThodu	Kalamassery Municipality	Sept 2019	NA	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 trail run has started.	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 trail run has started.	1 0 0 %	
(ii)	Installation of plastic shredding unit	Kalamassery Municipality	June 2019	NA	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.	1 0 0 %	
(a)(iv)	Constitution of squads for night surveillance for finding the	Kalamassery Municipality, Police department	2020	NAD not provided CCTV. Night squad fine Rs.2171940	A squad has been formed and is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It	A squad has been formed and is constantly monitoring. Those who dump waste are being identified using the cameras available to the municipality. It	N A	

	unauthorized dumping of sewage at NAD wet lands Kalamassery				is not possible to install cameras on NAD roads as NAD has control over them.	is not possible to install cameras on NAD roads as NAD has control over them.		
(b)	Installation of common STP for Kalamassery Municipality and ETP at Municipal Market. Obtain a consent from Pollution Control Board	Kalamassery Municipality	December 2019	75 cents land identified at North Kalamassery for sewage and septage treatment plant. New ETP will be installed after the reconstruction of market according to the capacity needed for the same SSTP (Septage & sewage treatment plant of 2.6 mld work will started after biomining contract was awarded to SMS limited for 9.02 cr. The work will start this month & planning to complete the works within 6 months. New MCF of 8000 square feet will be functional next month for non bio waste management. New project were submit in DPC for construction of STP at Kalamassery Townhall & Kanagarappady Mini Townhall	The existing ETP is functioning in the market. During the market renovation, the ETP will be demolished and a new one will be constructed. A detailed report will be submitted. After completion of biomining, an STP will be established at the site of the existing dumping yard. The proposal for the new STP has been sent to the DPC.	The existing ETP is functioning in the market. During the market renovation, the ETP will be demolished and a new one will be constructed. A detailed report will be submitted. After completion of biomining, an STP will be established at the site of the existing dumping yard. The proposal for the new STP has been sent to the DPC.	N A	
(a)(iv)	Monitoring and surveillance of industries in Kalamassery Industrial Estate in order to prevent unauthorized discharges to	KSPCB	2019					

	Muttar River							
(ii)	Installation of modern abattoirs including poultry and meat rendering plants.	Kalamasser y Municipality, Industries Department (for land allotment)	2021	A letter dated 03.10.22 has forwarded to the govt. for allotment of land for the construction of modern abattoirs	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 sewage to the public drain	Kalamassery Municipality	2020	Inspection conducted on 24/09/2020, 22/07/2021, 13/08/2021, 01/01/2022, 10/01/2022, 11/01/2022, 12/01/2022 & notice issued to 49 persons. 12 persons cleared violations. Second notice issued to 2 persons and rectified the defect. Inspection conducted on 28.07.2022, fresh notice issued to 5 persons, 1 person cleared violation. Inspection conducted on 15.09.2022, fresh notice issued to 1 person . Inspection conducted on 29.12.2022, 5 persons cleared violation . Inspection conducted on 16.02.2023, 1 person fresh notice issued. 7 outlet of houses, 3 outlet of establishment in may 2023	So far Rs. 22,36940/- has been collected as part of the fine for dumping waste and discharging sewage. Waste dumping fine : December- Rs. 40,000/- November 45,000/-	So far Rs. 22,36940/- has been collected as part of the fine for dumping waste and discharging sewage. Waste dumping fine : December- Rs. 40,000/- November 45,000/-	N A	
	Installation of cameras at the waste dumping spots	Kalamassery Municipality	2020	Camera installed on 10 locations. 2 portable (mobile) camera has installed for identifying waste dumping spot. Rs 36560 /- levied till date	84 cameras have been installed, 2 each in 42 wards. Work is underway to get visuals. Night connection has not been received. In this regard, Asianet will be involved and net connection will be established by February 15.	84 cameras have been installed, 2 each in 42 wards. Work is underway to get visuals. Night connection has not been received. In this regard, Asianet will be involved and net connection will be established by February 15.		

(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 conducted from time to time. Dumping of garbage was not observed during the inspection period.	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 and the problem has been resolved. A notice has been issued to 4 institutions to construct soak pits after inspecting the sewage from the places where migrant workers live and catering units near the bridge. A meeting will be called to ensure that the catering units have PCB licenses.	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 and the problem has been resolved. A notice has been issued to 4 institutions to construct soak pits after inspecting the sewage from the places where migrant workers live and catering units near the bridge. A meeting will be called to ensure that the catering units have PCB licenses.		
	Installation of cameras at the waste dumping spots	Eloor Municipality	2020	Keltron cameras have been installed in the vicinity of the aerobic bin near the HIL company and the bin near Manjummal Arattukadavu. Also, in the plan 2023-24, money has been allocated for installing cameras in various areas of the municipality and as per 2 projects (Rs. 40,00,000/-) 84 cameras have been installed.	84 cameras have been installed. All are working. Fines are being collected.	84 cameras have been installed. All are working. Fines are being collected.		
(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 consisting of Engineering & Health has been formed. 4 squads are conducting regular inspections. Desilting and water hyacinth removal work is underway. Night squad is conducting inspections. Special inspection is being conducted regarding septage. Details of fines collected SUP inspection- Rs. 10000. Garbage dumping - Rs. 1.95 lakh A total of 1.32 crore fines have been collected so far this financial year	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 details collected A fine of Rs. 5.54 lakhs was collected from 30/11/2024 to 15/01/2025.	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 details collected A fine of Rs. 5.54 lakhs was collected from 30/11/2024 to 15/01/2025.		
	issuing notice to the defaulters	Kochi Municipal Corporation	4 months	Notices have been sent to 5 establishments for discharging sewage. Proper inspections are being carried out at establishments near the river. 317 bottle booths have been installed.	Notices have been sent to 5 establishments for discharging sewage. Regular inspections are being conducted at establishments near the river. 317 boat booths have been set up.	Notices have been sent to 5 establishments for discharging sewage. Regular inspections are being conducted at establishments near the river. 317 boat booths have been set up.		
(a)(iv)	Periodical inspection in the flats, hotels, shops located along the river	Kochi Municipal Corporation	periodical	Inspections are being carried out regularly in establishments near the river. 317 boat booths have been set up. Container (AMC) has been set up in 74 wards. Fines of around 88 lakhs have been collected till mid-March of this financial year	Notices have been sent to 5 establishments for discharging sewage. Regular inspections are being conducted at establishments near the river. 317 bottle booths have been set up.	Notices have been sent to 5 establishments for discharging sewage. Regular inspections are being conducted at establishments near the river. 317 bottle booths have been set up.		
(b)	Identification of natural drains/thodu	Irrigation department	2 years	<u>Minor irrigation</u> 23 drains have been cleaned in Eloor Municipality. It was a 2 crore	<u>Minor Irrigation (Did not participate.)</u> 23 canals have been cleaned in Eloor Municipality (2023-2024). This was a	<u>Minor Irrigation (Did not participate.)</u> 23 canals have been cleaned in Eloor Municipality (2023-2024). This was a		

	reaching river Periyar and cleaning of weeds, grasses etc			<p>project . Agreement of Kunnukara and Alangad gram panchayat and Karumallur has been submitted. Tender procedures are completed, agreement is implemented and started works. Valiachal canal works have been completed, The Eerazhchal site has been handed over, and work is currently in progress.</p> <p><u>Major irrigation</u></p> <p>1. Kuthuthodu (IRR/IA/EST/8495/2022_5_8_7) Rs. 74.40 lakh</p> <p>2.Edathodu (IRR/IA/EST/8495/2022_5_11_10) Rs. 9/- lakh. These works have not been approved. Works of Valiyachal thod completed.</p>	<p>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.</p> <p><u>Major Irrigation</u></p> <p>Eerezhachal Punchathodu site has been handed over. As there are complaints from the residents regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation.</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>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.</p> <p><u>Major Irrigation</u></p> <p>Eerezhachal Punchathodu site has been handed over. As there are complaints from the residents regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation.</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>		
(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 for the year 2024-2025</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>		

(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	Periodically maintained for the minimum flow of water by operating the shutter properly at pathalam lock cum regulator	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.		
(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/ Stake holder 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/ Stake holder 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/ Stake holder 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		Completed the constructed roads and drainage works in the locality of Edayar which comes under the project of MSE-CDP and costed 9 crore. 6.54 crore rupees has been sanctioned to PWD for works to be completed	Road drainage works worth Rs. 9.47 crore have been completed in the Edayar Industrial Area under the MSE CDP project. In addition, out of the Rs. 34 lakh allocated to the Public Works Department for drainage works in the Edayar Industrial Area, 48% of the	Road drainage works worth Rs. 9.47 crore have been completed in the Edayar Industrial Area under the MSE CDP project. In addition, out of the Rs. 34 lakh allocated to the Public Works Department for drainage works in the Edayar Industrial Area, 48% of the		

				and construction of 34 lakh rupees drainage is under progress. 50% of work is completed. Process for the construction of internal road which worth Rs 6.20 crore is in progress. The work of 3 roads namely Seva Road, Sherin Highfab Road and Malaya Rub Road has been completed out of the allocation to Public Works Department. 3 pending out of which 30% completed Drainage upstream of Sunrise ISR is partially completed and hence not connected to main drainage. Work has not started. It was suggested in the committee meeting to speed up the construction of canal.	drainage construction has been completed. Out of the Rs. 6.20 crore allocated to the Public Works Department for maintenance and repair of internal roads, the work of 3 roads namely Sevana 100, Sherin High Fab Road and Malaya Rub Road has been completed. Work has started on 3 of them. Road work is progressing. The drainage work adjacent to Sunrise TSR is 90% complete. It will be completed by the end of February.	drainage construction has been completed. Out of the Rs. 6.20 crore allocated to the Public Works Department for maintenance and repair of internal roads, the work of 3 roads namely Sevana 100, Sherin High Fab Road and Malaya Rub Road has been completed. Work has started on 3 of them. Road work is progressing. The drainage work adjacent to Sunrise TSR is 90% complete. It will be completed by the end of February.		
(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/ Stake holder 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	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stake holder 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/ Stake holder 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."		

				any other liquid waste treatment project."				
	Installation of Night vision surveillance cameras at the River Bank side	KSPCB	2020	Installation Completed	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	Routine inspection is going on. Night Surveillance also carried out continuously	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	New water monitoring station has been set up at the Upstream side of the Pathalam bund. The online data of water monitoring is available in the office. Quality of water at upstream is satisfactory	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	1 0 0	
(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the	Kadungallur Panchayath	2020	Waste discharging units are been identifies. It has been suggested to check whether there are establishments dumping garbage in Onjithodu	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	5 0 %	

A(b)	Construction of walkway, ring roads etc at the Periyar River bank at industrial belt.	Irrigation department	4 years	FS has been obtained for the construction of surveillance road and dike wall along the industrial belt. Soil investigation work is complete..Survey work is pending	FS has been received for Soil Investigation work. Rs. 92,000/- has been deposited for survey work. Survey process has not started as surveyor has not come.	FS has been received for Soil Investigation work. Rs. 92,000/- has been deposited for survey work. Survey process has not started as surveyor has not come.		
C(i)	Fencing of the river banks along the stretches of waste disposal (Edamula stretch)	Cochin Municipal Corporation	1-2 years	work of fencing and beautification of Aryanpadam thodu is recommended to include in the year budget. The work of fencing along Meenchiraftodu in Division B-S has completed. DC-silting activities for the year 2024 was completed. The desilting works prior the monsoon for the year 2025-2026 have been started. Estimates were taken for 62 small drains. 64 big drains and 1 16 thodu in Kochi Municipal Corporation area. The projected cost of desilting for the year 2025-2026 is The estimates were	Fencing works have been included in the budget. Beautification works are being carried out using own funds. Almost everything has been completed. Work is underway to install about 300 cameras.	Fencing works have been included in the budget. Beautification works are being carried out using own funds. Almost everything has been completed. Work is underway to install about 300 cameras.		
C(ii)	Beautification of the river stretches (Edamula stretch)	Cochin Municipal Corporation	1-2 years					

				submitted for technical sanction.				
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ACTION BY GROUND WATER DEPARTMENT

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

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

STNCode	Sampling Date	Sampling Time	StnName	Type Of Water Body	Name Of Water Body	River Basin
17	15.03.2025	10:30	Periyar at Eloor	River	Periyar River	
1338	05.03.2025	10:20	Periyar at SDP Aluva	River	Periyar River	
2334	07.03.2025	10:45	Periyar at Pathalam	River	Periyar River	
2335	07.03.2025	11:45	Periyar at Kalamassery	River	Periyar River	
3468	6.02.2025	10:35	Periyar at KWA Aluva	River	Periyar River	
2337	04.03.2025	10:20	Kadambrayar At Brahmapuram	River	Kadambrayar River	
2338	04.03.2025	10:00	Kadambrayar At Manackakadavu	River	Kadambrayar River	
1573	04.03.2025	10:40	Chithrapuzha At Irumpanam	River	Chithrapuzha River	
1154	05.03.2025	12:30	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	29	29	30	30	29	29	28	30
2	Dissolved Oxygen, mg/l	5.6	6.2	6.0	5.0	6.3	4.2	3.5	4.3	7.6
3	pH	8.5	7.5	7.5	8.4	8.3	8.5	8.4	8.3	7.5
4	Conductivity, µmhos/cm	6460	86	6500	60	47	7000	95	13000	301
5	BOD, mg/l	2.1	1.4	3.2	0.5	0.3	3	2	2.8	1.5
6	Nitrate-N, mg/l	BDL	BDL	BDL	BDL	BDL	0.1	BDL	0.3	0.2
7	Turbidity, NTU	1.7	0.0	0.1	1	0	1.8	0.5	1.6	0.8
8	Phenolphthalein alkalinity	BDL	BDL	BDL	2.9	7.3	12.2	10.5	8.1	BDL
9	Total Alkalinity, as CaCO ₃	29	14	22	16	14	22	20	19	33
10	Chloride, mg/l	2096	36.5	2146	6.5	6.5	2345	13.5	7200	60
11	COD, mg/l	6.4	4.8	9.6	1.6	1.6	8.8	6.4	8	4.8
12	TKN, mg/l	BDL	BDL	BDL	BDL	BDL	5.9	BDL	4.1	0.7
13	Ammoniacal-N, mg/l	BDL	BDL	BDL	BDL	BDL	5.8	0	3.9	0.5
14	Total Hardness, as CaCO ₃ mg/l	1200	12	1000	15	11	1000	18	600	68
15	Calcium, as CaCO ₃ mg/l	600	8	400	10	7	200	14	400	64
16	Magnesium as CaCO ₃ , mg/l	600	4	600	5	4	800	4	200	4
17	Sulphate, mg/l	225	0	118	0	0	158	2	241	5
18	Sodium, mg/l	1100	23.7	1280	4.2	4.2	1453	7.2	4000	35
19	Total Dissolved Solids, mg/l	4580	76	3896	34	30	4541	53	11680	185
20	Total Fixed Solids, mg/l	3664	61	3117	27	24	3633	42	9344	148
21	Total Suspended Solids, mg/l	10	3	9	7	3	10	5	14	9
22	Phosphate, mg/l	0.03	0.12	0.13	0.2	0.12	31.5	0.01	4.9	0
23	Boron, mg/l	0.32	BDL	0.4	0.01	BDL	0.4	BDL	0.4	BDL
24	Potassium, mg/l	7	1	9.80	1	1	44.2	1.7	14.3	4
25	Fluoride, mg/l	0.06	0.01	0.08	0.01	0.01	0.95	0.02	1	0.01
26	Total Coliform, MPN/100 ml	3800	1200	240	3900	1700	34000	7000	7900	3800
27	Feacal Coliform, MPN/100 ml	1500	630	140	2100	790	20000	4300	4300	2000
28	Feacal Streptococci, MPN/100ml	170	24	100	1400	BDL	1200	630	400	330

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

Sl. No	Parameter	Unit	05.2.2025	25.2.2025
1	Temperature	°c		
2	pH			
3	Conductivity	µS/cm		
4	TDS	NTU		
5	Turbidity	mg/L	*	*
6	Colour	"		
7	SS	"		
8	Chlorides	"		
9	Hardness	"		
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 -FEBRUARY 2025
Sampling point: PATHALAM BRIDGE

Sl. No	Parameter	Unit	05.02.2025	25.02.2025
1	Temperature	°c		
2	pH			
3	Conductivity	µS/cm		
4	TDS	NTU		
5	Turbidity	mg/L	*	*
6	Colour	"		
7	SS	"		
8	Chlorides	"		
9	Hardness	"		
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 -FEBRUARY 2025
Sampling point: PUTHALAM KADAVU

Sl. No	Parameter	Unit	05.02.2025	25.02.2025
1	Temperature	°c		
2	pH			
3	Conductivity	µS/cm		
4	TDS	NTU		
5	Turbidity	mg/L	*	*
6	Colour	"		
7	SS	"		
8	Chlorides	"		
9	Hardness	"		
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 -FEBRUARY 2025
Sampling point: PATHALAM BUND U/S

Sl. No	Parameter	Unit	05.02.2025	25.02.2025
1	Temperature	°c		
2	pH			
3	Conductivity	µS/cm		
4	TDS	NTU		
5	Turbidity	mg/L	*	*
6	Colour	"		
7	SS	"		
8	Chlorides	"		
9	Hardness	"		
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 -FEBRUARY 2025
Sampling point: PATHALAM BUND D/S

Sl. No	Parameter	Unit	05.02.2025	25.02.2025
1	Temperature	°c		
2	pH			
3	Conductivity	µS/cm		
4	TDS	NTU		
5	Turbidity	mg/L	*	*
6	Colour	"		
7	SS	"		
8	Chlorides	"		
9	Hardness	"		
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 -FEBRUARY 2025
Sampling point: MANJUMMAL BUND

Sl. No	Parameter	Unit	05.02.2025	25.02.2025
1	Temperature	°c		
2	pH			
3	Conductivity	µS/cm		
4	TDS	NTU		
5	Turbidity	mg/L	*	*
6	Colour	"		
7	SS	"		
8	Chlorides	"		
9	Hardness	"		
10	D.O.	"		
11	COD	"		
12	Calcium	"	#v	
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 -FEBRUARY 2025
Sampling point: ALUVA - MANAPPURAM

Sl. No	Parameter	Unit	05.02.2025	25.02.2025
1	Temperature	°c		
2	pH			
3	Conductivity	µS/cm		
4	TDS	NTU		
5	Turbidity	mg/L	*	*
6	Colour	"		
7	SS	"		
8	Chlorides	"		
9	Hardness	"		
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

**POLLUTED RIVER STRETCH MONITORING PROGRAM
(MARCH 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)	3/5/2025												
		1	1	:	1	0								
3	Weather	Cloudy			Clear ✓			Windy			Raining			
4	Approximate depth of main stream	< 50 cm			50 – 100 cm ✓			>100 cm			Flood			
5	Color & Intensity	Clear ✓			Turbid			Green			Brown			
		1 = Light			2 = Moderate ✓			3 = High						
6	Odour	None ✓			Fishy			H ₂ S			Other			
7	Floating Matter	Floating Algae			Floating sludge			Oil & Grease			Water Hyacinth			
8	Visible effluent discharges in proximity	Industrial			Municipal sewage			None ✓						
9	Human activities around the station	Cattle wading ✓			Tourism spot			Fishing		Bathing ✓		Other		
10	Location details	U/s of town or industrial area			D/s of town or industrial area ✓			Pilgrim center/Bathing Ghat/Water intake		None				
11	Flow rate	31 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	30
2	Dissolved Oxygen, mg/l	5
3	pH	8
4	Conductivity, µmhos/cm	808
5	BOD, mg/l	3
6	Nitrate-N, mg/l	1
7	Turbidity, NTU	BDL
8	Phenolphthalein Alkalinity, as CaCO ₃ mg/l	BDL
9	Total Alkalinity, as CaCO ₃ mg/l	223
10	Chloride, mg/l	108
11	COD, mg/l	10
12	TKN, mg/l	0.01
13	Ammoniacal-N, mg/l	BDL
14	Hardness, as CaCO ₃ mg/l	254
15	Calcium, as CaCO ₃ mg/l	154
16	Magnesium as CaCO ₃ , mg/l	100
17	Sulphate, mg/l	35
18	Calcium (Ca ²⁺), mg/l	61.6
19	Magnesium (mg ²⁺), mg/l	24.3
20	Sodium, mg/l	63
21	Total Dissolved Solids, mg/l	460
22	Total Fixed Solids, mg/l	276
23	Total Suspended Solids, mg/l	BDL
24	Phosphate, mg/l	0.1
25	Boron, mg/l	BDL
26	Potassium, mg/l	14
27	Fluoride, mg/l	0.8
28	Total Coliform, MPN/100 ml	500
29	Fecal Coliform, MPN/100 ml	300
30	Fecal streptococci, MPN/100 ml	60
31	% Sodium	33.49
32	SAR	1.72

**POLLUTED RIVER STRETCH MONITORING PROGRAM
(MARCH 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)	3/5/2025											
		1	0	:	0	0							
3	Weather	Cloudy			Clear ✓			Windy			Raining		
4	Approximate depth of main stream	< 50 cm			50 – 100 cm			>100 cm✓			Flood		
5	Color & Intensity	Clear ✓			Turbid			Green			Brown		
		1 = Light			2 = Moderate ✓			3 = High					
6	Odour	None ✓			Fishy			H ₂ S			Other		
7	Floating Matter	Floating Algae			Floating sludge			Oil & Grease			Water Hyacinth ✓		
8	Visible effluent discharges in proximity	Industrial			Municipal sewage ✓			None					
9	Human activities around the station	Cattle wading ✓			Tourism spot			Fishing		Bathing ✓		Other	
10	Location details	U/s of town or industrial area ✓			D/s of town or industrial area			Pilgrim center/Bathing Ghat/Water intake			None		
11	Flow rate	21 m ³ /s											
12	Major polluting source	Industrial effluent			MSW ✓		PW		None		Other		
13	Uses of water in downstream	Irrigation			Drinking water source ✓			Fishing		Domestic			
		Organized water source			Cultivation		Bathing Ghat		Others				

Sl.No	Determinant	Value
1	Temperature, °C	29
2	Dissolved Oxygen, mg/l	7.2
3	pH	7.9
4	Conductivity, µmhos/cm	180
5	BOD, mg/l	3
6	Nitrate-N, mg/l	0.5
7	Turbidity, NTU	BDL
8	Phenolphthalein Alkalinity, as CaCO ₃ mg/l	BDL
9	Total Alkalinity, as CaCO ₃ mg/l	50
10	Chloride, mg/l	20
11	COD, mg/l	9
12	TKN, mg/l	0.008
13	Ammoniacal-N, mg/l	BDL
14	Hardness, as CaCO ₃ mg/l	62
15	Calcium, as CaCO ₃ mg/l	41
16	Magnesium as CaCO ₃ , mg/l	21
17	Sulphate, mg/l	11
18	Calcium (Ca ²⁺), mg/l	16.4
19	Magnesium (mg ²⁺), mg/l	5.1
20	Sodium, mg/l	12
21	Total Dissolved Solids, mg/l	105
22	Total Fixed Solids, mg/l	65
23	Total Suspended Solids, mg/l	BDL
24	Phosphate, mg/l	0.07
25	Boron, mg/l	BDL
26	Potassium, mg/l	2
27	Fluoride, mg/l	0.3
28	Total Coliform, MPN/100 ml	600
29	Fecal Coliform, MPN/100 ml	400
30	Fecal streptococci, MPN/100 ml	60
31	% Sodium	28.78
32	SAR	0.66

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	31/03/2025	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	31/03/2025	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	31/03/2024	
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	<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>31/03/2025</p> <p>31/03/2025</p> <p>31/03/2025</p> <p>31/03/2025</p> <p>31/03/2025</p> <p>31/03/2025</p> <p>31/03/2025</p>	<p>Already screen net placed to the both side of the Bridge and Periodic Inspection & Drainage Cleaning Doing</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>
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(vii) Ground water regulation		NA
(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

2. Malappuram Municipality - Short Term Solid & Liquid Waste Management Action Plan								
No	Activity	Implementing agency	Time line	Progress in the month of January 2025	Progress in the month of February 2025	Progress in the month of March 2025	% of works completed	Details of works remaining
1.1	Slaughter house and Poultry house	Malappuram Municipality	31/03/2025		Land Purchased and Fund Requested	Fund Requested	NA 100%	NA Continuous activities
1.2	Valiyathodu Cleaning - 8 Km length	Malappuram Municipality	Completed		Cleaned	Cleaned	50%	50%
1.3	Installation of screening net in the Valiyathode	Malappuram Municipality	Net Installed		Inspected	Inspected	100%	100%
1.4	Identification of polluting points in Kadalundi river & awareness	Malappuram Municipality	Completed		Awareness Campaign and	Inspection & Cleaning	NA	NA

	campaign - River walk(puzha nadatham – 15 km length)				River Walking Done	activities doing		
1.5	Sanitation facility and treatment of waste water in the markets - Treatment plant	Malappuram Municipality	31/03/2025		New Building Construction Process	New Building Construction Process		50%
1.6	The discharge of waste water from the surrounding houses to the Valiyathodu - Blocking of discharge of liquid waste	Malappuram Municipality	Completed		100%	Same	Same	100%
1.7	Identification of illegal outlets into storm water drains and fine imposed on such units.	Malappuram Municipality	Identified units rectified		Ongoing	Inspection continuing	Inspection continuing & action taken	NA
1.8	Biodegradable waste Bio bins – 176 Bucket compost – 269 Thumboormuzhi Aerobic bins - 4 Biogas plant -55	Malappuram Municipality	 March 2020 March 2020 March		 Completed Completed	 Completed Completed		 100% 100%

			2020 March 2020		Completed	Completed		100%
1.9	Non biodegradable waste MCF Plastic shredding and Bailing Echo Kiosk	Malappuram Municipality	31/03/2025 Dropped Completed functiond		DPR under preparation Unit Functioning		100%	
1.10	Identification and monitoring of illegal activities CC tv Network installation	Malappuram Municipality	31/03/2025		Under Processing	-	Nil	NA
2.Kerala State Pollution Control Board								

No .	Activity	Implementing agency	Time line	Progress in the month of January2025	Progress in the month of February2025	Progress in the month of March 2025	% works completed	Details of works remaining
2.1	River water quality Monitoring- Thirurangadi, Hajiyarpally National Water Quality Programme(NWMP)	KSPCB	Ongoing; Monthly frequency			Ongoing; Monthly frequency		
2.2	River water quality Monitoring - Thirurangadi, Kooriyad, Manikut, Hajiyarpally, Anakkayam, Oravambrum - State Water	KSPCB	Ongoing; Seasonal - Pre - monsoon, monsoon, post - monsoon			Ongoing; Monthly frequency		

	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; Monthly frequency		

3.Ground Water Department

No .	Activity	Implementing agency	Time line	Progress in the month of January2025	Progress in the month of February2025	Progress in the month of March 2025	% works completed	Details of works remaining
3.1 .	Ground Water resources and regulation of ground water extraction by industries particularly in	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		

	<p>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>			Ground Water Department	Ground Water Department	Ground Water Department		
3.2	Ground water recharging / rain water harvesting	Ground water Department		No action included in the	No action included in the	No action included in the		

	<p>(Earlier status : The average pre - monsoon groundwater level ranges from 7.59mbgl - 13.57 mbgl. Groundwater Department has implemented 3 no of roof top rain water recharging through recharge pit schemes in Vengara block.)</p>			<p>approved action plan to be performed by Ground Water Department</p>	<p>approved action plan to be performed by Ground Water Department</p>	<p>approved action plan to be performed by Ground Water Department</p>		
3.3	<p>Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps</p> <p>(Earlier status : Groundwater Department has 6 observation dug wells and 14 bore wells in the river stretch. (report attached) (Map No: 7 attached))</p>	Ground water Department		<p>No action included in the approved action plan to be performed by Ground Water Department</p>	<p>No action included in the approved action plan to be performed by Ground Water Department</p>	<p>No action included in the approved action plan to be performed by Ground Water Department</p>		

3.4	<p>For regulating use of ground water for irrigation purpose, adopting good irrigation practices (Earlier status : The total irrigation draft in the area ranges from 979.683 - 1857.49 ha.m.)</p>	<p>Ground water Department</p>		<p>No action included in the approved action plan to be performed by Ground Water Department</p>	<p>No action included in the approved action plan to be performed by Ground Water Department</p>	<p>No action included in the approved action plan to be performed by Ground Water Department</p>		
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**ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN KADALUNDY RIVER
MARCH 2025 ALONG WITH HAJIYARPALLY**

Name of point	PARAMETERS
Valiyangadi drain	FC fu/100 ml)
Valiyangadi bypass drain	80
Valiyathod drain	100
Hajiyarpally	100

NTIST

National Mission for Clean Ganga

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

RIVER TIRUR, MALAPPURAM

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

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>Last updated report submitted was on March 21, 2025</p> <p>(i) Identified 17 drains out of which 9 were additionally 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</p> <p>(ii) Tirur municipal Bus Stand STP-50 KLD –Working Condition. Inspection was conducted by pollution control board and STP sample collected and laboratory analysis has been done.</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 March 2025</p>
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<p>(vi) Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.</p> <p>(vii) Ground water regulation</p> <p>(viii) Adopting good irrigation practices,</p> <p>(ix) Protection and management of food plain Zones (FPZ),</p> <p>(x) Rain water harvesting,</p> <p>(xi) Maintaining minimum Environmental flow of river</p> <p>(xii) Plantation on both sides of the river</p> <p>(xiii) Setting up biodiversity parks on flood plains by removing encroachment</p>		<p>dumping. BMW are being disposed scientifically through 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 January 2025	Progress in the month of February 2025	Progress in the month of March 2025	% works completed	Details of works remaining
1.1.1	Strengthening the right side bund of Tirur-Ponnani puzha at Porur, ward no.I Tirur Municipality	Irrigation Department	6 Months	Work Completed	Work Completed	Work Completed	100%	Work Completed. Bill Paid (Rs 2984168/- including GST)
1.1.2	Cleaning and development of old Ponnani thodu at Thazhepalam	Irrigation Department	365 Days	0%	0%	0%	8%	More damages to the Apron and river bed has seen at site and work can't be continued using existing

								<p>original estimate. Also Cracks on girders and settlement of 4 piers towards right bank has seen on 18/11/2023. So the work can be continued only after addressing the present issues. So while preparing the estimate based on the study report from KERI Peechi, the solution for the new issues also has to be finalised. Meeting held on 29/11/2023 at the office of CE I&A in the presence of CE IDRB concluded</p>
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								<p>to conduct a detailed technical study by an expert team. A Technical committee has been formed as per order number ᄁ. ᄁ(ᄁᄁᄁᄁ) ᄁᄁ.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. Technical expert committee meeting</p>
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								report is awaiting for finalising the revise the estimate.
1.1.3	Repair and Rehabilitation of Koottayi Regulator cum Bridge across Thirur-Ponnani Puzha in Mangalam Grama panchayat in Malappuram Dist	Irrigation Department	6 Months	Work Completed	Work Completed	Work Completed	100%	Work Completed. Bill Paid (Rs 2984168/- including GST)

2. TIRUR MUNICIPALITY – SHORT TERM ACTION PLAN

No.	Activity	Implementing agency	Time line	Progress in the month of January 2025	Progress in the month of February 2025	Progress in the month of March 2025	% works completed	Details of works remaining
1.2.1	Provide septic tank for nearest houses	Tirur Municipality	Dec 2019			completed		
1.2.2	Establishment of Solid waste Treatment Plant ThumboorMozhi Model Aerobic Bin	Tirur Municipality	March 2020			completed		

1.2.3	Establishment of Non Degradable waste treatment Plant Resource Recovery facility Centre Plastic Shredding Unit Segregation shed	Tirur Municipality	March 2020			DPR under preparation		
1.2.4	Slaughtering House	Tirur Municipality	December 2020			Project tendered Agreement executed		
1.2.5	Fencing on Bridgeside Thalakkadathur Bridge	Tirur Municipality	December 2020			completed		
1.2.6	Installation of CCTV Camera near the river Bank Thalakkadathur Bridge	Tirur Municipality	May 2020					
1.2.7	Planting of Bamboo seedlings on the river bank (Thazhepalam)	Tirur Municipality	June 2020			Completed		
1.2.8	Renovation of Effluent treatment plant at fish Market AMC Granted ETP with Aeorobic System	Tirur Municipality Tirur Municipality	June 2019			Completed		
1.2.9	Setting up of STP at Private Bus stand	Tirur Municipality	June 2020			Completed		
1.2.10	Setting up of a new drain after demolishing the old one. The old one was the hub of the waste water outlet of the shops and other establishments. The proposed drain is constructing in the middle of the road so as to avoid intrusion of pipes from outside	Tirur Municipality	June 2020			Completed		

1.2.11	Identification of illegal outlets into storm water drains and fine shall be imposed on such units	Tirur Municipality					Fine imposing mechanism going on		
3. Cheriyamundam Grama panchayat									
No.	Activity	Implementing agency	Time line	Progress in the month of January 2025	Progress in the month of February 2025	Progress in the month of March 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 January 2025	Progress in the month of February 2025	Progress in the month of March 2025	% works completed	Details of works remaining	
1.4.1	River water quality Monitoring- Thalakkadathur National Water Quality Programme(NWMP)	KSPCB	Ongoing; Monthly frequency			Ongoing; Monthly frequency			

1.4.2	River water quality Monitoring State Water monitoring programme (SWMP)	KSPCB	Ongoing; Seasonal			Ongoing		
1.4.3	Inspection and effluent quality monitoring of the flats, Industrial units, Service stations, hospitals, auditorium, hotels in Municipal area		Ongoing; Interval; Red – 1 month, Orange- 3 months, Green- 6 months			Ongoing		

5.Ground Water Department

No.	Activity	Implementing agency	Time line	Progress in the month of January 2025	Progress in the month of February 2025	Progress in the month of March 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	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		

	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 hand pumps (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 agency	Time line	Progress in the month of January 2025	Progress in the month of February 2025	Progress in the month of March 2025	% works completed	Details of works remaining
1.6.1	Protection of Thirur Ponnani River	Thalakkad grama panchayath handover fund to District Panchayat	31.03.2020			Completed		
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 MARCH 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	6.8	4.5	1.0	4.2	400
2	Thazhepalam drain	7.0	3.2	1.6	3.1	60
3	Naduvilangadi drain (old ponnanihodu)				Dried	
4	Annassery drain				Dried	
5	Canal at CV Land				Dried	
6	Canal at Mangalam thuruth	7.7	4.3	2.8	4.2	120
7	Canal at Pullooni	6.4	3.1	2.2	3.4	160
8	Drain near Mangattiri bridge				Dried	
9	Drain near Ettirikkadavu bridge	7.8	4.5	2.6	4.8	20
10	Epothingal	6.4	3.8	2.4	4.5	160
11	Asarikkadav	7.8	4.2	2.8	4.8	200
12	Kandanathkadav				Dried	
13	Pancharamoola				Dried	
14	Kakadav	6.9	3.4	1.8	3.2	NIL
15	Kanathkadav	6.5	3.0	1.6	3.6	180
16	Drain near tirur railway station				Dried	
17	Payyanangadi (kadayithodu)				Dried	

**ASSISTANT SCIENTIST**

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 MARCH 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 JANUARY 2025	Progress in the month of FEBRUARY 2025	Progress in the month of MARCH 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 January 2025	Progress in the month of February 2025	Progress in the month of March 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 JANUARY 2025	Progress in the month of FEBRUARY 2025	Progress in the month of MARCH 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 JANUARY 2025	Progress in the month of FEBRUARY 2025	Progress in the month of MARCH 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 JANUARY 2025	Progress in the month of FEBRUARY 2025	Progress in the month of MARCH 2025	% Works Completed	Details Of Remaining
1	Collection of plastic waste from the river	Olavanna Gramapanchayat	Continuous process			Completed	Completed	
2	Collection of segregation of solid waste in the river	Olavanna Gramapanchayat	Continuous process			Completed	Completed	
3	Cleaning of Mambuzha river	Olavanna Gramapanchayat	Continuous process			Completed	Completed	Completed
4	Well recharge	Olavanna Gramapanchayat through MGNREGS	4/2023 To 3/2024			Completed	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	Continuous 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 JANUARY 2024	Progress in the month of FEBRUARY 2025	Progress in the month of MARCH 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				
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 JANUARY 2025	Progress in the month of FEBRUARY 2025	Progress in the month of MARCH 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 JANUARY 2025	Progress in the month of FEBRUARY 2025	Progress in the month of MARCH 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	Time line Progress in the month of JANUARY 2025	Progress in the month of FEBRUARY 2025	Progress in the month of MARCH 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 JANUARY 2025	Progress in the month of FEBRUARY 2025	Progress in the month of MARCH 2025	% works completed	Details of works remaining
E	Dredging and desilting	Irrigation Department	3 years			Desiltation of kallayi river under urban agglomeration. SHO on 12.09.2024 and Dredging work started		
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

REGIONAL OFFICE, KOZHIKODE



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

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

Environment
CALICUT
Date: 16/04/2025
Kerala State Pollution Control Board

ANALYSIS REPORT OF RIVER WATER

Report No.	K R O S 5 4 9 0 / 1 to 5	Date:	1 5 0 4 2 0 2 5					
Date of Sample Collection	1 5 0 3 2 0 2 5	Date of receipt of the sample	1 7 0 3 2 0 2 5					
		Time	Hours: 0 3 : 0 0 PM					
Sampled by:	RL, KKD	Sample ID	KL1, KL2, KL3, KL5, & KL6					
Sampling Method	APHA1060B,a	Sample Lab Code	KROS :5490/1-5					
Sample container	PC 2.5 L	Ref.letter No.	PCB/KKD/DO/ Polluted River Stretch/2018 Vol. IV, Dated 17.03.2025					
Source:	KALLAI RIVER WATER	Received from:	EE,DO,KKD					
		Period of analysis:	17.03.2025-15.04.2025					
Specific sampling location:	KALLAI POLLUTED RIVER STRETCH	No. of samples	5					
		Analysed by:	SNS/NSS/PVH/MT/AKR					
Sample preservation:	Ice box	Method: Standard Methods for the examination of Water and Wastewater, APHA AWWA WEF (22 nd Ed.)						
sl no	Parameters	unit	Method No.	SAMPLE ID				
				KL 1	KL 2	KL 3	KL 5	KL 6
1	pH	-	APHA 4500-H+,B	7.53	7.58	7.82	8.03	8.07
2	CONDUCTIVITY	µmhos/cm	APHA 2510B	27600	35100	40400	43600	42400
3	BOD	mg/L	IS3025 (Part 44)	3.3	2.27	1.73	1.6	1.8
4	DISSOLVED OXYGEN	mg/L	APHA 4500-O,C	8	7.5	4.3	5.5	4.7
5	TOTAL COLIFORM,	CFU/100ml	APHA 9222B	8000	36000	18000	5000	5000
6	FECAL COLIFORM	CFU/100ml	APHA 9222D	6000	24000	13000	3000	2000
7	FECAL STREPTOCOCCUS	CFU/100ml	APHA 9230 C	1200	510	320	5400	2100
8	TEMPERATURE	°C	APHA 2550B	29	29	29	29	29

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 .

AE/PA

16/4/25

[Signature]

Scientist in charge

Monthly Analysis report of river -Pullur- March 2025		
Sampling Date: 11/03/2025		
Station Name	RIVER PULLUR AT PULLUR BRIDGE	
Type of Water body	RIVER	
Sl.No	Determinants	Values
1	Temperature, 0C	RIVER DRY/STAGNANT
2	Dissolved Oxygen, mg/l	RIVER DRY/STAGNANT
3	pH	RIVER DRY/STAGNANT
4	Conductivity, μ mhos/cm	RIVER DRY/STAGNANT
5	BOD, mg/l	RIVER DRY/STAGNANT
6	Nitrate-N, mg/l	RIVER DRY/STAGNANT
7	Turbidity, NTU	RIVER DRY/STAGNANT
8	Phenolphthalein Alkalinity, mg/l	RIVER DRY/STAGNANT
9	Total Alkalinity, mg/l	RIVER DRY/STAGNANT
10	Chloride, mg/l	RIVER DRY/STAGNANT
11	COD, mg/l	RIVER DRY/STAGNANT
12	TKN, mg/l	RIVER DRY/STAGNANT
13	Ammoniacal-N, mg/l	RIVER DRY/STAGNANT
14	Total Hardness as CaCO ₃ , mg/l	RIVER DRY/STAGNANT
15	Calcium as CaCO ₃ , mg/l	RIVER DRY/STAGNANT
16	Magnesium as CaCO ₃ , mg/l	RIVER DRY/STAGNANT
17	Sulphate, mg/l	RIVER DRY/STAGNANT
18	Calcium (Ca ²⁺), mg/l	RIVER DRY/STAGNANT
19	Magnesium (Mg ²⁺), mg/l	RIVER DRY/STAGNANT
20	Sodium, mg/l	RIVER DRY/STAGNANT
21	Total Dissolved Solids, mg/l	RIVER DRY/STAGNANT
22	Total Fixed Solids, mg/l	RIVER DRY/STAGNANT
23	Total Suspended Solids, mg/l	RIVER DRY/STAGNANT
24	Phosphate, mg/l	RIVER DRY/STAGNANT
25	Boron, mg/l	RIVER DRY/STAGNANT
26	Potassium, mg/l	RIVER DRY/STAGNANT
27	Fluoride, mg/l	RIVER DRY/STAGNANT
28	Total Coliform, MPN/100 ml	RIVER DRY/STAGNANT
29	Fecal Coliform, MPN/100 ml	RIVER DRY/STAGNANT
30	Fecal Streptococcus, MPN/100 ml	RIVER DRY/STAGNANT
31	% SODIUM	RIVER DRY/STAGNANT
32	SAR	RIVER DRY/STAGNANT

Sd/

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 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	<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</p>		
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	<p>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 flood 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, KERALA

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of January 2025	Progress in the month of February 2025	Progress in the month of March 2025	% works completed	Details of works remaining
C(ii)	Material collection facility. Operation	MangalpadyGramam Panchayath	2019	Not submitted	Not submitted	Not submitted		Completed. Kubanoor Plant is working
C	Waste management including purchase of vehicle to collect waste.	MangalpadyGramam Panchayath	2019-2020	Not submitted	Not submitted	Not submitted		Approval for purchase of vehicle not sanctioned from Government.
E	Installation of camera	MangalpadyGramam Panchayath	March 2020	Not submitted	Not submitted	Not submitted		
C	Electrification of material collection facility	ManjeshwaramGramam Panchayat	2019-2020	Electrified	Electrified	Electrified	100%	Completed
C	Transportation of collected waste	ManjeshwaramGramam Panchayat	March 2020	1710 Kg SEGREGATED AND 3730 Kg REJECTED WASTE	830 Kg SEGREGATED AND 2320 Kg REJECTED WASTE TRANSPORTED	21430 Kg REJECTED WASTE TRANSPORTED	100%	Completed

				TRANSPORTED				
E	Installation of camera	Manjeshwaram Grama Panchayat	March 2020	CCTV INSTALLED AT 4 PLACES BY KELTRON, CONNECTED TO POLICE STATION AND PANCHAYATH OFFICE 50% ADVANCE PAYMENT MADE TO KELTRON FOR INSTALLATION OF 14 CC CAMERA, CAMERA INSTALLATION COMPLETED	CCTV INSTALLED AT 4 PLACES BY KELTRON, CONNECTED TO POLICE STATION AND PANCHAYATH OFFICE 50% ADVANCE PAYMENT DONE TO KELTRON FOR INSTALLATION OF 14 CC CAMERA, CAMERA INSTALLATION COMPLETED	CCTV INSTALLED AT 4 PLACES BY KELTRON, CONNECTED TO POLICE STATION AND PANCHAYATH OFFICE 50% ADVANCE PAYMENT DONE TO KELTRON FOR INSTALLATION OF 14 CC CAMERA, CAMERA INSTALLATION COMPLETED	100%	Completed
C	Tying of net on both sides of the bridge	Irrigation Department				A letter has been sent 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 NH 66 widening.		
E	Continuou s vigil on waste dumping on roads	Police Department						
A(a)	Water quality monitoring	KSPCB	Being done regularly					