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KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Pattom P.O., Thiruvananthapuram – 695 004

പട്ടം പി.ഒ., തിരുവനന്തപുരം - 695 004



KSPCB/314/2025-CEE

Date: 08.08.2025

From

The Chairperson

To

The Secretary

Ministry of Jal Shakthi,

Department of Water Resources, River

Development & Ganga Rejuvenation,

Shram Shakti Bhawan, Rafi Marg,

New Delhi- 110001

Sub:-Forwarding Monthly Progress Report for the month of June 2025 -reg.

Ref:-.Order of the Hon'ble NGT in the matter of O.A.No.673/2018

Sir,

Kind attention is invited to the subject matter. The matter is reported for kind information. As per CPCB report on water quality 2022, 11 polluted river stretches were deleted and 8 new stretches were added and hence the number of polluted river stretches is currently 18. The report prepared in revised format with respect to the progress in implementation of action plan of polluted river stretches, for the month of June 2025 is submitted herewith.

Yours faithfully,


CHAIRPERSON

Encl: As above

National Mission for Clean Ganga
Monthly Progress Report for the month of June 2025 in the NGT
Matter OA No. 673 of 2018 (in compliance to NGT order dated
24.09.2020)

For the State of Kerala

Overall status of the State:

I. Total Population: Urban Population & Rural Population separately:

As per Census 2011, Kerala has a population of 3,37,77,386. Rural population in Kerala is 2,58,40,501 and urban population in the state is 79,36,885. Population projected for 2024 is 3,56,40,084. The water consumption and wastewater generated are calculated based on the population projected for 2024.

• **Estimated Sewage Generation(MLD):**

Based on population projected for 2024, the estimated sewage and sullage generation is as given below:

- Estimated Sewage and Sullage generation in Urban area - 1018 MLD

Sewage = 305.4 MLD

Sullage = 712.6 MLD

- Estimated Sewage and Sullage generation in Rural area - 2981 MLD

Sewage = 894.3 MLD

Sullage = 2086.7 MLD

Total Sewage and Sullage generation – 3999 MLD

• **Details of Sewage Treatment Plant:**

- Existing no. of common STPs/CSTPs: 27 (common STPs and other STPs) and 4 common FSTPs and **2039** number of individual STPs
- No. of functional common STPs in the state: 14
- No. of functional common septage treatment plants in the state: 4
- Total sewage treatment capacity in the state through existing common STPs *: =138.31 MLD (Urban area = **129.695** MLD rural=**8.615** MLD)
- Total septage treatment capacity in the state through existing common FSTPs: 0.22 MLD
- Sewage treatment capacity via individual STPs in establishments = **96.322 MLD**
- In Kerala, individual houses have septic tank/ soak pits existing for toilets attached to them.
- Gap in treatment of sewage in terms of sewage treatment plant = **79.163 MLD** (Urban)

- In Kerala, 48% highland (>75 m altitude); 41.76% midland (7.5-75m) and a low land (<7.5 m) of 10.24% (<https://kerenvis.nic.in>). Kerala has a rural-urban continuous settlement pattern. In Kerala, flats are less compared to individual households which are having septic tank /soak pit existing for toilets attached to them.
- Kerala is declared as open defecation Free State. A survey of liquid waste management was conducted in 2016 for 66.7 lakh residences (www.haritham.kerala.gov.in). The study revealed that in most of the household sullage from(kitchen, bathroom) is separated from sewage (toilet).
- Sullage which forms 70% of domestic waste water and sewage is only 30%.The major quantity of sullage, which is not contaminated with faecal coliform, is disposed through soak pit and for farming in their own premises.
- Sewage is discharged through septic tank/soak pit, common/ individual sewage treatment plant. The mixing of sewage and sullage occurs in the case of common sewage treatment plant and individual STPs. Based on the survey results retrofitting measures are also adopted in the State.
- Onsite sanitation is practiced in the majority of places, where septic tank, soak pit are provided. Septic tank, soak pit are already specified in CPHEEO manual and IS codes are available for their specification.
- Based on the instruction from Jalsakthi, Status of liquid waste management in all local bodies including panchayat have been called for by means of google spreadsheet. From the data received so far, the sullage which is not contaminated is disposed through soak pit and for farming in household premises is also reported.
- Asset mapping including septic tank and soak pit is completed in cities namely Kannur.
- Besides the above, Sanitation survey is conducted near the polluted drains, sources of pollution is identified and action is taken to stop any discharge of sewage/ sullage into the drain.
- In the thickly populated/ urbanized low land areas, action is taken to divert the sewage into common sewerage system/ retrofitting measures based on local condition.

Proposals submitted for NRCP fund

- DPR for sewerage system in cluster 1 comprising Attukal, Ambalathara, Kalady, Kalippankulam, Kamaleswaram was forwarded to Ministry of Jalsakthi vide letter dated 24.11.2022 for funding under NRCP. MoJS examined the proposal and requested KWA to prepare detailed project report in line with the guidelines of NRCP based on their observations. (Letter No.J-24025/1/2022-NRCD-II dated 07.12.2023). Board has requested KWA (Letter No. KSPCB/1852/2023-AE-13 dated 05.09.2024) to prepare detailed project report in line with the guidelines of NRCP and submit the same to MoJS through WRD. The same was intimated to Environment Department and Water Resource Department.
- As part of the Cochin Metro Rail Limited's Integrated water transported system project 4 STPs are proposed at Elamkulam, Vennala, Muttar, and Perandur for treating the water coming through drains and discharging treated water to water bodies. DPR for sewer line at

Muttar, Perandoor, Vennala, Elamkulam was forwarded to Ministry of Jalsakthi on 31.01.2023 for funding under NRCP. MoJS was requested to release the fund via Letter No KSPCB/1852/2023-AE-13 dated 08.07.2024. Administrative approval and expenditure sanction received for projects proposed at Perandoor and Elamkulam

Further action taken

- Letter was issued to District Collector Thiruvananthapuram to complete the activities in Karamana action plan and copy of letter is enclosed. This includes following:
 1. Taking of urgent action for the full utilization of 5MLD plant of Medical College.
 2. DG sets in sewage pumping/lift stations are to be operated urgently,
 3. To stop discharge from sewage lift station of Plamoodu,
 4. Urgent corrective actions are to be taken to divert discharge waste water from Rajaji Nagar,
 5. Urgent action is to be taken for the rehabilitation of sewer networks
 6. Urgent action is to be taken for completion of construction of slaughter house at Kunnukuzhi
 7. Urgent action is to be taken to treat waste water in the market of Pangode, Kumarichanda
 8. Urgent action is to be taken for completion of sewer work in newly added areas (sewerage system from Block F to G, Block H to R, Block A to E).
 9. Urgent action is to be taken to provide 155 houses in Kurukuvilakom with septic and treatment system.
 10. The process on addressing gap of 107 MLD plant at Muttathara is to be reported.
 11. Urgent action is needed to finish the work of rehabilitation of 8150 families from the banks of river.
- Direction was given to district collectors to prepare action plan for new river stretches.
- Letter issued on 7.12.2024 to Chairperson DLTC (SEE, Irrigation) for the preparation action plan for new river stretches and regarding implementation action plan for existing stretches.

Non installation of STP at Ernakulam Junction railway station, South:-Notice was issued to railway Station, South Ernakulam for noncompliance of the Board's direction for installation of STP and for not providing treatment for the waste containing oil from locoshed. This has been brought to notice of CPCB vide letter dated 15.03.23. EC Notice issued to railway on 27/06/2023. Reply received on 17/07/2023 and hearing conducted on 07/09/2023. The decisions taken in hearing were to provide a temporary facility to treat sewage generated from toilets in South railway station and housing complexes and excess quantity shall be collected and transported to the common facility at Elamkulam within a period of one month. Also proper treatment facility shall be provided to the effluent and septage from bio toilets and residential complexes. Sewage treatment plant of 750KLD for Ernakulam South is reported to be completed by October 2024.

Inspection was conducted with Railway official on 08.02.2024. Presently, the sewage from the railway station and railway housing complexes are disposed through the septic tank located near the KSRTC bus stand, Ernakulam South. Sewage is collected in two pump houses near the railway station and housing complexes and from there the sewage is pumped to the septic tank. Railway official informed that STP is proposed to be installed at the land near to the Railway housing complexes and the work can be started only after demolishing some housing complex buildings for clearing the land. The construction of STP has not started yet. Presently, the waste water is being disposed through the existing septic tank soak pit system.

Board has informed railway that, in spite of repeated direction; Railway has not taken proactive steps to install a permanent STP at Ernakulam South Railway Station even after 3 years from issue of consent. This lapse is viewed serious and Board is to take further action in case of violation of Board's direction. (Letter No. KSPCB/586/2023-EE-1 dated 28.06.2024). Further action is being taken by the Board.

Non installation of STP at Aluva station:- Principle approval for permanent STP of 50 KLD has been received and the proposal is under processing for final sanction.

Inspection was conducted by Board officials on 22.02.2024. Railway officials informed that they are not installing temporary STP and procedure for installation of permanent STP is going on. Currently waste water is being disposed to Septic tank-Soak pit system in 2 locations within the railway station compound. Board has informed railway that, inspite of repeated direction; Railway has not taken proactive steps to install a permanent STP at Aluva Railway Station even after 3 years from issue of consent. This lapse is viewed serious and Board is to take further action in case of violation of Board's direction. (Letter No. KSPCB/586/2023-EE-1 dated 28.06.2024). Further action is being taken by the Board.

Non installation of STP at Ernakulam North: Railway has not taken proactive steps to install a permanent STP at Ernakulam North Railway Station even after 3 years from issue of consent. Existing consent expired on 15.11.2023. Even though Railway applied for renewal, application was returned for compliance reporting in STP installation. Consent to Establish an STP of 350 KLD is applied & CTE was issued on 04.02.2025. Further action is being taken by the Board.

Lapses in remediation of oil contaminated area at Diesel Loco Shed, Southern Railway, Ernakulam:-Removal of oily sludge near the diesel locoshed and remediation of the area is in progress. The proposed cost of the work is Rs.22 lakhs.

The Railway started the work at February 2024. Inspection was conducted on 20.02.2024 and the remediation work was progressing at the time inspection. Nearly 2000 sqft area was demarcated for remediation. The land is a marshy land. The top soil containing oil was removed and spread out for drying. The water containing oil content from the remediation area was pumped in to a pit nearby and left open for drying. Inspections were conducted in every week since the commencement of remediation. Inspection was conducted by Board officials on 09.04.2024. Remediation work and filling of the land with red earth was seen completed. The excavated oil sludge will disposed to

KEIL Even though there is large extent of affected water logged area, the railway have now completed remediation 2000 sqm ft land area.

- Action is also being taken for providing temporary measures and NEERI, Nagpur furnished a proposal for the feasibility study on the development of process package of treatment of domestic sewage for meeting the environmental compliance at Edappally canal and Perandoor canal at Ernakulam and Pallikalar at Kollam district for an amount of Rs 45 lakhs and this proposal was approved by the Board and draft MOU has been signed. As per terms of payment in MoU, 1st installment of Rs 26,55,000/- including GST(Rupees Twenty Six Lakh Fifty Five Thousand Only) is released to the account of CSIR NEERI, Nagpur, Maharashtra. The scientists from NEERI conducted site inspection and monitored different canals/drains in Kochi and Kollam from April 14–19, 2024 and a preliminary report was submitted on 12.09.2024. Second field visit was done from October 15-21, 2024 and third visit carried out during 7.2.2025 to 12.2.2025 for further data collection.
- Instruction was also given for the full utilization of Common STP at Guruvayur and Kureepuzha and they are taking steps for registering of tankers and byelaw approval. Co-treatment tank is provided at Guruvayoor STP.
- Action is also taken for the rejuvenation of Amayizhinanthodu, Ulloorthodu, Pattomthodu in Karamana catchment. As per the meeting chaired by Chief Secretary on 05.09.2023. A sanitation survey on the drains reaching AkkulamVelilake and its watershed was done by Socio Economic Unit Foundation (SEUF). Along the buffer distance of 100 metre from each banks of Amayizhanchan thodu, Pattom thodu and Ulloor thodu, the assets mapped and the problem areas were identified and action plan was prepared. Based on major observations, instruction issued to TVPM corporation and KWA. A stake holder meeting was held with Trivandrum corporation, PCB, KWA, Irrigation Department and SEUF survey team
- In Kollam district, Manichithodu and Thoppilkadav are stretches where major pollution was reported. Sanitation survey was conducted and the problem areas were identified. Action plan based on sanitation survey findings were shared to stakeholder departments.

Besides above, the following actions were taken by LSGI for liquid waste management:

- Kollam Corporation has taken up a project of Rs. 87 Lakhs for providing biodigester toilets to BPL houses near Ashtamudi lake for replacing leach pits.
- District Level Inspection Committee for checking the feasibility of proposal for setting up FSTPs in degraded land was constituted as per GO (Rt) No. 2558/2022/LSGD dated 21.10.2022.
- FSTPs with land readily available - 16 nos (10 nos under SBM(G) and 6 nos under SBM(U) (DPR Prepared- 4 Nos, Tendering stage- 9 Nos, DPR to be prepared 3 nos) Timeline expected is 18 months
- Mobile Treatment Unit technology is developed by WASH Institute and recommended by Principal Scientific Advisor (Sanitation) under Innovative Technologies list. In order to cover the areas where centralized treatment facility coverage is not available. Work order issued to two Local Self Government Institutions.

- IEC campaign by way of Jalsabhas and transect walk by volunteers, students and local communities across water bodies to gauge pollution and develop community understanding of the dangers of inadequate liquid waste management to the health of water bodies was conducted in all local bodies, both rural and urban.
- The State has executed over 165 Information, Education, and Communication (IEC) and capacity-building (CB) programs throughout its regions, showcasing a concerted effort towards enhancing Liquid Waste Management (LWM) initiatives. Technical experts and agencies for Liquid Waste Management have been empanelled. Malam bhootham – intensive campaign to highlight the dangers of faecal contamination and the urgent intervention, has been launched
- In situ expertise is being encouraged through capacity building of structural engineers and other motivated civil engineers within LSGD, so as to able to undertake the projects on their own.
- Self Help Groups. Micro enterprises are being mobilized and trained to take on the O&M of such projects.
- Liquid waste management projects have been included in the panel of projects for regular priority review by the Honorable CM, so as to resolve interdepartmental, financial and other policy issues in taking these projects forward expeditiously.
- **Condition Assessment and Management Plan for the Periyar River Basin**

Stakeholder Advisory (SAC) committee of the project CAMP for six river basins was convened by MoJS on 31.05.2024 and Periyar was one among the six river basins. The objective of the studies and management plan shall be to restore and maintain wholesomeness of the river ecosystem, improvement of ecological health, enabling rivers to perform its functions and to make the rivers Samarth supported on 5 pillars. – Unpolluted River Flow (Nirmal Dhara), Continuous River Flow (Aviral Dhara), River Conservation Synchronized Development, Connecting People and River Science & Management.

Earlier, in case of Ganga river basin, Ganga River Basin Management Plan (GRBMP) was prepared by the consortium of 7 IITs with IIT Kanpur as the lead partner. The centre for Ganga River Basin Management and studies (cGanga) has been established at IIT Kanpur to advise and providing continual scientific support to the Government for implementation and dynamic evolution of the Plan.

Similar methodology has been proposed for Periyar river basin by the consortium of IIT Palakkad and NIT Calicut with IIT Palakkad as lead institute.

- **Integrated Web Portal**

A unified web portal for implementation and monitoring of various activities related to Board. The key objective of the web portal includes analysis of water quality data from the National Water Monitoring Program, State Water Monitoring Program, Spatial mapping of all monitoring points and display of designated best use water, quality criteria-wise classes, Air Quality Index calculation, generation of Air & Water quality directory, Status of different solid and liquid waste treatment

facilities in the State, Data of Industrial and Non-Industrial activities including Category, type, scale etc.

- **Lake Rejuvenation Projects by ULBs**

- For cleaning and upgrading the section from Manichithod to Ashtamudi Lake, a budget of Rs.1 Cr has been allotted. In addition to cleaning the canal, the project includes the installation of barricades at various places to prevent plastic waste from flowing in and the installation of nets on the side of the canal to prevent dumping of garbage. This work is in progress.
- Rs. 50,00,000/- (Fifty Lakhs) has been allocated through Development Fund of Kollam Municipal Corporation (Finance Commission Tied Grant) for the construction of toilets and septic tanks on the banks of Ashtamudi Lake and other coastal areas.
- Kollam Corporation along with 12 neighboring Panchayats have earmarked Rs. 4.20 Crores for Ashtamudi lake cleaning. This project includes cleaning, restoration and protection of various areas of the Kollam Corporation and nearby Panchayats on the banks of Ashtamudi Lake. This project is in progress. 48 jetties in the banks of Ashtamudi Lake have been cleaned under this project so far.

MGNREGS

In regions earmarked for the establishment of Fecal Sludge Treatment Plants (FSTPs), it is imperative to implement a comprehensive strategy for the effective management of grey water. To address this crucial aspect of decentralized wastewater management, a total of 53,662 household-level soak pits, with an investment of Rs. 48.295 crore, have been strategically constructed. Simultaneously, 3,392 community-level Grey Water Management (GWM) systems have been implemented at a cost of Rs. 10.17 crore under MGNREGS & SBM G. These endeavors signify a significant financial commitment to ensuring the separate and efficient treatment of greywater in areas where FSTPs are anticipated. The construction of household-level soak pits and community-level GWM systems not only aligns with environmental sustainability goals but also contributes to the overall improvement of decentralized wastewater infrastructure, reinforcing the state's commitment to holistic and efficient sanitation practices.

Progress in Action plans

STPs are being planned for Irinjalakkuda Municipality, Thripunithura Municipality, Thikkakkara Municipality, additional STP requirement for 60 crores for Thiruvananthapuram District and for Taluk Hospital by Mavelikkara Municipality (300KLD). Revamping of STPs at Elamkulam (including capacity enhancement), Adwaithasramam & Aluva Market in Ernakulam District and enhancement of capacity utilisation of 107 MLD plant at Muttathara, Thiruvananthapuram are also being proposed.

FSTPs are being planned for Irinjalakkuda Municipality, Chengannur Municipality and Thiruvalla Municipality

The following CSTPs / STPs were completed :—

- 5 MLD STP at Medical College, Thiruvananthapuram

- 5 MLD at Elamkulam with septage treatment facility at Kochi, Ernakulam
- 0.01 MLD FSTP at Mattampuram, Thrissur
- 3 MLD at Chakkamkandam, Guruvayur, Thrissur.
- 2 MLD STP at Kozhikode medical College.
- 1 MLD STP at Kozhikode medical College.
- 500 KLD STP at Kozhikode medical College
- 0.01 MLD FSTP at Kalpetta, Wayanad
- 1 MLD CSTP at Padanappalam, Kannur
- 240 KLD STP at General Hospital, Alappuzha
- 360 KLD STP at General Hospital, Thrissur
- STP of capacity 0.03 MLD at Tirur Municipal Bus Stand, Malappuram



500 KLD STP at Kozhikode medical College



1 MLD STP at Kozhikode medical College



360 KLD STP at General Hospital, Thrissur



1 MLD CSTP at Padanappalam, Kannur

Details of existing STPs/ Common STPs/ common Septage treatment plants in the State :

- 107 MLD STP in Thiruvananthapuram District at Muttathara (Activated Sludge with extended aeration process). The present sewerage system cover 43 out of 100 wards of Thiruvananthapuram corporation area either partly or fully. 75% of capacity of the 107 MLD STP is utilized. Completion of ongoing works will enhance the utilization by 15%. Co processing of septage is also taking place. Control room is available for tanker transportation of septage. Letter issued to KWA for full utilization of common STP in

Thiruvananthapuram District at Muttathara. A total of Rs. 22.79 Crores has been utilized for the operation, maintenance of two plants at Muttathara and Septage treatment plant at Willington Island.

- Considering the contamination of Karamana river and for providing sewerage systems for the 19 wards on the bank of this river, DPR prepared and submitted to GoK on 16.10.2021 for issuing AS under RKI. DPR for the remaining 81 wards for the full capacity utilisation of 107 MLD STP is under preparation.
- Smart city mission has deposited Rs. 9.34 Crores to KWA for revamping of old sewer lines and laying new lines along the Smart city roads in TVPM. The work is progressing.
- A major project of 12 MLD capacity is being constructed at Kureepuzha, Kollam which is currently at 93% completion.
- 5 MLD STP at Elamkulam is functional. Dilution tank constructed and co treatment of septage started from 4/8/2023. AS received for extra network for 1.75 MLD for an amount of Rs. 63.91 crores under RKI.
- Medical College 5MLD STP: Works of 5MLD STP under AMRUT for Medical College, Thiruvananthapuram completed and started functioning from Sep 2021. This STP is exclusively for Thiruvananthapuram Medical college campus. Letter have been issued for full utilization of STP. The present load is 2.5 MLD and on connecting two buildings to this STP the load to 4 MLD.
- 3 MLD STP at Guruvayur (Activated sludge process)-The Guruvayoor Sewerage Project is planned to provide an effective sewerage system for the thickly populated area under Guruvayoor Municipality. It is functioning from September 2021. Length of network is approximately 7 km. Action is being taken for the complete utilization of STP. Dilution tank constructed for co treatment. Council has approved the proposal for upgradation of 3 MLD STP (at Chakkamkandam) to 5 MLD STP (septage co-treatment).

Sl. No.	STP location	STP Installed capacity	Utilization	Status
THIRUVANANTHAPURAM				
1	Common Sewage Treatment Plant, Muttathara, Trivandrum maintained by Kerala Water Authority (Co Processing facility for septage)	107 MLD (Activated Sludge Process)	80 MLD	• Operational (pH-7.3, TSS-6.3 mg/L, BOD- 8.3 mg/L, COD-64 mg/L, Oil and grease-0.8 mg/L, Faecal Coliform-2400 cfu/100ml as per analysis report dated 05.07.2025). • Action is being taken for preventing its exceedance. • Some quantity of treated water is used for irrigation, construction etc. • On completion of ongoing works and on implementation of DPR under preparation, full utilization of 107 MLD can be achieved. • Two DPRs submitted to GoK for AS. Directions issued to KWA for full utilization of plant
2	STP at Medical College, Thiruvananthapuram-Phase I & II (PRS)	5MLD(MBBR)	3 MLD	• Operational (pH-3.5, TSS-35.1 mg/L, BOD- 1.9 mg/L, Bio – assay Test – 100% fish died within 1 hour, COD- 88

				mg/L, oil and grease-BDL, Total Coliform – 100 cfu/100ml, FC – NIL as per analysis report dated 05.07.2025). • The matter is being followed up.
PATHANAMTHITTA				
3	Sewage Treatment Plant at Sannidhanam (5MLD) Maintained by Travancore Devaswom Board	5 MLD (UASB and SBR)	3.5 MLD	- Operational (pH-9.5, BOD-61.56 mg/l, COD- 116 mg/L, oil and grease- 15.2 mg/l, Total Coliform – NIL, TSS- 1844 mg/l, TDS- 22390 mg/l, as per analysis report dated 30.06.2025 after disinfection). - Letter issued to Travancore Devaswom Board (Letter No. PCB/PTA/ICO/2781/2017 dated 30.07.2024)
4	Sewage Treatment Plant at Pamba (3.5 MLD) maintained by Travancore Devaswom Board	3.5 MLD (Coagulation & settling)	3.5 MLD	- Operational (pH-8.5, BOD-206 mg/l, COD- 240 mg/L, Suspended Solids - 81 mg/l, Total Coliform – NIL, as per analysis report dated 30.06.2025 before chlorination). - Action is being taken for preventing its exceedance.
ALAPPUZHA				
5	DEWATS system, Chathanad (For 50 houses in slum area)	25 KLD (Anaerobic Baffle Reactor)	25 KLD	Operational (pH – 6.9, BOD – 17.6 mg/l, SS – 10 mg/l, Oil and grease BDL as per the analysis report dated 16.01.2025)
6	STP at General Hospital	0.24 MLD	0.1 MLD	Electro coagulation.
KOTTAYAM				
7	STP for Houseboat (0.09 MLD) at Kumarakom maintained by DTPC, Kottayam	0.09MLD (Activated Sludge Process)	0.09 MLD	- Operational (pH- 6, BOD – 18 mg/l, SS - 15 mg/l, Oil & Grease-BDL as per the analysis report dated 04.03.2025). - The quality of effluent conforming to standards.
ERNAKULAM				
8	STP owned by Greater Cochin Development Authority, Marine drive, Kochi	0.9 MLD (Activated Sludge Process)	0.9 MLD Proposed to augment to 2 MLD	- Operational. - Analysis report dated 14.11.2024 (pH-7.2, TSS-18 mg/l, BOD-17.9 mg/l, oil & grease- BDL).
9	STP at Elamkulam, Kochi (AMRUT)	5 MLD(MBBR) with Co treatment 24 KLD	4 MLD	- Co-treatment is temporarily stopped due to choking in the plant. - NIIST has submitted the report to KWA. Three options provided. - Treatment Option II: possibility of co-treatment with septage was explored without compromising the hydraulic load but with the provision of additional infrastructure (MBBR tank). - Second option is selected based on discussion with concerned engineers. - Analysis report dated 19.10.2024 (pH-

				6.9, TSS-11 mg/l, nitrate -7.90 mg/l, phosphates- 1.4 mg/l, ammoniacal nitrogen- 3.88 mg/l, BOD-7.5 mg/l, COD- 16 mg/l, oil & grease- BDL, total Kjeldahl nitrogen- 4.48 mg/l).
10	STP owned by GCDA, International Stadium Kaloor	0.75MLD(Activated Sludge Process)	0.05 MLD	- Operational. - Analysis report dated 11.12.2.24 (pH-7.51, TSS-21.5 mg/l, BOD-4.6 mg/l, oil & grease- 5 mg/l).
11	STP at Kalamassery, Market, Kalamassery Municipality (PRS)	10 KLD		Started operating
IDUKKI				
12	Sewage treatment Plant at Comfort station, Adimaly Grama Panchayat, Idukki	0.01 MLD		- STP was not working. - Show Cause Notice issued on 05.02.2024 - Inspection conducted on 15.07.2024 & direction will be issued
13	60 KLD STP at Taluk Hospital Adimaly, Adimaly Block Panchayat, Idukki	0.006 MLD		Operational MBBR Operational. (pH-7.45, BOD-27 mg/l, COD -56 mg/l, Suspended solids-24 mg/l, Oil and grease- BDL, Faecal coliform- Nil as per Analysis report dated 04.03.2025)
THRISSUR				
14	Sewage treatment Plant at Guruvayur, Thrissur District	3 MLD(Activated Sludge Process)	0.5MLD	Operational. (pH-8.5, BOD-6 mg/l, COD -36 mg/l, Suspended solids-18 mg/l, Oil and grease- 0.51 mg/l, Faecal coliform- 1440 cfu/100ml as per Analysis report dated 27.06.2025)
15	Revamping of 35 KLD STP at Kuriyanchira Slaughter House Corporation, Thrissur	0.035MLD (MBBR)	0.035 MLD	Operational (pH – 7, BOD – 165.6 mg/l, COD – 524 mg/l, SS – 0.63 mg/l, oil & grease – 15.2 as per the analysis report dated 02.09.2024) Action is being taken for preventing exceedance.
16	STP at General Hospital, Thrissur (AMRUT-1.0)	0.36 MLD	0.2 MLD	Operational. Sample was collected on 20.07.2024
MALAPPURAM				
17	Sewage treatment Plant at Malappuram Municipal Bus stand	0.03MLD(MBBR)	0.03 MLD	Project proposal for maintenance work have been approved. ICE issued to the unit vide consent No.KSPCB/MA/ICE/10022893/2024 dated 24/01/2024 valid till 24/02/2024
18	STP at Municipal Bus	0.05MLD	Working	Operational

	Stand, Tirur (PRS)	(Biological)		(Ph – 6.6, BOD – 12.4 mg/l, COD – 48 mg/l, TSS – 24 mg/l, Oil and grease – BDL as per the analysis report on 12.08.2024) • Action is being taken for preventing its exceedance. • Sample was collected on 18.07.2024. Analysis being done in district laboratory.
KOZHIKODE				
19	STP at Kozhikode Medical College.	2 MLD Old plant.	Working	• Operational. • According to analysis report on 01.07.2025 the following values were observed. pH -9, Total Residual Chlorine – Nil, TSS- 9.2 mg/l, COD- 48 mg/l, Oil and Grease- BDL , BOD-18.27 mg/l, Ammoniacal – N 38.85 mg/l and Nitrate – N-0.179 mg/l
20	STP at Kozhikode Medical College.	2 MLD With 100 KLD Co-treatment Facility	Commissioned on 05.10.2023	• Operational • According to analysis report on 01.07.2025 the following values were observed. pH -9.5, Total Residual Chlorine – Nil, TSS- 18.9 mg/l, COD- 64 mg/l, Oil and Grease- 11.76 mg/l, BOD- 46.6 mg/l, Ammoniacal – N 106.446 mg/l and Nitrate – N-0.614 mg/l
21	STP at Kozhikode Medical College.	1 MLD	0.1 MLD	Operational • According to analysis report on 01.07.2025 the following values were observed. pH -9, Total Residual Chlorine – Nil, TSS- 34.5 mg/l, COD- 120 mg/l, Oil and Grease- 5.52 mg/l, BOD-20.67 mg/l, Ammoniacal – N 57.927 mg/l and Nitrate – N-0.379 mg/l
22	STP at Kozhikode Medical College	500 KLD		Operational • According to analysis report on 26.05.2025 the following values were observed. pH -7, Total Residual Chlorine – Nil, TSS- 1.6 mg/l, COD- 16 mg/l, Oil and Grease- BDL , BOD-1.2 mg/l, Ammoniacal – N 5.401 mg/l , Chloride - 18 mg/l , Free Ammonia – 0.05401 mg/l and Nitrate – N-0.189 mg/l
23	Common Sewage Treatment Plant at Narayana nagaram, near stadium, Vatakara, Opp. New bus stand	0.1 MLD		According to analysis report on 27.06.2025 the following values were observed. pH -9, COD- 48 mg/l, BOD- 0.67 mg/l, Chloride - 30 mg/l , Suspended Solids – BDL.
KANNUR				

24	Sewage treatment Plant at Taliparambu (0.5MLD) Taliparamba Municipality, Kannur	0.5MLD (Activated Sludge Process)	0.5MLD	- Operational. - pH -7.84, TSS – 5 mg/l, COD- 16 mg/l, BOD – 3.8 mg/l, Oil and Grease- 11.48 mg/l as per the analysis report dated 07.05.2025
25	STP at old age home Kannur	0.010	0.010	MBBR (Operational) pH -7.59, TSS – 27 mg/l, BOD – 20 mg/l, COD – 24 mg/l; Oil and Grease- 1.8 mg/l, as per the analysis report dated 09.07.2025
26	STP at Padannappalam	1 MLD	0.3 MLD	Operational Rotating Media Bio Reactor pH -7.66, TSS – 39 mg/l, BOD – 10.7 mg/l, COD – 36 mg/l; Oil and Grease- 5.92 mg/l as per the analysis report dated 09.07.2025
WAYANAD				
27	Sewage Treatment Plant at Taluk Hospital, Sulthan Bathery	0.14 MLD(MBBR)	0.05 MLD	- Operational - pH -10.5, TSS – 13.7 mg/l, BOD – 15.24 mg/l, Oil and Grease- 2.08 mg/l, FC – Nil as per the analysis report dated 08.01.2025
Total Capacity			138.31 MLD	
FSTP				
ERNAKULAM				
1	Septage Treatment Plant at Brahmapuram, Kochi Corporation, Ernakulam	0.1MLD(MBBR)	0.1 MLD	pH- 7.26 mg/L, BOD- 0.87 mg/L, COD- 24 mg/L, Oil and Grease-BDL, Total Suspended Solids – 54 mg/L,, Phosphate – 0.06 mg/L, Nitrate- 3.09 mg/l, Sulphates – 12.49 mg/l, Sulphides – 8.34 mg/l, Ammoniacal Nitrogen – 0.20 mg/l, Phenolic Compounds -1.23 mg/L,,Faecal coliform –7 cfu/ 100 ml, Faecal Streptococci-60 cfu/ 100 ml as per analysis report dated 14.05.2025
2	Septage Treatment Plant at Wellington Island, Kochi Corporation	0.1MLD(MBBR)	0.1 MLD	- Not working properly. - Site visit done by KSPCB on 18.01.2024. - Consent refusal intention notice issued.
THRISSUR				
3	FSTP at Mattampuram	0.01MLD (Biological)	Started functioning	pH – 7.25, BOD – 7 mg/l, COD – 44 mg/l, SS – 0.09, Oil & Grease – 0.02 mg/l, Ammoniacal Nitrogen – Nil, Total Nitrogen – 35.37 mg/l, Total Phosphorus – 0.63 mg/l, Faecal Coliform – Nil as per analysis report dated 11.11.2024
WAYANAD				
4	FSTP at Kalpetta	0.01MLD(Biological)	0.01 MLD	Operational

				• pH – 7.23, TSS –4 mg/l, BOD – 11.196 mg/l, Oil and Grease- 4.04 mg/l as per the analysis report dated 08.01.2025
Total Capacity			0.22 MLD	
ETPs/CETPs				
IDUKKI				
1	Construction of 6 KLD ETP for Kumali Slaughter House Kumali GP, Idukki	0.06 MLD		• Slaughter house is not functioning.
MALAPPURAM				
2	Effluent treatment Plant at Tirur (fish market)	0.045 MLD (Biological)		Operational Ph- 6.3, BOD – 103 mg/l, COD – 330 mg/l, TSS – 64 mg/l, Oil & Grease – BDL as per analysis report dated 22.10.24 • Action is being taken for preventing its exceedance.
3	ETP in Fish Market, Ponnundam GP , Malappuram	0.01MLD(Anaerobic)	Plant is working.	The unit has submitted ICE of the Board on 18.03.2023. Inspection was carried out on 12.05.2023. ETP is operational but sample could not be taken. STP file has been returned for clarification on 29.05.2023.
Total Capacity			0.115 MLD	

Details of under construction of major ETPs / STPs in the State

No.	Location	Implementing Agency	Capacity of the plant in MLD	Physical Progress in %	Status of I & D or House sewer connections/ Previous status	Incremental progress	Timeline of Completion
THIRUVANANTHAPURAM							
1	FSTP at Varkala Municipality, Thiruvananthapuram (IMPACT KERALA Ltd)	AMRUT	50 KLD FSTP	Work Awarded	- Work awarded after DBO tender. Design being vetted by Anna University. Work on going on site. - Legacy waste removal from the site has been completed. Soil report reinvestigated. Initially approved vetted drawings by	- Contractor submitted MS FRP design drawings on 07.02.2025, placed before Technical Committee. - Technical committee raised some questions, contractor working on it. - Office Foundation work completed. Receiving chamber wall concrete completed.	31.08.2025

					Anna University revised. • Contractor has to submit MS FRP design drawings. • Contractor submitted design drawings on 07.02.2025, placed before Technical Committee & the committee approved the same. • Office building superstructure work completed; plastering completed. Receiving chamber wall concrete completed. Lab building foundation work completed.	• Office building superstructure works in progress. • Receiving chamber wall concrete completed. • Excavation for foundation completed, steel work in progress. • Process plant foundation completed. Steel structure installation in progress. • Enormous delay in bill payment.	
2	ETP 10 KLD Capacity, Nedumangad Municipality, Thiruvananthapuram		0.01		80%	Works completed.	31.08.2025
KOLLAM							
3	STP at Kureepuzha, Kollam (AMRUT-1.0)	Kerala Water Authority/ AMRUT	12	93%	12471 sewer connections are envisaged under AMRUT-2.0. STP (AMRUT-1.0): Physical progress - 90%. FSTP (AMRUT-1.0): KWA retendered the work. Last date of submission was extended	STP (AMRUT-1.0): In the meeting held at the ULB on 11.11.2024 by the Hon'ble Mayor, the contractor was directed to complete the STP works quickly so that the inauguration can be done in Dec-2024. Admin building construction, supply of MBBR	STP: 31.12.2025 5 FSTP: 31.05.2025 5 Sewer Network: 31.12.2026 6

				till 30.09.2024, 3 bids received & L1 is 48% above. KWA retendered the work on 19.10.2024 with 01.11.2024 as the last date of bid submission. Two bids received & L1 is 41% above. Decision on award of work to be taken by KWA. STP (AMRUT-1.0) -Civil work in progress. Sewer network (AMRUT-2.0) - 1 package in progress, TS to be issued for 3 packages.	media and supply & installation of rotary drum drier are the balance works. As the commissioning of the STP is delayed due to the non-completion of sewer network, the contractor requested to reduce the scope of the balance works and to modify the O&M arrangement of the STP. The recommendation of the KWA in this regard is to be placed in the next SLTC/ SHPSC for a taking a suitable decision. FSTP (AMRUT-1.0): KWA retendered the work on 19.10.2024 with 01.11.2024 as the last date of bid submission. Two bids received. The tender committee of KWA decided to reject the L1 (41% above) as they didn't meet the required qualification criteria and to accept the L2 (49% above negotiated to 48% above). The KWA submitted a request to the ULB on 26.11.2024 for placing an agenda in the next SLTC for approval of tender excess. Matter to be placed in the	

						SLTC/SHPSC and to be send to the Govt. for approval. Sewer Network (AMRUT-2.0): # Pallithottam-Thamarkkulam package - The contractor had filed a case (WPC No.32715/2024) against KWA for relieving them from the work. As per the judgment dated 13.09.2024, the MD, KWA has to consider the request of the firm and take a decision and inform the court within 2 months. A hearing was held by the MD, KWA on 22.10.2024 with the Contractor and further action is to be taken by KWA. # Iron Bridge, Vaady-Karumalil & Asramom packages - MoHUA's approval was received on 01.10.2024. The DPR of the project submitted by the ULB is to be placed in the next SLTC / SHPSC for approval of AS. Admin building works, supply & installation of one EM components are to be completed.	
4	STP at Chitumala Old Age Home. Chitumala BP,		0.015	98%	Original contractor of the work was terminated in	Joint inspection by the state technical officer and agency was	31.12.2025

	Kollam				risk and cost, LB entrusted the accredited agency IRTC to do the rest of the work. The agency prepared proposal. SM scrutinized and suggested to submit detailed estimate. It shall contain repairs and maintenance of already installed equipment and proposed new works. Comparison chart is being prepared by the agency.	arranged. The agency will submit a revised estimate along with new DPR. Original contract of the work was terminated in risk and cost, & the accredited agency IRTC has been tasked with completing the work. The agency has submitted proposal; TS is under processing for the additional works to make the plant run.	
5	190 KLD STP at Pathanapuram Market and Shopping Mall		0.190		38%	O&G trap and manhole construction completed. Construction hindered due to fund withdrawal issues. The contractor who was taken the work passed away. The remaining work has been taken as new project. Currently the DPR is under revision based on DSR 2021	31.12.2025
6	STP at Mayyanad GP, Kollam	IMPACT KERALA Ltd	590KLD Co-treatment	Work Awarded	• Agreement executed with the Contractor M/s Enrec Engineers on 29.02.2024. • Contractor submitted vetted process design. Submitted to KWA and got approval.	• Work ongoing at site. • Thanni, Valiyavila & Dhawalakuzhy - Above ground 4 tanks wall concrete completed. Thanni - Office building concrete work completed. • Valiyavila - Office building	30.09.2025

					• Dhawalakuzhy – Raw sewage tank excavation work in progress. • Thanni, Valiyavila & Dhawalakuzhy - Network line and manhole installation in progress. • Enormous delay in bill payment.	concrete work completed. • Raw sewage tank concrete in progress. • Thanni & Valiyavila - Network line and manhole installation in progress.	
ALAPPUZHA							
7	FSTP at Cherthala Municipality , Alappuzha	IMPACT KERALA Ltd	250 KLD Septage TP		Work ongoing at site. 99% of civil work completed.	Electro Mechanical Items reached site. Transformer installed. Electrical cabling works, solar panel installation and approval from KSEI pending. O&M agreement is signed. Cherthala FSTP plant inaugurated on 28.03.2025. Trial run completed. O&M agreement signed. Commissioning report to be given. PCB Consent to operate is pending. KSEB connection for solar panel is pending. Delay in bill payment.	Trial run
IDUKKI							
8	FSTP at Munnar, Idukki		50 KLD		5% work completed.	Due to a court case, work stopped temporarily District Collector Idukki has submitted report to Government for re-assigning the	Stalled

						land to Munnar GP. Work stopped due to court case	
KOCHI							
9	STP at Ambedkar Colony, Div-16, Edakochi South (AMRUT-1.0)	Kochi Corporation/ AMRUT	1.1	62%	1500 sewer connections are envisaged.	Work in progress	30.11.2025
10	STP at RAY Flats, Fort Kochi, Kochi Corporation (AMRUT-2.0)	Kochi Corporation	0.105	6%	199 flats will be connected	Working is hindered due to rain.	31.10.2025
THRISSUR							
11	Viyoore central jail STP (Thrissur)		0.05		65% work completed	Civil works completed. pipe online interconnection pending. Electromechanical works completed. Pipe laying works between septic tank and sewerage lines, kitchen outlets are pending.	31.07.2025
12	Kunnumkulam, Thrissur		0.01		Completion stage and ready for commissioning	Ready for commissioning	Ready for commencing
13	STP at CHC Cherpu BP, Thrissur		0.01	90%	Plant construction completed. Trial run to be completed. Final bill is to be submitted by LB. Detailed estimate is under preparation.	The revised estimate has been prepared, received and is currently under verification by Suchitwa Mission.	11/07/2025
14	STP at Community Health Centre Pazhayannoor Block Panchayath, Thrissur		45 KLD	1%	Work Started	Work in progress.	31.12.2025
PALAKKAD							
15	STP at Ottappalam Municipality, Palakkad District	IMPACT KERALA Ltd	1.50MLD Co-treatment	Work Awarded	• KRFB NoC- LB paid fee. • Railway NoC and PWD NoC –	• Pile cap shuttering work completed. • Grade beam shuttering work	December 2025

					higher level meeting required. • Beneficiary meeting decided to be convened by Municipality on 16.12.2024 • First bill submitted to KIIFB for Rs. 1.55 Cr (excluding GST). Awaiting payment. • STP work in progress. Pile completed. The concreting of the grade beam and base slab of the Intermediate Storage Tank, Sludge Holding Tank and Treated Water Tank completed, and the first lift concreting (3 meter) of the RCC wall completed. • Total station survey completed for finalizing sewer network design. Design being finalized. • Railway NoC in process – Minister level meeting conducted at Palakkad Collectorate on	in progress. • KRFB NoC received. • Railway NoC and PWD NoC in process. • Beneficiary meeting convened by Municipality on 16.12.2024. • First bill in process. • Pile cap & grade beam reinforcement for SBR-1 tank completed. Epoxy coating work in progress. Steel work of grade beam & pile cap completed. • The reinforcement work for the SBR-2 tank grade beam & pile cap in progress. Up to raft beam bottom concrete completed. • KRFB NoC – received. As decided in KIIFB MLA review meeting, contractor to submit network plan up to Taluk hospital to KRFB. • PWD NoC – Contractor submitted revised drawings as directed by CE, PWD Roads to PWD section Office, Ottappalam – In process. • Project Director met PWD	

					20.06.2025. Railway sought 1-month time. Joint inspection done by Railways, IKL and LB.	Roads & Bridges EE for expediting NoC.	
16	FSTP at Yakkara, Palakkad Municipality (AMRUT-1.0)	Palakkad Municipality/ AMRUT	0.1	75%	Site clearance, electrical connection and temporary labor shed construction works are ongoing.	Working is hindered due to rain.	31.07.2025
MALAPPURAM							
17	STP at Pambad Housing Colony Malappuram Municipality, Malappuram		0.110		99%	Civil work and mechanical work completed. 3 phase electricity connection work progressing.	30.12.2024
18	STP at District Hospital, Tirur, Malappuram		0.5		10%	Work started.	30.12.2025
19	Eco Friendly waste water Treatment plant 10 KLD in vettam Community Health centre , Tirur BP		0.01		25%	Work started. Agency needs some clarification from SM.	30.12.2025
KOZHIKODE							
20	Wastewater treatment plant at Kuttiyadi government taluk hospital, Kozhikode		0.080		98%	Physical work completed. Electrical work pending	Completed
KANNUR							
21	Sewage Treatment Plant 20 KLD at Shopping Complex cum multiplex Theatre, Kallumutti, Irutti Payam, Grama Panchayath1, Kannur		0.02	2%	Amount transferred to KWA on 26.02.2024. Tendering process will start soon.	Estimate prepared. Tendered with last date on 21.12.24 2 offers received. Tender under process. Detailed Estimate is under preparation for tendering	31.12.2025
22	STP for Convention Centre, Pinarayi Grama Panchayath, Kannur		0.02	95%	DPR under correction Stage	Now DPR correction progressing.	30.11.2025
23	FSTP at Chelora, Kannur Corporation (AMRUT-	Kannur Corporation/	100 KLD	86 %	NA	Installation of electrochemical	31.07.2025

	1.0)	AMRUT				components to be done. Working is hindered due to rain.	
WAYANAD							
24	Construction of 45 KLD waste water treatment plant at Kalpetta Government Ayurveda Hospital DP , Wayanad		0.045	65%	District panchayat Wayanad terminated existing agency M/S Ram biological confirmed implementation of projects.	Remaining works to be tendered after the spillover.	31.12.2025

Details of proposed ETPs/ STPs in the State

No.	Location	Implementing Agency	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded)	Status of Project (in Detail)	Incremental progress	Likely Date of Completion of DPR Preparation/ Tendering
THIRUVANANTHAPURAM							
1	STP at Rajaji Nagar, Thiruvananthapuram Corporation	AMRUT	0.5	Tendered:	STP: Eight families to be shifted from one of the proposed STP locations for starting the works. Quotations for the construction of temporary sheds for shifting the families were called for by the ULB with 25/06/25 as the last date of submission but no offers were received. Hence, quotations to be called for again by the ULB.	Sewer Network: The Urban Grey Water Solutions submitted the modified report based on the finalized locations on 13/06/25 and the estimate on 20/06/25. TS is to be issued.	31.03.2026
2	ETP at KSRTC Depot, Thampanoor, Thiruvananthapuram (AMRUT-2.0)	KSRTC	0.02	AS issued	Provide DPR to them for issuing TS.	The SHPSC held on 07 & 20/02/25 approved the issuance of AS and G.O dated 22/03/25 was issued. The KSRTC requested (letter dated 21/04/25) Sucitwa Mission to issue TS. The	31.03.2025

						Suchitwa Mission requested (letter dated 27/05/25) KSRTC to submit the DPR on 21.06.2025. The estimate is to be submitted.	
KOLLAM							
3	CHC Sooranadu, Sasthancotta Block Panchayath, Kollam		0.028	At Tendering Stage		LSG planning to tender for DPR preparation. Tendering process for DPR preparation is in progress. Revision needed in the next DPC. DPC approved. Tendering process is progressing. Project spillover for further process.	31.12.2026
4	Waste water Treatment (90 KLD) System for coastal housing and Tsunmai resettlement facility at karikuzhi, mayyanad Grama Panchayath , Kollam		0.09	At DPR Stage		Transferred to KIIFB	31.12.2025
PATHANAMTHITTA							
5	Taluk Hospital Thiruvalla , Thiruvalla Municipality, Pathanamthitta		0.225	Tendering stage	TS issued. Tendering Documents submitted to State Suchitwa Mission for verification.	Tender processing going on.	31.12.2026
6	Taluk Hospital Thiruvalla ,Thiruvalla Municipality, Pathanamthitta		0.09	DPR Stage	Under technical scrutiny		31.08.2026
ALAPPUZHA							
7	STP with Septage Cotreatment	Kerala Water Authority/ AMRUT	5	DPR Approved	The Tranche-3 projects were	AS dated 22/03/25	31.03.2027

	Capability at Alissery, Alappuzha Municipality (AMRUT-2.0)				finalized in the SHPSC held on 02/08/24. The Tranche-3 proposals inclusive of this proposal were submitted to MoHUA on 24/08/24 for approval. MoHUA's approval was received on 01.10.2024.	was issued. TS to be issued by KWA. Survey completed and the TS estimate is being prepared by KWA.	
8	Sewerage system for Haripad municipality(Kottathara Zone) with STP of capacity 4.2 MLD		3.8		DPR Submitted to Government of Kerala and RKI for AS on 01.09.2022	DPR submitted, Municipality decided to change it to FSTP. Land transfer process going on	31.12.2026
9	STP at Bhajanamadom Colony, Alappuzha Municipality (AMRUT-2.0)	AMRUT	0.012	DPR Stage	The Tranche-3 projects were finalized in the SHPSC held on 02/08/24. The Tranche-3 proposals inclusive of this proposal were submitted to MoHUA on 24/08/24 for approval. MoHUA's approval was received on 01.10.2024. The ULB will engage TAGS Forum as DPR preparation agency of the project only after the ownership of the land for the STP is transferred to the ULB by the Bhajanamadom Church. The DPR to be submitted by the ULB for placing in the SLTC/SHPSC for approval of AS.	The ULB will engage a DPR preparation agency only after the proposed land for the STP is relinquished by the Bhajanamadom Church. The church authorities are not willing to relinquish the land but they are willing to give NoC to the ULB for implementing the project. The ULB has informed the Bhajanamadom Church authorities that the project will have to be cancelled if the land for the STP is not relinquished to the ULB.	31.12.2026

KOTTAYAM							
10	Taluk Hospital Pampady, Pampady Block panchayat, Kottayam		0.085	Tendering stage	TS received in progress. KSPCB consent to establish proceedings in progress. Tendering will be done after the approval of spill over projects by DPC	Tendering will be done after the approval of projects by DPC. PCB approval pending.	31.07.2026
11	ETP at Kodimatha, Kottayam Municipality		0.030	At DPR Stage	- Process flow approved. - DPR to be modified by the agency.	Technical Sanction issued on 07.02.2025. Manual TS obtained.	31.12.2025
12	FSTP at Vellor GP			DPR stage	Land permission received		31.12.2026
13	FSTP at Manganam			DPR stage	O&M cost approved by local body.		31.12.2025
IDUKKI							
14	STP for Idukki district hospital and district Ayurveda hospital, Thodupuzha municipality, Idukki		0.205	Tendered	Project modified as STP for Thodupuzha district hospital. SM verified the DPR under verification by State Mission	Correction not yet submitted by agency.	30.06.2026
15	STP at private bus station, Kothayikkunnu, Thodupuzha municipality Idukki		0.03	Tendering stage.	TS issued. Tendering works in progress.	TS issued for electrical works. Technical Sanction of mechanical items needs to be issued. Will retender soon.	31.12.2025
16	Erumeli FSTP				- Meeting conducted by Special Secretary on 09.06.2025, decided to entrust the project to IKL. - DPR shared by SM, Council resolution and soil report received on 18.06. 2025. Technical sanction given by SM.	- IKL placed it before the Technical Committee on 04.07.2025 and decided to proceed with tender formalities - MoU signed on 16.07.2025 .To be tendered.	
ERNAKULAM							
17	4 STPs are coming up under the KMRL's Integrated Water		77		Tendering stage Funding sanction for Rs 341.97 crores received from KIIFB	DPR for sewerline at Muttar, Pera ndoor, Venna la,	31.09.2026

	transport System project at				on 07.06.2023 DBOT tender published on 17.10.2023. Technical bid opening on 08.01.2024 DPR submitted at KIIFB. Expected funding sanction in upcoming KIIFB meeting. Tendering will be commenced after funding and technical sanction.	Elamkulam forwarded to Ministry of Jalasakthi vide letter dated 31/01/2023f or funding under NRCP. KIIFB issued provisional sanction for funding the project.	
	Elamkulam(17.5 MLD),						
	Vennala(24MLD)						
	Muttar(16.5 MLD)						
	Perandur(19 MLD)						
18	STP with Septage Cotreatment Capability at Elamkulam, Kochi Corporation	AMRUT/Kerala Water Authority	5	To be Tendered	The 5 th SHPSC held on 02/03/23 approved the issuance of AS and G.O dated 25/03/23 was issued. KWA split the work into 5 sub works and issued TS. Later the KWA decided to combine the proposals under AMRUT-2.0 & KMRL. In the meeting held by the Hon'ble Minister of LSGs on 24/07/24 the KWA was directed to go ahead with the proposal under AMRUT-2.0 instead of the combined proposal involving KMRL. TS was issued by KWA for the STP package on 02.12.2024 with 01.01.2025 as the due date. Three bids received and are under technical scrutiny.	STP: LoA issued to L1 bidder. The L1 bidder has given a case against the security deposit demanded by the KWA and the decision of the court is awaited. The agreement execution is delayed due to this. Sewer Network: Revised TS of the sewer network package is to be issued by the PPD & WASCON Wing of KWA.	31.12.2026
19	ETP for slaughter house, Marakkadavu, Ernakulam		0.030	DPR Stage		DPR under correction by the agency. Consent from the KSPCB is not yet to be received due to the less availability of land. Consent pending.	31.08.2026
20	CHC Kadayiruppu, Vadavucode Block Panchayat,		0.025	DPR Stage		LB preparing estimate in Price	31.08.2026

	Ernakulam					software. DPR under correction by the agency.	
21	FSTP at Brahmapuram, Kochi Corporation (AMRUT-2.0)	AMRUT/ Kochi Corporation	1	DPR Approved	The Tranche-3 proposals were discussed in the Apex Committee of MoHUA held on 23.09.2024 and approval is awaited. AS will be issued after getting MoHUA's approval. MoHUA's approval was received on 01.10.2024. The ULB has engaged IRTC to execute the work in DBOT mode	AS dated 22/03/25 was issued. TS to be issued. The vetted design has been obtained from CUSAT. TS estimate to be placed in the technical committee for approval.	31.03.2027
22	Muvattupuzha Municipality's FSTP Project		50 KLD		- DPR Submitted to RKI for AS on 13.11.2024 in advance. - Vide Lr.No.PP1/100/2024-LSGD dated 27.01.2025 from LSG(PP) Dept.informed that RKI has expressed its inability to take up the project. - Land conversion required.	Informed municipality to forward Council resolution to proceed with KIIFB funding. Chairman informed that LB may drop the project as the proposed plant is in wetland.	30.03.2026
23	North Paravur FSTP				- Agreement executed with M/s Urban Grey Water solutions for DPR preparation 19-Nov-2024. Agency visited the Municipality. Identified land is near Periyar river. - Two sited identified; LB has to finalize the site. - PCB rejected the site identified by the Municipality as it was near the river. LB has 2.5 acres of dumping yard, machines arrived for biomining the area which may take 3 months to complete.	The steering committee will study the possibilities to implement the STP/FSTP plant there, LB has to consider public protest too. Later the proposal will be included as agenda for council approval. LB has to decide and inform IKL. PCB visited the site and	30.05.2026

					In the review meeting held by Principal Director on 05.06.2025, LB informed that the biomining site may be used for the proposed FSTP. Municipality has to submit council resolution regarding site change and to proceed with soil test after completing biomining at the earliest. Consultant will initiate survey at this location.	directed the municipality to submit some details (plan, capacity lay out and design details)	
24	Chittur Thathamangalam				- Agreement executed with M/s Urban Grey Water solutions for DPR preparation 19-Nov-2024. Agency visited the Municipality. - Local body to initiate steps in carrying out the soil investigation. Consultant submitted a quotation for soil test. Local body to approve. - Contour survey completed. Design work in progress. - Public protest at site during soil test. Collector visited the site & directed to provide police protection. Soil test conducted on 29.04.2025. - Contour survey completed, DPR submitted by the consultant. - Technical presentation done before IKL technical committee on 04.07.2025. - DPR to be modified as per technical committee	Work order issued for conducting soil test. Soil test will be done within 2 days. Contour survey completed, Design work in progress. Public protest was there at site during soil test. Dist. Collector directed the LB to provide police protection during soil sample collection.	31.12.2026

					comments.		
THRISSUR							
25	STP with Septage Cotreatment Capability at kottapuram, Thrissur Corporation (AMRUT-2.0)	Kerala Water Authority/ AMRUT	5	DPR Approved	The Tranche-3 proposals were discussed in the Apex Committee of MoHUA held on 23.09.2024 and approval is awaited. AS will be issued after getting MoHUA's approval. MoHUA's approval was received on 01.10.2024. The DPR of the project submitted by the ULB is to be placed in the next SLTC / SHPSC for approval of AS. The SLTC held on 07 & 20.02.2025 directed the ULB to resolve the public protest or identify alternative land or submit a replacement sewage/septage management project by 31.03.2025; otherwise, the amount set aside for the project will be reallocated for the projects in buffer list (WS projects) of AMRUT-2.0.	Action to be taken by the ULB to comply with the decision taken by the SLTC/SHPS C. Due to public protest the ULB wants to combine this project with the Kokkala STP project and construct a common STP at Kokkala. Approval is to be obtained from the Agriculture Dept. to convert the proposed land for the Kokkala STP.	31.03.2027
26	STP at Athani, Wadakkanchery Municipality, Thrissur (PRS)		350 KLD STP		Site identified. DPR under preparation	DPR approved by RKI	31.12.2026
27	STP at Kokkala, Thrissur Corporation (AMRUT-2.0)	Thrissur Corporation/ AMRUT	2.5	AS Stage	The Tranche-3 proposals were discussed in the Apex Committee of MoHUA held on 23.09.2024 and MoHUA's approval was received on 01.10.2024. Since the Agriculture Dept. rejected the ULB's request to convert the proposed land for the STP, way forward is to be decided by the ULB (i.e. get the approval of Agriculture Dept. or find alternative land). The SHPSC held on 07 & 20.02.2025 directed the ULB to	The ULB has submitted the technical details of the proposed STP to the District Collector on 22.02.2025. Report in this regard to be given to the Govt. by the District Collector. Based on the joint report, the District Collector has	31.03.2027

					submit the technical details of the STP to the District Collector for furnishing a report to the Govt. for taking an appropriate decision on allowing the ULB to construct the STP at the proposed location.	recommended (letter dated 25/03/25) to the APC and the Principal Secretary, Agriculture Dept. that the sanction can be given to convert the proposed land for the STP. The decision of the Agriculture Dept. is awaited regarding the conversion of the proposed land for the STP.	
28	STP at Wadakkanchery Municipality, Thrissur (PRS)	IMPACT KERALA Ltd		DPR Stage	Initially planned at Puramboke land. NOC to be obtained from district collector. Now municipality planning for decentralized plants at different locations which needs to be finalized in consultation with PCB. Municipality to submit DPR accordingly. Not yet submitted.		
29	Pazhayanoor STP (Thrissur)		0.45 KLD	Work awarded	Design vetted by Sewerage Circle, Kochi. Work to be started by the contractor	Work ongoing.	31.12.2026
30	General Hospital, Irinjalakuda Municipality, Thrissur (PRS)		0.150	TS received		TS Received, Work to be started soon.	31.12.2026
31	35 KLD STP at Ramavarma District ayurveda hospital, Thrissur		0.035	DPR Stage		No decision taken to revise DPC for changing implementing officer.	31.12.2026
32	FSTP at Ramavarma puram, Thrissur Corporation	Thrissur Corporation/ AMRUT	0.1	Work Awarded	Due to public protest the bridge work has been stopped on 03.07.2024 and the FSTP work couldn't be started. The Joint Director,	In the meeting held by the District Collector on 30.01.2025 involving	31.03.2026

					Thrissur, held a meeting with the public at the site on 28.10.2024. Agreement dated 04.01.2024 was executed. The bridge work (for access to the site) was started on 18.06.2024. The bridge work was stopped on 04.07.2024 due to public protest. The Joint Director, Thrissur held a meeting with the public at the site on 28.10.2024 but the issue could not be solved.	the representatives of all political parties it was decided to shift the project to the land given to IMA. A meeting involving ministries to be convened jointly by the Hon'ble Mayor and the District Collector to finalize the land.	
33	STP at Ottuppara Market, Wadakkanchery Municipality, Trissur (IMPACT KERALA Ltd) (PRS)	IKL	18 KLD STP		DPR submitted to KIIFB as a part of the project "Modernisation of Ottuppara Market in Wadakkanchery Municipality"	Under design review by KIIFB	30.06.2026
34	STP at Athani market, Wadakkanchery Municipality, Trissur (PRS) (IMPACT KERALA Ltd)	IKL	13.9 KLD STP		DPR submitted to KIIFB as a part of the project "Modernisation of Ottuppara Market in Wadakkanchery Municipality"	Under design review by KIIFB	30.06.2026
35	Waste water treatment plant at K R Narayanan memorial hall, Adat GP		0.0065	DPR stage		TS issued. As AS amount is less, revised AS is needed.	31.12.2025
36	ETP of 2 KLD at Konnamkulam Milk Production Cooperative Society		0.002	DPR stage		Under technical scrutiny	31.08.2026
37	Augmentation of existing 3 MLD STP at Chakkamkandam to 5 MLD with Septage Cotreatment Capability, Guruvayur Municipality (AMRUT-2.0)	Kerala Water Authority/ AMRUT	2	DPR stage	The Tranche-3 proposals were discussed in the Apex Committee of MoHUA held on 23.09.2024 and approval is awaited. AS will be issued after getting MoHUA's approval. MoHUA's approval was received on 01.10.2024. The DPR was placed in the SHPSC held on 07 & 20.02.2025 and	In the meeting held on 04/03/25 the KWA agreed to modify the DPR (inclusive of septage cotreatment) as suggested by the ULB. The modified DPR is to be submitted by	31.03.2027

					the committee accorded sanction for issuing AS. Minutes of the meeting to be approved and the Govt .order to be issued.	the PPD & WASCON wing of KWA for placing in the SLTC/SHPS C for approval of AS.	
PALAKKAD							
38	Sewerage scheme in Shornur Municipality consisting of sewage network and FSSM with 2.5 MLD capacity STP with co-treatment unit, Palakkad		2.5 MLD	DPR stage		DPR Submitted to Govt and RKI for AS on 16.2.23 and now it is revising as per the direction of SBM 2.0, but ULB move for FSTP	31.12.2026
39	STP for Municipal Buildings, Palakkad Municipality (AMRUT-2.0)	Palakkad Municipality/ AMRUT	0.030	AS to be Issued	The Tranche-3 proposals were discussed in the Apex Committee of MoHUA held on 23.09.2024 and approval is awaited. AS will be issued after getting MoHUA's approval. MoHUA's approval was received on 01.10.2024. The council held on 17/12/24 gave approval to call for Expression of Interests (Eol) for executing the project in the DBOT mode. The DPR to be prepared for placing in the SLTC/SHPSC for approval of AS. The DPR to be submitted by the ULB for placing in the SLTC/ SHPSC for approval of AS. The Eol was called for by the ULB on 01/03/25 and with 12/03/25 as the due date.	Three bids received. Technical committee of the ULB is scheduled in the 1 st week of April for the scrutiny of bids. LoA issued to L1 (Auxira) on 29/04/25. The agreement is to be executed. The DPR is to be submitted by the contractor to the ULB for placing in the SLTC/ SHPSC for approval of AS. The L1 bidder has not yet executed the agreement. The ULB has informed the L1 bidder that if the agreement is	31.03.2027

						not executed within the 1st week of Jul-2025, the ULB will issue LoA to the L2.	
40	CHC Alathur, Alathur Block Panchayat , Palakkad		0.090	DPR Stage		A meeting with district mission with regarding to the DPR is planning.	31.12.2026
41	FSTP at Shornur					Railway land to get. Application submitted.	30.06.2026
42	Shornur FSTP with grey water management				• Agreement executed with M/s Urban Grey Water solutions for DPR preparation 19-Nov-2024. Agency visited the Municipality. • Local body to initiate steps in carrying out the soil investigation. Consultant submitted a quotation for soil test. Local body to approve. • Contour survey completed. Design work in progress.	Soil test done. DPR in progress. Meeting with SM & Municipality conducted on 25.04.2025 for finalization of DPR. DPR being finalized. As per decision of meeting b/w consultant, LB and SM, Consultant submitted process flow to LB for Suchitwa Mission approval & LB to submit council decision for 50 KLD with GWM. DPR submitted by consultant. Technical presentation done before IKL technical committee on 04.07.2025. DPR to be modified as per technical	31.12.2026

						committee comments.	
MALAPPURAM							
43	Sewage Treatment Plant and Sewerage System for Ponnani Municipality (Harbour Zone)		7.12		DPR in PRICE 3 Submitted to Govt and RKI for AS on 17.10.2022	DPR submitted to Gok for AS. But AS not received.	31.12.2026
44	Sewerage system for Ponnani municipality(Kottathara Zone) with STP of capacity 4.2 MLD		4.2		DPR Submitted to Government of Kerala and RKI for AS on 20.10.2022	AS expected from GoK/RKI and it is revising as per direction of SBM 2.0	31.12.2026
45	STP at District Hospital Peruntholman, District Panchayath, Malappuram		0.200	DPR Stage		Even after multiple revised submissions, DPR is of inferior quality. Hence LB is going to find another competent agency. Necessary instructions were given to the LB.	31.10.2026
46	Eco-Friendly wastewater Treatment Plant (140 KLD) for Women and Children Hospital Ponnani Municipality, Malappuram		0.14	Tendering stage	Total fund deposited to KWA by the LB. Work yet to start. Land finalized.	Tendering procedure yet to start. KWA DOES NOT TAKE ANY ACTION AFTER TRANSFERRING HUGE AMOUNT OF FUND(Total fund deposited to KWA by the LB. Work yet to start. Land finalised. Tendering procedure yet to start)	31.12.2026
47	ETP at Tirur Municipality		0.060	DPR Stage		LB to submit the revised DPR with revised DPC form	29.07.2025
48	ETP at Tirur Municipality Slaughter house		0.030	Tendering Stage	Due to strong public opposition to the proposed	Paused due to public protest.	31.08.2026

					slaughterhouse, work has been halted. The local body will issue a letter to the government regarding the public protest.		
49	FSTP at Perinthalmanna	Aquatechnics Water Treatment Technologies Pvt. Ltd. Ernakulam			Earlier identified site(near to Solid waste management) not feasible.	Site to be identified	31.12.2026
50	FSTP at Valancheri	IRTC- PIUMUNDUR				TS issued on 28.11.2024 by Suchithwa Mission. Draft agreement under verification by the Local Body. The agency requested for mobilization fund. Currently under process.	30.12.2025
KOZHICODE							
51	STP with Septage Cotreatment Capability at Sarovaram, Kozhikode Corporation	AMRUT/ Kerala Water Authority	27	To be tendered	KWA had sought clarity from ULB regarding the possibility of getting CRZ clearance as the reduction in the area available will lead to reduction in the STP capacity and reworking of the estimate. The ULB has directed KWA to go ahead with the project without reducing the STP capacity under the assumption that the permission will be obtained from the KCZMA as per the CRZ rules (as per the latest rules, public utilities are allowed in CRZ-1). In the meeting held by the Hon'ble Mayor on 06/01/25, the KWA was directed to go ahead with the project without reducing the STP capacity under the assumption that the permission will be	KWA retendered the work on 03/04/25. Tender was opened on 02/05/25. Six bids received and are under scrutiny in KWA. Prequalification process is in progress in KWA. Financial bid to be opened.	31.12.2026

					obtained from the KCZMA as per the prevailing CRZ rules (as per the latest rules, public utilities are allowed in CRZ-1).		
52	STP at Avikkal thodu, Kozhikode Corporation (AMRUT-2.0)	Kozhikode Corporation/ AMRUT	7	DPR Stage	The Tranche-3 proposals were discussed in the Apex Committee of MoHUA held on 23.09.2024 and approval is awaited. MoHUA's approval was received on 01/10/24. An EoI for executing the work in DBOT mode was floated by the ULB on 30/10/24 with 20/11/24 as the last date of bid submission. The due date of EoI was extended till 10.12.2024 as per the request of the prospective bidders. Two offers received. The Council held on 21.12.2024 approved the formation of a technical committee for scrutiny of bids.	Even though the SIDCO objected the construction of the STP in the West Hill Industrial Estate, the ULB is going ahead with the project and has issued LoA on 18.02.2025 to KCCL & AIPPL - JV). Agreement will be issued after the AS is accorded. The contractor has agreed to submit the DPR within 2 months (by 30.04.2025) for placing in the SLTC/ SHPSC for approval of AS.	31.03.2027
53	STP at Kothi, Kozhikode Corporation (AMRUT-2.0)	Kozhikode Corporation/ AMRUT	6	DPR Stage			
54	Construction of 7ML D capacity Sewage Treatment Plant and Laying Sewerage Network to Vatakara Municipality, Kozhikode		7ML D	DPR stage	DPR Submitted to Govt and RKI for AS on 14/02/2023		30.04.2026
55	Kozhikkode corporation Zone F		4 MLD	DPR stage		Submitted to Govt and RKI for AS on 29.09.2022	30.06.2026
56	STP at Vadakara Municipality, Kozhikkode	IMPACT KERALA Ltd	0.5 MLD Sewage TP 20KLD FSTP 20KLD	DPR stage	Narayana nagaram – Land was 'Nanja'. Permission received vide G.O(MS)No.88/2024 /AGRI dated 13.08.2024 received	Under KIIFB appraisal	Land Issue. Land Conversion process ongoing

					from Agriculture (NCA) Department regarding land conversion. Consultant submitted modified DPR with TAR reply, submitted to KIIFB.		
57	10 KLD Sewage Treatment Plant at EMS Memorial Municipal Town Hall, Koyilandy Municipality, Kozhikkode		0.01	Tendering Stage		All fund transferred to KWA. KWA site visited.	30.06.2026
58	ETP at Govt Ayurvedic Hospital, Talayad, Panangad Grama Panchayath, Kozhikkode		0.03	TS issued		TS issued.	31.12.2025
KANNUR							
59	Thalassery, Kannur		22	DPR Stage		DPR Submitted to Govt and RKI for AS on 28/11/2022	30.10.2026
60	Kannur corporation Zone 1		13	DPR Stage		DPR Submitted to Govt and RKI for AS on 25/11/2022	30.10.2026
61	Payyannur, Kannur		13 MLD	DPR Stage	MoHUA's approval was received on 01.10.2024. The DPR of the project is expected to be submitted by 30.11.2024 for placing in the SLTC / SHPSC for approval of AS.	DPR Submitted to Govt and RKI for AS on 25/11/2022	30.10.2026
62	STP with Septage Cotreatment Capability at Maithanappally, Kannur Corporation (AMRUT-2.0)	Kerala Water Authority	5	AS to be Issued	The Tranche-3 proposals were discussed in the Apex Committee of MoHUA held on 23.09.2024 and approval is awaited. AS will be issued after getting MoHUA's approval. MoHUA's approval was received on 01.10.2024. The DPR to be submitted by the ULB for placing in the SLTC/SHPSC for approval of AS. The Council held on	The DPR was placed in the SHPSC held on 07 & 20.02.2025 and the committee accorded sanction for issuing AS. AS dated 22/03/25 was issued. TS to be issued by KWA. The Council held on	31.12.2026

					16.11.2024 suggested certain modifications and the DPR is to be modified by KWA accordingly.	28/04/25 decided that the project will be implemented by the ULB instead of KWA. The request of the ULB to execute the project in the DBOT mode on their own instead of KWA is to be placed in the next SLTC/ SHPSC for approval.	
63	STP at Palayad, Taliparamba municipality, Kannur		1	DPR Stage	Approval for land purchase from weaver's society is under process. Decision for the land purchase is pending.	Land transfer consent from Industries department is not received.	31.12.2026
64	STP at hospital, Pazhayangadi, Kannur		0.120		At tendering stage Project vetting completed. Agency submitted a rough cost estimate for electrical components TS issued.	Requested for Urban Agglomeration fund for the project , It is not confirmed yet.	31.12.2026
65	STP at old age home, Kannur		0.010		Tendering Stage	TS issued	31.06.2026
66	DPR for perumba fish market Payyanur Municipality, Kannur		0.01	Work tendered	New DPC project form taken and balance amount will be transferred to KWA from Municipality as they receive the fund. The fund will be dispersed after allotment of CFC fund. CFC fund was not allotted so far, so CFC was unable to transfer Work Awarded the fund. to IRTC. Council Decision not yet taken by ULB for work Agreement.	Estimate under preparation. Rs.66.5 lakhs deposited to KWA. Municipality to deposit the balance amount of Rs24 lakhs. KWA is working on DPR. Fund transferred by Municipality to KWA.	
67	FSTP at Valliyayi, Mokeri GP				DPR under correction by the agency	Revised DPR received. Further process	31.09.2026

						going on.	
WAYANAD							
68	65 KLD Sewage Treatment Plant at Taluk Head Quarters Hospital Vythiri, Kalpetta Block Panchayat, Wayanad		0.065	At DPR Stage	M/s Ram Biologicals attended Suchitwa Mission to discuss the corrections in DPR. Agency to submit the revised DPR to LB.	DPR under revision by the agency.	31.12.2026
69	Mananthavady, Wayanad		2 MLD	DPR Stage		Submitted to Govt and RKI for AS on 29/09/2022	31.12.2026
KASARGOD							
70	200 KLD Wastewater treatment plant at Tata Trust Govt Hospital, Kasargod		0.2	DPR Stage		Local body decided to hand over the work of DPR preparation to another agency	31.12.2026
71	Kasargod Zone 1		4 MLD		At DPR stage	Private land identified . Action to be taken from land acquisition	31.12.2026
72	Kasargod Zone 2		4 MLD		At DPR stage	DPR Submitted to Govt and RKI for AS on 23/11/2022	31.12.2026
73	Taluk Hospital , Neeleswaram Municipality Kasaragod		0.040		At tendering stage	The tender-qualified agency is unwilling to accept the work. Hence action for council approval is being taken for arranging the work through accredited agency. Requested for advance payment. Waiting for the fund.	31.12.2026
74	50 KLD Capacity decentralized sullage Treatment plant at Uppala Town Mangalpadi, Kasaragod		0.05	DPR Stage	- DPR have to be modified to include sewer networks - The sewer network survey has been completed and DPR has been prepared.	DPR revision under process. Process flow approved. Revised	31.12.2026

						DPC form received. As the rate got changed from DSR 2018 to DSR 2021, revised estimate to be received from LB.	
75	CHC, Mangalpady, Manjeshwar Block Panchayath, Kasragod		0.014	DPR tendering Stage	New project taken. Project revised as Mangalpady taluk hospital. DPC approved. DPR preparation by the agency DPC approved. DPR preparation delayed due to fund ambiguity for STP at Gram Panchayats	DPR preparation delayed due to fund ambiguity for STP at Gram Panchayats. DPC Approved project.	31.07.2026
76	FSTP at Manjeswaram, Manjeswaram GP				DPR under preparation. Tendering process will start after the Election procedures.(06.06.2024)	TS issued	31.12.2025

Proposed Sewerage System

1	Sewerage system for Thiruvananthapuram Corporation- Cluster 1 Attukal, Ambalathara, Kaladi, Kalipankulam&Kamaleswaram		7.0(for utilizing existing 107 MLD)		DPR in PRICE 3 Submitted to Govt and RKI for AS on 15.10.2022		
2	Preparation of DPR for proposed sewerage system to the Madhippuram colony and surrounding areas near Vizhinjam Harbour, TVM		5				
3	Detailed Engineering Report for Sewerage Scheme in Neyyattinkara Zone I, TVM		2.5 MLD				
4	Detailed Engineering Report for the Sewerage scheme in Alappuzha Municipality with ST P – Phase 1		5 MLD		At DPR stage		

5	Detailed Engineering Report for the Sewerage scheme in Haripad Municipality - Sewage Treatment Plant of Capacity 2.6 MLD- Phase 1 and Sewerage Network of Length 58km - Phase 2, Alapuzha		2.6 MLD				
6	Comprehensive sewerage scheme- Government medical college, Kottayam		5 MLD		At DPR stage		
7	Sewerage System for Kattappana Municipality		1.76		DPR Submitted to Government of Kerala and RKI for AS on 19/09/2022		
8	Detailed Engineering Report for Sewerage Scheme in Kalamassery Municipality-Phase-1, Kochi		2.6 MLD		At DPR stage		
9	Sewerage System for Aluva -Zone 1		1.72		DPR Submitted to Government of Kerala and RKI for AS on 19.09.2022		
10	Sewerage system for Pattambi municipality		5.4		DPR Submitted to Government of Kerala and RKI for AS on 06.08.2022		
11	Sewerage system for Ponnani municipality(Kottathara Zone) with STP of capacity 4.2 MLD		4.2		DPR Submitted to Government of Kerala and RKI for AS on 20.10.2022		
12	Decentralized Sewerage Scheme (STP at Kokkala), Thrissur Corporation (AMRUT-2.0)		2.5	AS to be Issued	The ULB was directed to submit the technical details of the STP to the District Collector for furnishing a report to the Govt. for taking an appropriate decision on allowing the ULB to construct the STP at the proposed location. The decision on according AS for the project will be taken by the SLTC/SHPSC based on the decision taken by the Govt.	The SHPSC held on 07 & 20.02.2025 directed the ULB to submit the technical details of the STP to the District Collector for furnishing a report to the Govt. for taking an appropriate decision on	31.12.2026

					The ULB submitted the technical details of the proposed STP to the District Collector on 22/02/25.	allowing the ULB to construct the STP at the proposed location. The decision on according AS for the project will be taken by the SLTC/SHP C based on the decision taken by the Govt. The ULB has submitted the technical details of the proposed STP to the District Collector on 22.02.2025. Report in this regard to be give. As directed by the District Collector, a joint inspection was held on 10/03/25 involving officials of KLDC, Irrigation Dept., Agriculture Dept., & ULB, and a joint report was submitted to the District Collector on 17/03/25. Report in this regard to be given to the Govt. by the District Collector.	
13	Sewerage System for Zone-A, Kozhikode Corporation (AMRUT 2.0)		13	AS to be issued:	Due to public protest and the ongoing court cases (there is a stay by the Munsiff Court regarding the Avikkalthodu STP work) the ULB has	Even though the SIDCO objected the construction of the STP in the West	31.03.2027

					proposed to combined the Kothi & Avikkalthodu sewerage projects proposed a 13 MLD STP at a new location (West Hill Industrial Estate).The 12thSLTC held on 11/07/24recommended the proposal to the SHPSC. The Tranche-3 projects were finalized in the SHPSC held on 02.08.2024. The Tranche-3 proposals inclusive of this proposal were submitted to MoHUA on 24.08.2024 for approval. AS will be issued after getting MoHUA's approval. Scrutiny of the 2 bids received is in progress. Permission is awaited from the Govt. for constructing the STP at the West Hill Industrial Estate.	Hill Industrial Estate, the ULB is going ahead with the project and has issued LoA on 18.02.2025 to KCCL & AIPPL-JV) The agreement was executed on 21/05/25. The DPR is being vetted by the Anna University. The DPR submitted by the contractor is to be placed in the next SLTC/ SHPSC for approval of AS.	

Mobile FSTP

No.	Location	Implementing Agency	Capacity of the STP proposed in MLD	Status of Project (in Detail)	Incremental Progress - June	Likely Date of Completion of DPR preparation/ Tendering
1	Mobile Treatment unit – Chalakudy – by BHOUMA ENVIROTECH PVT LTD		0.036	Operational		
2	Mobile Septage Units- 2 nos, Alappuzha Municipality (AMRUT-1,0)	Alappuzha Municipality/ AMRUT	0.02 (0.01 x 2 nos.)	Physically completed.	Both units delivered. Trial run and effluent testing are to be completed by the contractor.	31.07.2025
3	Mobile Treatment Unit - Kodungalloor, Neyyattinkara, Chirayinkeezhu, Kumarakam, Wadakkancherry			proposal stage		

Underground STPs

No.	Projects	Status
1	UG STP for Thavanur Central Prison & Correctional Home, Malappuram Dist.	• Agreement executed with M/s CDD India for DPR preparation on 22-Nov-2024. • Consultant carried out a site visit. • Soil report received from Prison department on 02.06.25. DPR under preparation by CDD India, will be submitted within 19.07.2025. • Clarification required regarding funding & IMPACT centage.
2	UG STP at Parassinikkadavu, Anthur Municipality, Kannur Dist.	• Agreement executed with M/s CDD India for DPR preparation on 22-Nov-2024. • Consultant carried out a site visit. Local Body to initiate steps in carrying out the soil investigation. • Soil report received from LB on 02.06.25. • DPR under preparation by CDD India, will be submitted by 25.07.25
3	Govt. Ayurveda Hospital, Piravom Municipality, Ernakulam Dist.	• Agreement executed with M/s OXIRA Environmental Solutions Pvt Ltd for DPR preparation on 09-Apr-2025. Agency visited the Municipality on 29-Apr-2025, DPR under preparation. • The Local body to carry out soil test and to submit report.
4	3 projects in Alappuzha district i. Civil Station in Alappuzha Municipality ii. Revenue Tower, Taluk Office in Haripad Municipality iii. Taluk Hospital in Haripad Municipality	• RFQ invited for PFR from empanelled agencies with 09.06.25 as last date. 8 quotes received, under evaluation. Placed before the technical committee. Selection notice to be issued. • In the review meeting held by Principal Director on 05.06.2025, directed LB to proceed with soil test.
5	2 projects in Palakkad district i. PHC in Akathethara Grama Panchayat ii.KAP Camp in Puthupariyaram Grama Panchayath	• RFQ invited for PFR from empanelled agencies with 09.06.25 as last date. 8 quotes received, under evaluation. Placed before the technical committee. Selection notice to be issued. • In the review meeting held by Principal Director on 05.06.2025, directed LBs to proceed with soil test.

IV.Details of Industrial Pollution:

- Total registered industrial and non industrial units –**129915**
- Total Effluent and Sewage & Sullage Generating units: 14422 (Large & Medium: 1298; Small: 13124)
- Quantity of Effluent and Sewage & Sullage generated from 14422 units = 178.36 MLD (Large & Medium: 156.3 MLD – mentioned in MPR for the month of Jan, 2021; Small: 22.059 MLD)
- Total Effluent Generating units = **187** (As per online consent system)
- Quantity of Effluent generated from **11738** [11551 (As per Dossier: As on 2020) + 187 (As per online consent system)] units = **111.8818** MLD (107.08 MLD + 4.8018 MLD)
- 15095 consents issued in 2023. More industries are brought under consent purview
- OCEMS facility provided in 48 industries and is linked to the SPCB/CPCB servers. In case of exceedance follow up is done.
- Number of industrial units connected to CETP: As per the available data – 95 nos

Number and total capacity of CETPs (details of existing/under construction /proposed)

- 11 nos of CETPs are functional (Total Capacity – 9.545 MLD)
- Proposed CETPs –3 nos. (Total Capacity- 3.12 MLD).

Details of existing/under construction/proposed CETPs in the State						
CETP Name	Treatment Capacity	Operational Capacity	Status(Whether Operational or Non operational)	Number of member units	Number of complying units	Whether complying with parameters
Kinfra Apparel Park, St.Xavier's College P.O, Thumba, Thiruvananthapuram	4.5 MLD	4.5 MLD	Operational	10		pH- 7.4, TSS – 20 mg/l, BOD – 1.1 mg/l, COD – 92 mg/l, O & G – 2.1 mg/l , FC-NIL as per analysis report dated 05.07.2025.
CETP,KINFRA,Elamannoor, Pathanamthitta	0.22 MLD	30 Cubic metre per day	Operational	4	4	pH - 7, TSS - 80, BOD - 12, O&G - 1.2,COD-64 as per analysis report dated 19.12.2024
KSIDC Mega Food Park, Pallipuram, Cherthala, Alappuzha	2 MLD	0.5 MLD	Operational	6		pH-7.8 mg/L, BOD-10 mg/L, SS- 10 mg/L O&G-BDL , as per analysis report dated 16.01.2025
Sea Food Park (India) Ltd., Aroor, Alappuzha	0.3 MLD	0.3 MLD	Operational	10		pH-7.9 mg/L, BOD-4.2 mg/L, SS-BDL O&G-BDL , as per analysis report dated 16.01.2025
Kinfra Small Industries Park Nellad, Mazhuvanoor	0.4 MLD	0.4 MLD	Operational	15		pH- 7.09, COD-248 mg/L, BOD-18.37 mg/L, Oil and Grease-BDL, Total Suspended Solids –182.4 mg/L, Fluorides < 1 mg/L, Chlorides-149.9 mg/L, Phosphate – 1.89 mg/L, Nitrate-1.10, Sulphates – 19.78 mg/L, Sulphides – 3.63 mg/l, Ammoniacal Nitrogen – 0.964 mg/l, Phenolic Compounds – BDL, as per

						analysis report dated 05.06.2025 Action is taken for preventing exceedance.
Rubber Park India Private Limited (New Plant), Common Effluent Treatment Plant, 2 A, Kaudileeyam, Rubber Park, Valayanchirangara, Ernakulam- 683556	0.25 MLD	0.25 MLD	Operational	17 Units Dormitory and Canteen		pH- 8.11, COD-40 mg/L, Oil and Grease-BDL, Total Suspended Solids – BDL, TDS –1.31, Chlorides-29.9 mg/L, Sulphates – 28.25 mg/L, Sulphides – BDL, Fluorides < 1 mg/L, Ammoniacal Nitrogen – 0.21 mg/L , Phenolic Compounds - BDL, Phosphates – 0.53 mg/l, Nitrate – 7.8 mg/l and Total Residual Chlorine - BDL as per analysis report dated 10.06.2025 Action is taken for preventing exceedance.
CSEZ, Kakkanad, Cochin Special Economic Zone Ernakulam	1 MLD		Operational	14		- pH-7.1,TSS-BDL , TDS – 378 mg/l, Chloride – 29.7 mg/l, Residual Chlorine – 216 mg/l, phosphate-0.2 mg/l, sulphide-10.88 mg/L , ammonical nitrogen – 0.4 mg/L, BOD-2.2 mg/l, COD-20 mg/l, Sulphate – 15.4 mg/l, Oil & grease – BDL, Phenolic compounds – 0.001 mg/l, Copper- BDL, cadmium - BDL analysis report dated 27.08.2024 - Inspection

						conducted by Board on 14.02.2024. As per the analysis report dated 31.07.2023, all parameters except Nitrates and Phosphates exceeds the prescribed limit. • Meanwhile CSEZ operated a tertiary units (Softner, degaser, RO, MEE etc.) as trial run.
KinfraTechno Industrial Park, Kakkanchery Chelambara P.O, Malappuram	0.675 MLD	0.675 MLD	Operational	17	17	Parameters complied within limits pH – 7.5, BOD – 10 mg/l, COD – 44 mg/l, TSS – 38 mg/l, oil & grease – BDL as per report dated 09.02.2024
Kinfra Textile Centre, Nadukani, Pallivayal P.O, Thaliparambu, Kannur– 670142	0.2 MLD	0.2 MLD	Operational	2	2	pH – 7.6, BOD – 6.69 mg/l, COD – 64 mg/l, Oil & Grease – 11.16 mg/l, TSS – 45 mg/l as per analysis report dated 11.03.2025

CETP- Proposed						
CETP, Industrial department, Aroor	1.5 MLD	Proposed	• GM issued proceedings on 08/01/2024 to resume the 1 acre land from JIS international • The time line now given to the unit for handing over the land to the Industries Department , if it does not start industrial activities in the land, is extended for 6 more months from 19.01.2024.			NA
CETP, Chandiroor	1.5 MLD	Proposed	• Not constructed (Land procured)	Sanctioned Rs. 10 crore in the 2024-25 annual budget for the construction CETP	ACCEPT Environment Solutions have submitted a project proposal.	
KINFRA Spices Park, Muttom, Idukki	0.120 MLD		• ICO issued. CETP is ready to operate		Industries have not started functioning.	

Effluent Treatment Plant

Sl. No	Industry Name	Industry Type	Consumption of water in MLD	Effluent Quantity in MLD	Mode of disposal	ETP Units	Date of monitoring	Limiting Standard	Latest Analysis report	
KOLLAM										
1	Kollam Dairy	Dairy	0.2	0.12	Irrigation and gardenin g	Screen Chamber, Collection Sump, Anaerobic Reactor – I & II, Aeration Tank, Secondary Clarifier, Dual Media Filter, Sludge Drying beds, Treated water pond	19-08-2023	pH 5.5-9, SS-100 mg/L, BOD-30, Oil&grease - 10mg/L	pH-8.5, S.S-85.4, BOD-28, Oil&grease - 0.0317	Parameters are within the limit
PATHANAMTHITTA										
2	Aravinds Car Wash & Detail Centre, Muthoor, Thiruvalla	Automobile servicing				ETP	13.01.2025	pH - 6.5 to 8.5, SS - 50, O&G - 10, COD-150, BOD-30	pH - 7, SS - 6, O&G - 15.2, COD-16, BOD-4	O&G exceeded the limit
3	AVG Motors Pvt Ltd, Mylapra, Pallipadi	Automobile servicing				ETP	13.03.2025	pH - 6.5 to 8.5, TSS - 10, BOD - 3, COD-50, O&G - 1	pH - 7.1, TSS - 24, BOD - 42.24, COD-80, O&G - 39.6	BOD, COD, SS and O&G exceeded the limit
4	Muthoot Motors Cochin Pampady mon junction near Pampady mon Ayyappa	Automobile servicing				ETP	23.01.2025	pH - 6 to 8, TSS - 100, BOD - 30, O&G - 10	pH - 7.1, TSS - 20, BOD - 12, O&G - 9.2	Parameters are within the limit

	temple Kozhenc hery									
ERNAKULAM										
5	Fact Ltd., Petroche mical Division, Eloor, Udyoga mandal	Petroch emical Unit	13.97	5.04	Periyar- downstre am of Pathalam bund	Neutralis ation, Equalisat ion, Bio pond, Guard pond, Final clarifier, Denitrifi cation reactor	25/05/2024	pH - 6.5 - 8.0, nitrates - 20mg/l, free ammonia - 5 mg/l, TKN - 100mg/l, oil and grease - 10mg/l, phenolic compound s - 1mg/l, ammoniac al nitrogen - 50mg/l, SS-30mg/l, BOD - 30mg/l, COD - 250mg/l	pH - 6.67, nitrates - NA, free ammonia - NA, TKN - NA, oil and grease - BDL, phenolic compound s - NA, ammonia cal nitrogen - NA, SS-56, BOD - 12mg/l, COD - 80mg/l	Analy sed para meter s are confo rming to the stand ards.
MALAPPURAM										
6	Jamia Nooriyy a arabic college , pattikka d , perintha lmanna	Educat ional institut ions				soakpit	30.01.2025	PH-6.5- 8.5,BOD- 30,COD- 250,TOTA L SUSPEND ED SOLIDS- 100,OIL AND GREASE- 10	PH-7.2, BOD-16, COD- 104, TOTAL SUSPEN DED SOLIDS- 68, OIL AND GREAS E-BDL	Conf ormi ng
KASARAGOD										
7	Vittal Agro Industrie s	Desicca ted Coconu t Powder Making Unit			Irrigation as far as possible and the rest shall be discharge d into soak pit.	ETP	27.01.2025	pH-6.5- 8.5,BOD- 30,TOTAL SUSPEND ED SOLIDS- 100,OIL AND GREASE- 10 ,COD- 250	PH- 7.48,BO D- 15.9,TO TAL SUSPEN DED SOLIDS- 45,OIL AND GREAS E- 9.88,CO D-32,	Conf ormin g to Stand ards

									NITRAT E-8.92 Sample collected on 27.01.20 25	

Solid Waste Management

- The state has taken strong measures to implement effective waste management systems and enforce regulations designed to streamline the operations. Acknowledging the urgent need for sustainable waste practices, a comprehensive strategy has been developed that encompasses infrastructure improvements, public education initiatives, and the establishment of strict policies. To support this, the Government of Kerala enacted Amendment Ordinances to the Kerala Municipality Act and the Kerala Panchayat Raj Act on December 8, 2023.
- Under the revised legislation, all citizens are required to submit segregated waste to their local body or to an authorized agency for proper scientific processing. Local bodies may also face fines for failing to act in accordance with state government directives. Furthermore, institutions and commercial establishments are now obligated to keep their premises litter-free and ensure that all waste generated is disposed of properly. These activities are closely monitored at both the local and state levels to ensure effective implementation.
- In the state, a total quantity of 10076.17 TPD waste is being generated as per present population, in which 3011.23 TPD of waste is produced in urban and 6561.12 TPD in rural areas, respectively, Approximately 73% of the waste generated is organic material and in the remaining portion, 22% is inorganic waste and 5% reject material. Out of 10076.17 TPD waste generated in the state, 7398.64 TPD is biodegradable waste, 2173.72 TPD is non biodegradable waste and 503.81 TPD is inert.
- The State's policy on biodegradable waste management adopts a decentralized approach, emphasizing source-level treatment of biowaste generated by households. This policy encourages the use of composting devices and biogas plants at the household level to process organic waste, thereby reducing the burden on centralized waste management systems. To address gaps where households may lack capacity, community facilities are

implemented to manage surplus waste. This integrated approach promotes sustainability by minimizing transportation needs, reducing landfill waste, and fostering the production of renewable resources like compost and biogas, while also encouraging community participation and local solutions.

- Dry waste generated from households and institutions is collected and transported to Material Collection Facilities (MCFs) or Resource Recovery Facilities (RRFs), where it is segregated into recyclable and non-recyclable waste. The recyclable waste is sent to recycling units, while non-recyclable waste is directed to co-processing facilities, such as cement plants, for energy recovery. After separating biodegradable and non-biodegradable waste from the total waste generated, the remaining portion, known as inert waste, is utilized to fill low-lying areas, offering an environmentally sustainable method of disposal`

1. BIODEGRADABLE WASTE MANAGEMENT

For biodegradable waste management in the state, various composting devices and biogas units are utilized to manage wet waste at its source. The compost produced from household waste treatment is used as fertilizer for gardening in individual residences. Approximately 80% of the total biodegradable waste generated is managed at the source, while the remaining 20% is handled by community-level facilities operated by local bodies.

Depending on land availability, a range of medium-capacity decentralized composting facilities—such as aerobic compost units, organic waste converters, windrow plants, and biomethanation facilities—have been widely established across Kerala. The compost generated from community facilities is branded and marketed as fertilizer to local farmers through the Krishi Bhavans within the local body. Additionally, centralized facilities, like compressed biogas (CBG) plants, are being planned and implemented to manage waste more economically. Construction of a CBG plant in Ernakulam district has already begun, and six other projects are in the planning stages.

Table 1. Biodegradable Waste Management Facilities in the State

District Name	Total BDW Generation (TPD)	Total capacity of Compost plants (TPD)	Total capacity of Bio-methanation plants (waste to energy in plants) TPD	Total Rendering Capacity (TPD)	Total BDW Processing Capacity (TPD)
01 Thiruvananthapuram	774.83	750.68	90.87	0.00	841.54
02 Kollam	567.14	347.93	67.28	15.00	430.21
03 Pathanamthitta	224.92	159.62	27.97	30.00	217.60
04 Alappuzha	424.15	410.21	62.08	0.00	472.29
05 Kottayam	393.31	325.35	31.12	27.00	383.47
06 Idukki	208.38	260.04	17.86	0.00	277.90
07 Ernakulam	779.34	571.42	72.48	242.00	885.90
08 Thrissur	691.90	530.48	92.47	6.50	629.45
09 Palakkad	601.79	424.06	99.66	93.25	616.97
10 Malappuram	968.70	534.50	126.00	278.50	938.99
11 Kozhikode	744.15	742.64	63.67	30.00	836.31
12 Wayanad	170.56	184.52	14.40	12.00	210.92
13 Kannur	564.81	477.63	57.91	54.00	589.54
14 Kasaragod	284.68	190.41	27.99	110.00	328.40
Grand Total	7398.64	5909.49	851.74	898.25	7659.48

For managing the 7398.64 TPD of biodegradable waste generated, there is a facility of 7659.48 TPD across the state and hence there are no existing gaps. In order to account for the future generation, the state is taking steps to strengthen the source level treatment system in rural areas and to establish centralized facilities in urban areas. With the available financial support from central and state, 2926.39 TPD capacity bio waste management facilities have already been installed at household, institutional and community levels in urban areas.

2. NON-BIODEGRADABLE WASTE MANAGEMENT

For managing dry waste, women's self-help groups known as Harita Karma Sena collect primarily segregated dry waste from households and establishments, transferring it to Material Collection Facilities (MCFs) and Resource Recovery Facilities (RRFs) for further sorting and processing. At these facilities, after secondary segregation, recyclable waste is sent to recycling units, while non-recyclable waste is transported to co-processing facilities, such as cement plants, where it is used as Refuse-Derived Fuel (RDF) for energy recovery. Both government and private agencies ensure the safe transportation of waste.

Table 2: Details of Solid Waste Management facilities in the state

Facility	Up to March 2023	Up to Oct 2024
RRF	93 Nos	167 Nos
MCF	1182 Nos	1272 Nos
Mini MCF	9357 Nos	19156 Nos
Godown facility	16 Nos	67 Nos
Godown Area	85,250 Sqft	481548 Sqft
Container storage facility		198 No.s

The state has made significant investments in infrastructure for the storage of dry waste. Currently, there are 167 Resource Recovery Facilities (RRF), 1272 Material Collection Facilities (MCF), 19156 Mini Material Collection Facilities (Mini MCF), and 67 storage godowns covering an area of 4,81,548 square feet. Additionally, 198 used shipping containers have been repurposed for waste storage, facilitating easier transportation of waste.

Table 3. Non Biodegradable Waste Management Facilities in the State

District Name	Total NBDW Generation	Facilities in Local Bodies (TPD)	CKCL Godown Facility (TPD)	Pvt agency Godown facility (TPD)	Total NBDW processing Capacity (TPD)
01 Thiruvananthapuram	239.67	127.68	87.36	23.20	238.24

02 Kollam	166.30	124.43	92.94	6.25	223.61
03 Pathanamthitta	63.41	61.87	29.74	28.98	120.59
04 Alappuzha	121.05	137.13	44.61	4.00	185.74
05 Kottayam	111.78	108.09	74.35	2.00	184.44
06 Idukki	57.58	58.77	89.22	0.46	148.44
07 Ernakulam	239.46	151.45	78.07	10.50	240.02
08 Thrissur	203.75	212.45	44.61	3.00	260.06
09 Palakkad	169.08	132.62	31.23	9.00	172.85
10 Malappuram	278.08	166.42	102.60	14.60	283.63
11 Kozhikode	226.63	127.07	29.74	49.96	206.77
12 Wayanad	48.43	29.10	37.17	5.00	71.28
13 Kannur	168.45	164.94	118.96	2.45	286.35
14 Kasaragod	80.06	84.46	74.35	1.00	159.81
Grand Total	2173.72	1686.48	934.94	160.40	2781.83
Kerala Enviro Infrastructure Ltd (KEIL)					16.00
Grand Total (TPD)					2797.83

All local bodies have developed comprehensive plans for the movement of vehicles to collect waste from households and transport it to processing facilities. The implementation of these plans is monitored at both the district and state levels through the Harithamithram App, ensuring efficient waste collection without accumulation and adequate availability of vehicles for waste management. To enhance oversight, all waste-transporting vehicles are required to have GPS tracking, and the Kerala State Pollution Control Board has set up a web portal for real-time monitoring of waste-carrying vehicles, both within and across state borders.

Efforts are also underway to equip Material Collection Facilities (MCFs) and Resource Recovery Facilities (RRFs) with the necessary tools for effective waste management, such as conveyor belts and baling machines. To enable easier transportation and reduce the reliance on landfills, the generated reject waste can be converted into Refuse Derived Fuel (RDF). In line with this, four RDF plants have been established in the Thiruvananthapuram and Cochin Corporations. Additionally, the government is working with local bodies to implement

interventions for setting up cluster-level facilities across the state. RDF plants help divert non-recyclable waste from landfills, which reduces the volume of waste that needs to be disposed of, extending the lifespan of landfills and reducing the associated environmental hazards.

Additionally, Information, Education, and Communication (IEC) initiatives have been intensified to discourage open littering. Local Self-Government Institutions (LSGIs), as well as public and private sector entities, are being ranked based on their performance in waste management and cleanliness. To enforce regulations and prevent illegal dumping, 23 enforcement squads were established in March 2023 to carry out inspections and ensure compliance. Furthermore, control rooms are being set up at the district and local self-government levels to closely monitor waste collection and ensure its proper disposal.

3. LEGACY WASTE MANAGEMENT

Legacy dump sites are remediated through biomining, a process that utilizes microorganisms and natural methods to excavate, treat, segregate, and recover valuable materials from long-accumulated waste dumps. These legacy wastes consist of organic matter, plastics, metals, and other materials that have been compacted and decomposed over many years. The soil produced from biomining is utilized to fill low-lying areas at various locations. This process effectively sorts the waste into various categories, including soil, stones, RDF, glass, plastic, tires, wood, and footwear.

A total of 59 dump sites have been identified across the state, consisting of the previously reported 44 sites and 15 newly identified sites. Bioremediation has been completed at 24 sites, while work is currently ongoing at 10 sites. The remediation process is set to commence at 25 additional sites. The quantities of processed and unprocessed waste are detailed in the table below.

Table 4. Details of processed quantity of biomining sites

	Number of Sites	Processed quantity (MT)	Unprocessed quantity (MT)
Total Reported sites	44 Nos.	17,61,871.98 T	
Completed Sites	19	345793.15 T	
Work in progress	10	461367.00 T	644157.16 T
Not yet started	15		310554.19 T
Total		807160.15 T	954711.35 T

Newly identified sites after 2018	15 Nos.	129486.19 T	
Completed Sites	5	12,485.4 T	
Not yet started	10		117001.19 T

Remediation Completed Sites

	Name of Districts	Name of Local Body	Legacy waste site (district wise)	Quantity of waste (in MT) in each site
1	Thiruvananthapuram	Thiruvananthapuram Corporation	Palayam market	4804
2	Thiruvananthapuram	Thiruvananthapuram Corporation	Erumakuzhi, near chala market	900
3	Kollam	Kollam Corporation	Kureepuzha	83926
4	Pathanamthitta	Pathanamthitta Municipality	Near Mini stadium, PTA	800
5	Pathanamthitta	Adoor Municipality	Kaimalapara, Ward no. 2, Adoor	500
6	Pathanamthitta	Pandalam Municipality	Near RRF Unit, pandalam	400
7	Ernakulam	Kalamassery Municipality	Kalamasseri	35000
8	Thrissur	Kodungalloor Municipality	Pullut, Chappara, Kodungalloor	26000
9	Thrissur	Guruvayur Municipality	Choolpuram, Guruvayoor	20000
10	Thrissur	Kodungalloor Municipality	T.K.S. Puram, Kodungalloor	607
11	Palakkad	Pattambi Municipality	Pattambi, Sankara mangalam	1041.15
12	Malappuram	Malappuram ulb	Puliyettummal, Near Inkel city, Malappuram	5079

13	Malappuram	Tirur ulb	Trenching ground, Ottilathara	3079
14	Malappuram	Perinthalmanna Municipality	Perinthalmanna, Kunnappalli	200
15	Malappuram	Manjeri Municipality	Vettekkode, Manjeri	13902
16	Kozhikkode	Kozhikkode Municipal Corporation	Kalliyi, ward-56, beside the river	15
17	Kozhikkode	Koyilandy Municipality	Koyilandi	40
18	Kozhikkode	Kozhikkode Municipal Corporation	Njaliyan parambu	130,000
19	Thrissur	Thrissur Corporation	Laloor	19500
		Total		345793.79

Remediation work in progress

Sl No.	Name of Districts	Name of Local Body	Legacy waste site (district wise)	Quantity of waste (in MT) in each site
1	Thiruvananthapuram	Attingal Municipality	Attingal, Chudukad	11365
2	Kottayam	kottayam municipality	Vadavathoor, Kottayam	80943.2
3	Ernakulam	Kothamangalam Municipality	Kumbalathumuri, Kothamangalam	19146
4	Idukki	Thodupuzha Municipality	Parakadavu, Thodupuzha	28000
5	Ernakulam	Kochi Corporation	Brahmapuram, Kochi	843000
6	Thrissur	Chavakkad Municipality	Chavakkad	5000
7	Thrissur	Wadakkanchery Municipality	Kumbalangad	21063
8	Palakkad	ottapalam municipality	Panamanna, Ottappalam	37600
9	Kannur	Kannur Corporation	Chelora	43727.32
10	Kannur	Mattannur Municipality	Mattannur, Karithurparamba	15680
		Total		1105524.16

Remediation Work about to start

SL No.	Name of Districts	Name of Local Body	Legacy waste site (district wise)	Quantity of waste (in MT) in each site
1	Alappuzha	Kayamkulam Municipality	Murikkummoodu, Kayamkulam	6567.04
2	Alappuzha	Alappuzha Municipality	Sarvodayapuram	57200
3	Kottayam	Changanassery Municipality	Fathimapuram, Changanassery	7300
4	Kottayam	Erattupetta Municipality	Erattupettah, Thevarrupara	8000
5	Idukki	Kattappana Municipality	Kattappana, Puliyanmala	12000
6	Ernakulam	Muvattupuzha Municipality	Kurianmala, Muvattupuzha	44589
7	Thrissur	Irinjalakuda Municipality	Iringalakkuda, Mangadikunnu, Porathissery	14000
8	Palakkad	Palakkad Municipality	Koottupatha, Kodumba	73827
9	Wayanad	Kalpetta Municipality	Vellaramkunnu, Kalpetta	9485.375
10	Kannur	Thalassery Municipality	Thalassery, Punnoolpetty palam	45430.4
11	Kannur	Iritty Municipality	Iritty, Athithattu	1618.49
12	Kannur	Payyannur Municipality	Payyannur, Moorikkovval	2100
13	Kannur	Kuthuparamba Municipality	Palapparamba, Kuthuparambu	12081.6
14	Kasaragod	Kasaragod Municipality	Kelugudde, Kasaragod	12873.6
15	Kasaragod	Kanhangad Municipality	Kanjhangad, Trenching Ground Chemmattamvayal	3481.69
				310554.195

Newly identified sites

Sl. No.	Name of Districts	Name of Local Body	Legacy waste site (district wise)	Quantity of waste (in MT) in each site
1	Thiruvananthapuram	Thiruvananthapuram Corporation	Vizhijam	3177.1
2	Kollam	Kottarakara	Ugrankunnu,	6596

		Municipality	Kottarakkara	
3	Alappuzha	Mavelikkara Municipality	Puthiyakavu, Mavelikkara	2880
4	Kottayam	Mundakkayam Grama Panchayat	Mundakkayam	4000
5	Kottayam	Erumeli Grama Panchayat	Erumeli	1500
6	Idukki	Munnar Grama Panchayath	Munnar	18163
7	Ernakulam	Koothattukulam Municipality	Town-Ward 15, Koothattukulam	1346
8	Ernakulam	North Paravoor Municipality	Vedimara, North Paravoor	18666
9	Thrissur	Chalakkudy Municipality	Near Cosmos Club, Chalakkudy	6769
10	Thrissur	Wadakkanchery Municipality	Wadakkanchery, Kumblangad	16152
11	Palakkad	Alathur Grama Panchayat	Alathur	1824
12	Palakkad	Vadakkancheri Grama Panchayat	Vadakkanchery	1520
13	Palakkad	Nemmara Grama Panchayat	Nemmara	3641.4
14	Kozhikode	Vatakara Municipality	Puthiyappu, Vadakara	30693.6
15	Kasaragod	Mangalpady Grama Panchayat	Kubanoor	12557.6
		Total		129486.19

- Total number of Urban Local Bodies (6 Corporation and 87 Municipalities) : 93 Urban
- Total Urban Population : 79,36,885 (As per 2011 Census)
- Current Municipal Solid Waste Generation : 3011.23 TPD (Urban local bodies- Based on population)
- Processing Capacity : 3870.35 TPD
- Gap in Municipal Solid Waste Management : 0 TPD
- The following projects are completed and functioning:
 - Black soldier plant 50 TPD Brahmapuram, Ernakulam by ZIGMA
 - Black soldier plant 50 TPD Brahmapuram, Ernakulam by FABCO

Online Vehicle Tracking Portal

Rule 16 (6) of Solid Waste Management Rules, 2016 and on the order of Hon'ble NGT board developed an online vehicle tracking portal through ULCCS to monitor inter-state waste movement. GPS/ Mobile tracking through app can be implemented through this portal.

Clearing and beautification of Garbage Vulnerable Points

With active public participation in a mass campaign, garbage vulnerable points were pinpointed. These 1983 locations underwent clearing and beautification efforts, with students and environmentalists playing a crucial role. The once unsightly wayside waste heaps transformed into attractive gardens, conveying a significant message on cleanliness to the public. The operation and maintenance (O&M) of each of these parks are scheduled to be carried out with the support of LSGIs, Resident Welfare Associations, trade unions, NGOs, etc.

Sanitary Waste Management

Following satisfactory monitoring of its operation, new plants are now being proposed in all districts. The total number of planned projects for implementation in the state is 27. These plants will have a cumulative capacity of 23.05 TPD.

Community Level Sanitary Waste Incinerator Projects taken in local bodies			
Sl No.	Name of District	Total Projects taken up in districts	Capacity (TPD)
1	Thiruvananthapuram	2	2
2	Kollam	7	5
4	Alappuzha	1	1
5	Kottayam	2	2
6	Idukki	1	1
7	Ernakulam	1	3
8	Thrissur	4	0.55
9	Palakkad	1	1
10	Kannur	4	2.5
11	Kasargod	4	5
TOTAL		27	23.05

Local bodies, with the assistance of women's self-help groups known as Harita Karma Sena, manage the collection of dry waste from households and establishments. Subsequently, the collected waste undergoes segregation at Material Collection Facilities (MCFs) and Resource Recovery Facilities (RRFs). Recyclable waste is sent to recycling units, while non-recyclable

waste is directed to co-processing facilities, such as cement plants, as Refuse-Derived Fuel (RDF) for energy recovery. To address specific waste components like sanitary waste, e-waste, construction & demolition waste, and hair waste, private partnerships are encouraged. Continuous monitoring of projects in this sector is conducted to ensure the effective maintenance of the system. The reject waste generated statewide in households/shops is segregated at MCFs and is sent to cement factories for onward utilization for energy generation.

Quantity of Reject Waste disposed off

	Reject Quantity (TPD)
From LB Facility	403.37
From CKCL facility	337.08
From Private Facility	59.89
TOTAL	800.34

In order to manage the waste generated including the future requirements, projects have been planned & proposed in local bodies. Projects worth ₹ 45.2 cr have been taken up in local bodies for wet waste management and ₹18.54 cr have been taken up in local bodies for dry waste management. For clearing the existing legacy dumpsites, projects worth ₹120 cr have been taken up under KSWMP and projects worth ₹56 cr taken up under other funds.

Details of Projects Undertaken by LSGI's for solid waste management (Excluding Word Bank)

Name of Districts	Waste Management Projects		
	No. of Projects	Fund Earmarked (in Cr.)	Fund Expended
Thiruvananthapuram	1449	158.32	3.77
Kollam	1357	114.93	2.84
Pathanamthitta	870	47.03	1.3
Alappuzha	1192	92.64	4.42

Kottayam	1187	80.4	3.27
Idukki	765	53.52	2.13
Ernakulam	1483	129.11	4.65
Thrissur	1400	134.3	7.38
Palakkad	1251	80.85	4.61
Malappuram	1446	103.75	9.49
Kozhikode	1271	131.74	5.31
Wayanad	397	34.69	1.48
Kannur	1066	110.31	7.11
Kasargod	692	54.22	2.45
Total	15829	1325.81	60.21

Details of World Bank funded projects

World Bank funded					
No	KSWMP - World Bank funded SWM Project Components	Total Outlay in Rs. Cr	FY 2022-23 & FY 2023-24 till date (31/01/24)		Projected expenses till 31/03/25 in Rs. Cr
			Committed expenditure in Rs. Cr	Firm Contracts / Actual expenditure in Rs. Cr	
I	Component 1				
1	Planning, Execution, Admn Expenses & Capacity Building	320	96.88	56.82	154.82
II	Component 2				
2	ULB level Investments	1,200.00	284	2.85	79.85

	(procurement of SWM Goods & Works)				
III	Component 3				
3	Dumpsite Remediation	120	61	0.28	62
4	Regional Infrastructure	760			82.28
	Total	2,400.00	441.88	59.95	378.95

Similarly, as part of KSWMP funded by World Bank a total outlay of 2400 cr has been earmarked for capacity building, procurement of SWM goods, dumpsite remediation and regional infrastructure.

Rendering plants

Meat rendering plants process animal by-product materials for the production of tallow, grease, and high-protein meat and bone meal. Plants operate in conjunction with animal slaughterhouses or poultry processing plants. The Government of Kerala developed guidelines for the operation of rendering plants which led to the standardization of facilities. The facilities use wastes as an input material to create valuable products as new outputs. The aim of resource-recovery is to reduce the amount of waste generated and optimize the values created from waste. Here, the newly functioning plants lead to the management of around **1068** TPD of poultry waste which would have ended-up as waste and created a menace to the people.

Details of Existing Rendering Plants

District	No. of plants	Plant Capacity (TDP)
Thiruvananthapuram	0	0
Kollam	1	185
Pathanamthitta	1	30
Alappuzha	0	0

Kottayam	0	0
Idukki	0	0
Ernakulam	7	242
Thrissur	2	6.5
Palakkad	6	93.25
Malappuram	16	305.5
Kozhikode	1	30
Wayanad	1	12
Kannur	2	54
Kasargod	2	110
	39	1068.25

Rendering plants are available in 10 districts and the wastes from other 4 districts are also processed through these plants.

Status of proposed Waste- to- Energy Plants

Status report of Waste to Energy Plant				
Sl. No.	Waste to Energy plant	Land Identified	Procured	Status
1	Kozhikode Njاليانparambu (450 TPD)	Kozhikode corporation	(Govt. land)12.67acre at Njاليانparambu	• Concessionaire not achieved financial closure. • Recommended for termination
2	Kannur Chelora	Kannur Corporation	(Govt. Land) 9.7 acres	• Work of - plant can be started only after the work of

			at Chelora	biomining is carried out. WtE plant is proposed in 9.7 acres of land after clearing the legacy waste. • Tendering completed and DPR prepared by Blue planet. Consent application is yet to be received. • For biomining, volume of legacy waste – 1,22,844 m³ (NIT). First given to Zonta and they asked to revise the amount of biomining. Again retendered and identified a suitable contractor, Jan-AdharSevabhaviSanstha. Bio mining already started. • Agreement to be executed Biomining is already started (6500) cum is biomined (50%).
3	Palakkad Kanjikode	Palakkad Municipality		• Concession awarded. • DPR approved. • Financial closure achieved. • Statutory clearances obtained • Construction of plant to commence on September 2024.
4	Kollam Kureepuzha	Kollam Corporation	7.05 acres at Kureepuzha (Govt. land)	• Concessionaire not achieved financial closure. • Recommended for termination
5	Ernakulam Brahmapuram	Kochi corporation		• Construction of CBG Plant ongoing
6	Thrissur	Thrissur corporation		Land is yet to be Identified.
7	Malappuram	Malappuram municipality	8.09 acres of land at Kurumbathoor village in Tirur Taluk	• 8.09 acres of land identified by District Administration at Kurumbathur village. Tirur taluk for setting up of WtE plant. The land is under possession of KSIDC. Details of this are reported to be submitted to Government already by LR Deputy Collector.

8	Thiruvananthapuram	Thiruvananthapuram Corporation		• Land is not yet identified.

Other interventions taken by the State in Solid Waste Management

Door-to-Door Waste Collection

In the fiscal year 2023–2024, there has been a significant increase in door-to-door waste collection coverage across the State. 100% door to door collection is ensured by special interventions at LSGI level. Haritha Mithram app facilitated developing systematic and professional approach on customized strategies for increasing the D2D coverage, user fee collection, segregated material movement, and scheduled transportation of waste from door steps to disposal facilities.

Registration of Unauthorized Dealers

Scrap dealers are pivotal in the non-biodegradable waste management process in Kerala, contributing significantly to the collection and processing of waste. They engage in collecting, sorting, and processing diverse scrap materials, such as metals, paper, plastics, and electronics, contributing to the reduction of waste reaching the mainstream. Efforts are underway to register them officially and evaluate the volume of waste they manage.

Lifting Plan and Forward Linkage

The transfer of waste from mini MCF to MCF and RRFs faced inefficiencies due to insufficient vehicle resources and a lack of professionalism. Through the assistance of Haritha Sahayasthapanams, a systematic plan for waste lifting has been devised and implemented. Additionally, a seamless disposal process for segregated waste has been established by identifying appropriate disposal facilities and recycling markets. To efficiently handle non-recyclable rejects, plans are underway to propose RDF plants at the district level.

Non-recyclable plastic waste is shredded in the MCF/RRFs and is used for the tarring of PWD and LSGD roads. During the period 2016-2024, Clean Kerala Company Limited (CKCL) has produced 3617 MT of shredded plastics and given to various agencies (NHAI - 13.93 MT, PWD - 1635.25 MT, LSGI - 1710.64 MT). The total length of polymerized road constructed during this period using shredded plastic is 5925.78 km.

GPS Tracking Facility

To control the illegal dumping of waste, GPS tracking systems have been mandated for vehicles transporting waste. The Kerala State Pollution Control Board has created a web portal for real-time monitoring of waste-carrying vehicles, both interstate and intrastate. Additionally, vehicles involved in the transfer of non-bio waste have been equipped with security stickers embedded with holograms.

Enforcement Action

To enforce waste management regulations and prevent open dumping, 23 squads were established in March 2023 to undertake enforcement actions. Single-use items constitute a significant portion of the waste discarded on roadsides. The enforcement team has conducted 46,906 inspections to date, identifying 12,409 violations and punishment actions have been taken. A fine amounting to Rs. 1,56,76,606/- has been collected. Additionally, approximately 172,535.409 kgs of single-use plastic items have been seized as a result of these enforcement efforts.

Control rooms have been decided to be set up at the District and Local Self-Government levels to closely monitor the existing collection of waste and their proper disposal. Control rooms are functioning effectively in 650 local self-government bodies, on date.

IEC Interventions

IEC initiatives have been intensified to improve door-to-door waste collection and eliminate open littering.

- An incentive program has been instituted to encourage public engagement in identifying Garbage Vulnerable Points.
- Technical assistance has been provided to BWGs to strategize and establish waste management facilities independently.
- For effective waste management, private partnership has been ensured
- Ranking of LSGIs based on their performance on waste management
- Ranking of public and private sector institutions based on cleanliness index
- 100% User Fee challenge among LSGIs

Sanitary landfill

The non-usable, non-recyclable, non-biodegradable, non-combustible and non-reactive inert waste and preprocessing rejects and residues from waste processing facilities shall only go to sanitary landfill and its specifications are given in zi of Rule 15 of the Solid Waste Managemene
nt Rules, 2016.

In the State, for a Regional Sanitary Landfill 25 acre of land has been earmarked by KINFRA at site of FACT at Ernakulam and action is being carried out to set up. Another secured landfill is under construction in Attingal Municipality.

VI. Bio-medical Waste Management:

As per Annual Report in the whole state for the year 2023-24:

- Total Bio-medical generation: 68122.53 kg/day
- No. of Hospitals and Health Care Facilities: 24196
- Existing Total Bio- Medical treatment capacity (captive and CBMW) : 71.8 TPD
- Total Bio-Medical waste treated : 62.33 TPD (Common- 60.97 kg/D + Captive- 1.36 TPD)

Board has entrusted Council of Scientific and Industrial Research organization , National Institute for Interdisciplinary Science and Technology (CSIR-NIIST) for conducting a detailed assessment of healthcare facilities in the Kerala state. The works include field inspection, field data collection, estimation of gap and for projected/ extrapolated requirements of CBWTF'S for next ten years and entered into an agreement.

VII. Hazardous Waste Management:

As per Annual Report in the whole state for the year 2023-24:

- Total Hazardous Waste generation: 44915.3351 Metric Tonne/year
- Total hazardous waste recycled: 2727.8695 Metric Tonne/year
- Total hazardous waste utilized: 54.165 Metric Tonne/year
- No. of Industries generating Hazardous waste: 2302
- Treatment Capacity of all TSDFs in the State: 27,50,000 MTA for 45 years
- Total hazardous waste treated (captive and Common) : 57451.16 Tonne/year

VIII . Plastic Waste Management:

- Total Plastic Waste generation: 71000 TPA (as per annual report in the whole state for the year 2023-24).
- Material Collection Facility – 17699 nos.; Resource Recovery Facility-136 nos.
- Gap between current status and desirable level : 2317.266 TPA

Prevention of Marine Littering

- The Govt. of Kerala along with German Company Plastic Fischer, initiated the Trivandrum Project in 2022, aiming to combat marine plastic pollution. By deploying TrashBoom systems in the identified locations, Plastic Fischer successfully collected and managed a total of 257 tons of plastic material from rivers, riverbanks, and beach cleanups until the end of 2023. Plastic Fischer obtained the required government permits and deployed 18 TrashBoom systems. Out of the total collected plastic material, 12 tons of plastic were recycled while 245 tons of non-recyclable material were sent to co-processing at cement plants.
- On 1 June 2023, "No More Beach Cleanups" was officially launched along the coastal line of city of Thiruvananthapuram in participation with GIZ to demonstrate behavioral change focused on awareness and action, beach clean-ups, youth mobilization, community engagement and promotion of plastic alternatives in selected locations. In participation with GIZ, at 8 beach locations, 44 beach cleanup drives were conducted in Trivandrum involving 2831 volunteers and 11.15 tonnes of waste were removed.
- Under the GIZ project, NCSCM joined hands in G20 beach clean-up. The clean-up drive was conducted at three beaches in Kerala-Trivandrum, Alappuzha, and Fort Kochi in Kerala (More than 500 volunteers across three beaches collected litter weighing around 1710 kg).

IX. Details of Alternate Treatment Technology being adopted by the State/UT:

- Decentralized Wastewater Treatment System (DEWATS) system coupled with Phyto-remediation was provided in a slum area, Chathanad in Alappuzha, Kerala. The system consists of Anaerobic baffle reactor, planted gravel filter. Waste water from the houses in the colony is collected through pipe line and then it enters the anaerobic baffle reactor and then it is passed through planted gravel filter and treated sewage is discharged into drain
- The Hon'ble NGT issued directions for bioremediation/ phytoremediation for the treatment of sewage. In OA 673/2018, the Oversight Committee submitted suggestions for controlling pollution due to sewage.
- Centre for Water Resources Development and Management, Kozhikode submitted "proposal for the study of sewer infiltration into water resources via isotopic tracing

and treatment of liquid waste by constructed wetland” submitted to Indian National Committee on Ground Water(INCGW) on 25-10-2021, a response is awaited from the INCGW.

- Demonstration projects regarding phyto remediation at a relatively much lower cost with the help of environment experts so that these proposed projects could be realistically remodelled.
- There is lack of expertise on phyto remediation projects. Though there are model project on phytoremediation in other states such as at Golf Links, Hyderabad, such models shall be showcased and action is highly needed for transfer of technology of such projects and to strengthen the environmental experts in our State. Online Presentation by NEERI was conducted on 13.03.2023 and site visit by NEERI officials conducted from 11/05/2023 to 13/05/2023. Proposal for feasibility study submitted by NEERI and order issued. NEERI ,Nagpur then furnished a proposal for the feasibility study on the development of process package of treatment of domestic sewage for meeting the environmental compliance at Edappally canal and Perandoor canal at Ernakulam and Pallikalar at Kollam district for an amount of Rs 45 lakhs and this proposal was approved by the Board and draft MOU has been submitted.
- FSTP at Madakkathara, Thrissur is funded by UNICEF. The unit consists of Anaerobic Stabilization Reactor, Tiger Bio-filter, Intermediate Tank, PSF, ACF, Chlorination unit and Treated water tank.



- As per MPRs in compliance to the Order of Hon’ble NGT in O.A.673/2018, the State requests for expertise aid in in-situ treatment.

X. Identification of polluting sources including drains contributing to river pollution and action as per Hon’ble NGT order on in-situ treatment:

- Polluting sources including drains contributing to river pollution were already identified and according to that action plans were prepared and submitted to CPCB.

STPs were proposed in the action plans wherever necessary. Measures for management of waste were also incorporated in the action plans. In situ primary treatment were proposed for the river stretches Bharathapuzha and Pamba in the action plans.

XI . Details of Nodal Officer appointed by Chief Secretary in the State/UT:

- Vide G.O.(Rt)No.93/2020/WRD dated 28.01.2020 Government of Kerala nominated Deputy Secretary (Projects), Water Resource Department as the nodal authority, Government of Kerala for monitoring the compliance of the directions in the order on fortnightly basis and to maintain record of progress and to act as an accountable person to the Chief Secretary for the purpose.
- Vide G.O.(Rt)No.223/2020/WRD dated 12.03.2020 Government of Kerala appointed a monitoring committee comprising of Additional Chief Secretary, Water Resources Department as Chairperson and Principal Secretary, LSGD, Principal Secretary, Environment, Secretary, Water Resources Department and Staff officer to Chief Secretary as nodal officers & members.

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:

- Regarding OA 514/2019 (Solid Waste Management) Chief Secretary convened meetings on 22.09.2020 and 25.09.2020 Regarding OA 804/17 (Implementation of Hazardous and Other Waste Management Rules, 2016) Chief Secretary convened meeting of 16/10/2020. Additional Chief Secretary Labour Department had convened 1st meeting on the same for Chief Secretary on 09/10/2020. Meeting of State Level Advisory Committee (SLAC) on Waste Management, chaired by Chief Secretary is being conducted in the State regularly to discuss the various matters. 38 such meetings were conducted in Kerala so far. Last SLAC meeting was conducted on 12.02.2021.
- Meetings were held by the Chief Secretary on 11-12-2020, 30-03-2021 and 05-04-2021 with the Stake holder Departments/ Authorities, to review the progress in implementation of the projects taken up on the basis of orders of the Hon'ble National Green Tribunal in O.A. No. 673 of 2018(PZ).
- RRC Meetings were held on 28/05/2021 and 23/06/2021 and Review meeting was held by the Chief Secretary on 31-05-2021. RRC meeting convened on 22.07.2021. Review meeting was held by the Chief Secretary on 27.07.2021. RRC meeting convened on 02.09.2021 and Review meeting was held by Chief Secretary on 09.09.2021. RRC meeting

convened on 01.10.2021 and Review meeting was convened by Chief Secretary on 23.10.2021. RRC meeting convened on 29.11.2021 and Review meeting was convened by Chief Secretary on 16.12.2021. RRC meeting convened on 13.01.2022 and Review meeting was convened by Chief Secretary on 27.01.2022. RRC meetings convened on 23.02.2022,01.04.2022 ,15.07.2022,13.10.2022,2/12/2022,08.02.2023,13.04.2023,20.05.2023, 11.08.2023,11.10.2023, 27.12.2023, 17.02.2024, 23.03.2024, 12.06.2024,01.08.2024 and 21.11.2024

- Review meetings were convened by Chief Secretary on 31.03.2022, 19.04.2022, 26.5.2022, 21.6.2022, 15.07.2022 & 23.08.2022,18/10/2022 &21.12.2022, 09.02.2023, 31/07/2023,06.11.2023, 25.03.2024, 08.07.2024

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river:

Latest Monthly Progress Report and Analysis report of Polluted River Stretches are attached as Annexure I.

XIV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:

1176 notices under the provisions of Water Act has been issued from the Board to apartments/ hotels/houseboats/ industrial units as having no valid consent from the Board/ no sewage treatment plant / non functional sewage treatment plant so far. In Alappuzha district a total of 790 notices were issued including Closure Intention Notice and Consent Withdrawal Intention Notice were issued to 624 houseboats, 112 Closure Intention Notices and 54 Show Cause Notices were issued other units including peeling shed/ resorts/ hotels for illegal discharge(unauthorized units) coming into the water bodies and to Vembanad lake. A total of 167 apartments/ restaurants are served notice in Ernakulam district. In Kottayam notices were issued to 215 units including 106 house boats and 109 apartments/ hotels/restaurants/ auditorium/ lodge/ service station/ nursing homes. In Kollam district 2 Closure Intention Notice and 2 show cause notices were issued to units functioning without Consent. Direction was also issued Neendakara secretary as wastewater discharge noticed from fish peeling sheds in Neendakara. Show cause notice issued to 2 corporations & 7 municipalities for isolations under Water Act and show cause notice for not imposing environmental compensation was issued to 2 corporations and 6 municipalities and hearing conducted on 07/09/2023.

XV. Ground water regulation:

As per the consolidated report submitted in O.A.No.496/2016, the Ground water Department is implementing a “Scheme for Ground water Conservation and Recharge”. Under this scheme, rain water collected from the roof-top is harvested for recharging the aquifer through dug wells and recharge pits. The recharging of deep aquifers through bore wells is also being experimented. The total budget outlay during the period 2019- 2020 was 450 lakhs. It is estimated that there are about 65 Lakhs dug wells in Kerala and the ground water extractions by means of traditional dug wells are prevalent source of fresh water. There are number of public dug wells left abandoned and needs renovation. These dug wells can be considered as suitable stretches to recharge ground water. The Central Groundwater Board has prepared a Block wise master plan in 2015 to take up artificial groundwater recharge to groundwater. The same can be used as a guideline to stream line groundwater recharge activities of the Department.

The State Government has enacted the Kerala Groundwater (Control and Regulation) act 2002 to provide for the conservation of groundwater and for the regulation and control for its extraction and its use in Kerala. The State Groundwater Authority has been constituted on 16.01.2004 to notify the area where groundwater abstraction is to be regulated. As per the Act Groundwater User’ refers to the person who are using ground water from a pumping well (> 1.5 HP for Open dug wells and > 3 HP for BW/TW) for any purpose including domestic purpose. In notified blocks of the state, permission required for the construction of new groundwater abstraction structures.

The Groundwater Department has been conducting mass awareness programmes to public., students, people’s representatives, government officials etc. on groundwater conservation and management in all Districts under the Plan Scheme “Control and Regulation of Groundwater Exploitation for the effective groundwater management. During the last 4 years, the department has conducted more than 100 numbers of awareness programs across the State.

The Ministry of Water Resources, River Development & Ganga Rejuvenation (Central Groundwater Authority) has recently issued a new guide lines to regulate and control groundwater extraction in the country in pursuance of the directions of Hon’ble National Green Tribunal and the powers conferred under section 5 of the Environment (Protection) act, 1986 (29 of 1986) dated 24th December 2020.

XVI. Good Irrigation practices being adopted by the State:

Irrigation in Kerala is classified into two schemes.

- Major Irrigation and Medium Irrigation
- Minor Irrigation

The Irrigation department develops and maintains major and medium irrigation schemes/projects across the state. The primary activity of the Department is providing irrigation facility to the farmers of the State through its system comprising reservoirs, main canals, branch canals, feeder canals and other related infrastructure. The department maintains water distribution through the canal system. Water distribution is being carried out based on the cropping pattern of a particular area and a water distribution calendar prepared and approved by a committee headed by the District Collector with members of farming community, other stake holders and department officials. For proper distribution and maintenance of the canals Water Users Association (WUA)/ Farmers Association plays an important role.

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1. Minor Irrigation

- Minor Irrigation schemes are divided into Class-I and Class-II depending on the ayacut served. Schemes serving above 50Ha up to 2000Ha are classified as MI Class-I. Lift irrigation schemes are also Minor irrigation schemes serving at least 40Ha. Aims to Construct RCBs,

SWECBs, ponds, VCBs, check dams, salt water barriers, storage weirs, cross bars, and protection works etc.

- MI Class-I schemes Minor works like improvements to tanks and rivulet, construction of check dams, sluices, regulators, bunds, vented crossbars, salt water barriers, layout of channels and drainage structures etc are usually undertaken under MI Class-I schemes.
- MI Class-II Schemes Minor irrigation works including construction of vented cross bars, canals, improvements to natural drains etc are taken up under this scheme.

Lift Irrigation

- Lifting of water is required for irrigating fertile land at a higher elevation where gravity flow of stored water is not possible. Although mechanical lifting is required, these schemes are very useful and serve the marginal farmers of the State.
- Optimum utilization of water by supplying designed quantity
- Works involving lifting of water with a command area not less than 40 hectares come under this category.
- This will increase in the ground water table in high altitude areas, Ensure water availability to farmers before the cropping period.
- This will reduce agricultural loss in high altitude areas due to water scarcity, their by reducing distress to farmers.
- At present the Irrigation Department has under its control 450 Lift Irrigation Scheme (LI schemes) with a total Ayacut of 43170ha.

- Micro Irrigation

- Micro-irrigation system is a modern method of irrigation in which water is delivered slowly. Usually in the form of discrete droplets, continuous drops, streams, etc. Micro-irrigation system is popular these days for its low cost and water-efficiency.
- The benefits of micro irrigation and precision farming are well demonstrated with an average increase in yield by three times. Pepper as a case in point shows enhancement from 1.9 kg/wine to 6/wine on precision agriculture. Coconut also shows increase in productivity to 150 nuts per plant as against 45 without precision irrigation support.
- In the coming year department is planning to implement atleast one micro irrigation scheme in each district with the coordination of line departments and farmers. Steps are

initiated to identify the location as well as crops in coordination with the agriculture department.

XVII. Rain Water Harvesting:

In compliance with the Hon'ble NGT Order dated 11.09.2019 in O.A. No. 496/2016, the consolidated report of Kerala State regarding the present status of the implementation and action plans on rain water Harvesting for conservation of water was submitted by the Kerala State Government on 27.11.2019.

The State Groundwater Department has been implementing a scheme for Groundwater Conservation and Recharge under plan fund made available since 2004-05. The project

component includes roof top rainwater harvesting for groundwater recharge through dug wells, recharge pits, bore wells and recharge shafts and construction of subsurface dykes and small check dams on micro water shed basis. The recharge schemes are being implemented as a long term measures to achieve sustainable groundwater development in the State. The Department is engaged in recharging groundwater through roof top rain water harvesting in public buildings and government schools and giving priority to implement such structures in notified blocks. The Department has successfully implemented roof top rainwater harvesting through recharge pits to enhance groundwater levels of dug wells in the Kattakkada Constituency of Thiruvananthapuram District. The Constituency was officially declared in November 14th 2019 as the first assembly constituency in Kerala to implement artificial groundwater recharging structures in all Government schools and offices. The State Groundwater Department has implemented 169 nos of recharge pit/direct dug well recharge schemes, 4 check dams and one sub surface dyke during the 12th plan period. In the 13th plan period as on October 2020, the Department has completed 370 nos of recharge pit/dug well recharge schemes and 18 nos of bore well recharge schemes.

The Department has also taken initiatives to implement roof top rainwater harvesting structures in order to replenish the aquifer system in Chittur (Over-Exploited), Malampuzha and Kasaragod (Critical) blocks under Jal Shakti Abhiyan Programme by Ministry of Jal Shakti Government of India.

XVIII. Demarcation of Floodplain and removal of illegal encroachment:

Kerala receives about 90% of the annual rainfall during the monsoon months from June to August and from October to November. The remaining period from December to May is practically dry. Most of the rain water received during monsoon period flows to sea within 48 hours of rainfall due to the character of the geographic terrain of the state.

- State Disaster Management plan 2016 was prepared by National Centre for Earth Science Studies in 1:50,000 scale using satellite images.
- Based on the request of central water commission, Government of Kerala constituted Regional Committee for scientific assessment of Flood prone areas in Kerala.
- Flood-level marking for the flood affected rivers has been carried out. Steps have been taken for conducting the studies regarding Flood plain Zoning. Due to the peculiar topography and dense population, evacuation of people from these zones is difficult.

Flood plain zoning is considered as an effective measure for flood management. As far as Kerala is concerned, the topography and total number of rivers, major lakes and other water bodies are entirely different compared to other states. Since Kerala has 44 rivers, except three rivers, all are west flowing; that is about every 14 km (average) there is a river. It may please be noted that the width of Kerala varying from roughly 30 to 120 km, and the total geographical area is 38863 km². Kerala is the 21st largest Indian state by area. As per census of 2011 the density of population per square kilometer is 859. By considering the above facts, implementation of zonation and demarcation of priority areas/non development zones will affect the populace of Kerala or leads to displacement from their ancestral settlement. This is why the Model Bill of 1975 issued by CWC has not been implemented in Kerala. However intensive contour may delineate and notification of limits of flood plains through LSGIs is a possible way out as far as Kerala is concerned to avoid future developmental activities in such area, for which a policy decision is necessary.

Desilting:- Flood havoc in 2018& 2019 very much affected the storage capacity of several regulators and check dams due to the accumulation of silt/ sand and other debris. In some cases, the proper functioning of the regulators become halted due to the accumulation of the above said materials.

Vide G.O (Rf) No.50/2019/WRD dt 08-11-2019 Government issued AS for desilting of 6 structures, namely:-

Cheruthuruthy check dam

Changanamkunnu regulator

Manjummel regulator

Purappallikavu regulator

Velliyankallu regulator cum bridge

Pookkottumana regulator cum bridge

The work for desilting of 6 regulators/ check dams were tendered and the works are in different stages.

Along with irrigation structures action were taken to desilt the dams as a pilot project to enhance the storage capacity which results more outflows and ground water recharge. Mangalam dam, Chulliyar dam, Meenkara dam and Walayar dam are the four dams listed. Apart from the above Irrigation department has initiated action to prepare an inventory of the present status of all the rivers in Kerala by entrusting the job to Executive Engineers. The primary objective is to find out the obstructions to free flow in rivers. It is expected to complete the process within a month and draft reports/ status reports were also be ready. As a follow up, the department intends to desilt the river stretches which need urgent action to avoid flooding in the vicinity; by utilising the amount announced in the Budget.

Encroachments can be assessed after detailed survey with the help of Revenue Department. Executive Engineers entrusted with ownership of rivers have been directed to identify the encroachments along rivers and prepare a list at the earliest Public Grievance report form has been developed in department website. 300 petitions were forwarded to the revenue officials for remedial action. 133 petitions also received since then are also forwarded to the concerned.

XIX. Maintaining minimum e-flow of river:

- As per order of the Hon'ble NGT Order in OA no.498/2015 it is mandatory to maintain 15%-20% of average lean season flow in the river. E-flow can be assessed in many

ways. Hydrological methods and holistic methods are generally used for this purpose. A good Hydrological data is maintained at IDRB Chief Engineers office at VikasBhavan. Steps have been initiated to collect last 25 years average flow details of all 44 rivers during summer season, ie from January to May.

- Ministry of Water resources, RD& Ganga Rejuvenation issued a notification (SO.5195 (E) dated 9.10.2018) to maintain e-flow in River Ganga. Hon'ble NGT order has given some relaxation to status , which are unable to adhere to the average percentage fixed as e-flow CE (I&A),&CE (IDRB) made discussion in this regard and action has been taken by IDRB to compile the last 25 years discharge of rivers. As per the report of Kerala State Disaster Management Authority (KSDMA) nearly 15% of the land area of the state prone to flood. On two (2) occasions, GOI (CWC) and Ministry of Environment Forest and climate change had circulated model bill on (i) Flood Plain Zoning (1975) (II) River Regulation Zone (2015). Considering the already enacted regulations vizi) Forest area ii) Coastal Regulation Zone (CRZ), the topography of the state, high population density , and number of rivers, Government has not yet taken a policy decision in this matter. The State Government has sent the apprehension of the State to GOI with regard to River Regulation Zone Bill.
- As per the direction of the Additional Chief Secretary (WRD), meetings were conducted with Chief Engineer, IDRB to discuss the availability of historical data. To carry forward the study of e-flow a training was arranged on 12.09.2021 to the engineers entrusted for e-flow calculation. A review meeting in this regard was also conducted on 01.10.2021 and in the meeting it was decided to calculate e-flow of the rivers, Meenachil and Manimala as pilot project. Data collection for Manimalariver completed. Data collection for Meenachil, Kadalundi, Karamana and Vamanapuram is in progress.
- It was decided in the last RRC meeting that an expert committee to be constituted to recalculate the e-flow. Accordingly an initial discussion of the technical committee has been convened and it has been decided to recalculate the e-flow for the rivers on the revised methodology. Secretary WRD directed (08/2023) to conduct a meeting with KSEB authorities, to collect required data for the e Flow calculation. Also details of

dam, ground water, amount of water ejected out from hydro electric projects in various seasons are to be collected for the calculation of flow. For these, the Expert committee framed for vetting e Flow needs to be restructured to include representatives from KSEB, Fisheries, Environmental Scientists, etc. Hence we have requested to the above departments to nominate suitable officials from their department /institution who have expertise in e-flow analysis/who can contribute to the same to be included in the Expert Committee. Follow-ups are going on. Based on the direction from the Administrative Department, an Expert committee was constituted for vetting the same. The first meeting of the committee is scheduled to be held on 10.01.2024. The present e flow calculation was done in line with the old methodology as per the direction of NGT. As per the existing NGT order the minimum E flow calculation required is 15-20. Since it is based on the flow of Himalayan fed rivers, the same method cannot be applied to Southern states which are monsoon fed. Hence a new methodology is required. An interdepartmental Expert Committee has been constituted for calculation of e-flow. 3 Meetings of the committee have been convened, and as per decision of the committee, Kuttiyadi river was selected as pilot project for arriving the new methodology for e flow calculation, and CWRDM is assigned with carrying out same.

- Fisheries data for Kuttiyadi river was obtained from the Fisheries Department and data collection regarding cross section of river from the Hydrographic survey wing is in progress. Reconnaissance survey for 14.6 Km has been conducted by Hydrographic survey wing and detailed estimate submitted to Head office for approval. The methodology for E flow calculation of Meenachil river was carried out by IDRB. The methodology in this regard is under review. The methodology was presented in the 4th meeting of the Expert committee 06.06.2024

As per the action plan for Kallai River, a bio park in Kozhikode district is proposed by Irrigation Department and as per the action plan of Karamana river, Bio diversity park at Karamana is implemented by Irrigation Department and 96% work is now completed and remaining work is in progress. Also, for other action plans of polluted river stretches, proposals are submitted by Irrigation Department and action is initiated. As stipulated by the Biological Diversity Act 2002, Biodiversity Management Committees (BMC) are mandated with conservation of Biodiversity in their localities. In Kerala BMCs has being established at

all 3 tiers of local bodies. As part of the 13th five year plan, KSBB had started a project to empower Local Self Government Biodiversity Management Committee (BMC) as Model BMC to conserve Biodiversity by providing a minimal assistance of Rs 5.00 lakh. The lists of various projects relating to river bank conservation by planting suitable species/ biodiversity parks in the river banks being undertaken by BMCs during the last two years are given below:

- Ayiroor Grama panchayat, Pathanamthitta– Planting of Homonoiariparia along the banks of Pamba River
- Ayarkunnam Grama panchayat, Kottayam - Conservation of Homonoiariparia along the banks of Meenachil River.
- Mariyapuram Grama panchayat, Idukki - Harithapuram park- Eco restoration and conservation of Periyar River bank severely damaged due to flood.
- Kottur Grama panchayat, Kozhikode - (a) Establishment of Biodiversity Park near Kuttiyadi river (b) Biodiversity gardens (50 units)
- Vanimel Grama panchayat, Kozhikode - Conservation of Vanimel riverbank
- Kurumathur Grama panchayat, Kannur – (a) Afforestation along tributaries of river banks of Kuttikol river, Valapattanam river (b) Planting of Pandanus along canal banks
- Muzhakunnu Grama panchayat, Kannur – Puzhayora Oushada Sughandha Udyanam along the banks of Aralam river.

As part of Rebuild Kerala Initiative a project on Riverine Biodiversity Rejuvenation of Pamba for an amount of Rs 200 crore is being undertaken. The project aims at Protecting riverbanks and conservation of riparian vegetation using locally available plants. The major activities on going are:

- Restoration of riparian vegetation on degraded river banks in selected 10 Grama Panchayats (Ayiroor, Cherukol, Kozhenchery, Ranni- Angadi, Ranni- Pazhavangadi, Ranni, Ranni-Perunad, Vadasserikkara, Vechoochira and Naranammoozhi) belonging to three Block Panchayats viz., Elanthoor, Koipuram and Ranni in Pathanamthitta district
- About 77,000 saplings of 93 species of riparian plants are being planted along a stretch of 93km.
- Ensure sustainable livelihood for the local people through providing training for developing microenterprises and establishing nursery of native species. Develop a

sustainable community based management model of conservation of aquatic ecosystems.

- To create awareness and sensitize local population and students for promotion of riparian ecosystem services.

XXII. Reuse of Treated Water:

Possibility of utilizing the treated effluent for irrigation, gardening, industries, construction and recharge are being explored. A 5 MLD tertiary treatment plant is proposed and the work is awarded for treatment of effluents of STP at Muttathara. The same is in the design stage.

XXIII. Model River being adopted by the State & Action proposed for achieving the bathing quality standards:

Tirur-Ponnani River, Malappuram

XXIV. Status of Preparation of Action Plan by the 13 Coastal States:

As per the NGT order in O.A 829/2019 dated 22.06.2020 r

egarding the remedial action to restore sea water quality along the Indian Coastal areas, the Hon'ble NGT ordered that "All States/UTs through their concerned departments such as Urban/Rural Development, Irrigation & Public Health, Local Bodies, Environment, etc. may ensure formulation and execution of plans for sewage treatment and utilization of treated sewage effluent with respect to each city, town and village, adhering to the timeline as directed by Hon'ble Supreme Court. STPs must meet the prescribed standards, including fecal coli form . CPCB may further continue efforts on compilation of River Basin-wise data. Action plans be firmed up with Budgets/Financial tie up." In compliance with the order, CPCB instructed that the State PCB shall associate National Centre for Coastal Research, Chennai under Ministry of Earth Science for monitoring and assessment of coastal water within the jurisdiction of the Kerala State up to 5 km from shore and to evolve strategies for protection of the coastal areas in association with Coastal Zone Management Authority in the State and Prepare time bound comprehensive action plan along with implementing agency in consultation with Kerala State Coastal Zone Management Authority for control of coastal pollution in Kerala State. Also the State Government has instructed the Board to prepare action plan by consulting CUSAT .Based on this, the Member Secretary of Kerala State

Pollution Control Board has conducted meeting with officials of CUSAT, National Centre for Coastal Research, Kerala State Coastal Zone Management Authority and also with the field level officers through video conferencing.. The Action plan was forwarded to CPCB. CPCB put forward some suggestions and requested to modify the action plan upon concurrence with River Rejuvenation Committee. So, the Coastal Action Plan prepared has been forwarded to the concerned Stakeholder Departments for their remarks. Meetings in this regard convened on 23.07.2021 and 02.08.2021. The modified Coastal Action Plan was approved by RRC and the same has been submitted before State Govt. for approval. The Coastal Action Plan was submitted to CPCB with the approval of State Govt.

XXV. Regulation of Mining Activities in the State/UT:

Indian parliament has enacted the Mines & Minerals (Development & Regulation) Act, 1957 and it stipulates for the conservation, prudent and discriminate exploitation of minerals with a view to secure maximum benefit to the community. In exercise of powers conferred by section 13 of Mines and Minerals (Development & Regulation) Act 1957, the Central Government has framed the Mineral concession Rules, 1960. The Central Government has also framed the Mineral Conservation and Development Rules, 1988 in exercise of the powers conferred by section 18 of the Act. These Rules are applicable to all minerals except coal, atomic minerals and minor minerals. The powers of framing rules for minor minerals have been delegated to the State under section 15 of the mines Act. In exercise of the powers conferred by section 15 (1) of the Act the State has framed the Kerala Minor Mineral Concession Rules 2015 and Kerala Minerals (Prevention of Illegal Mining, Storage and Transportation) Rules 2015 for the regulation and extraction of minor minerals. The Central Government in exercise of powers conferred by section 18 of the Act has also framed the Granite Conservation and Development Rules, 1999 for conservation & systematic development and scientific mining of the granite resources. The grant of reconnaissance permit, prospecting license or mining lease are governed by the central Act. The State with the prior approval of the Government of India grants permission for reconnaissance permit, prospecting license or mining lease for major minerals. The state Government issue quarrying permits and leases for minor Minerals based on the Kerala Minor Mineral Concession Rules, 2015. Other Acts and Rules which govern the mineral administration of India applicable to the State are the following:

- The Mines Act, 1952 (Act 35 to 1952)
- The Mines Rules, 1955 (35 of 1952)
- The Metalliferous Mines Regulations, 1961
- The Mines Rescue Rules, 1985
- Mines Vocational Training Rules, 1966
- Payment of wages (Mines Rules , 1966)
- Payment of undisbursed wages (mines rules, 1989)
- The Indian Explosive Act, 1884
- Air (Prevention & Control of Pollution) Act, 1981(14 of 1981)
- Environment (protection) Act, 1986 (29 of 1986)
- Indian Registration Act, 1908 (Central Act of Act 16 of 1908)
- Kerala Protection of River Banks and Regulation of Removal of Sand Act, 2001
- Kerala paddy field and wetland conservation Act, 2008.
- Kerala Panchayath Act.

There is no large scale mining activity in Kerala as in other parts of the country. Almost all the mines are open cast and limited in areal extent. The important mines of major minerals are china clay, laterite/bauxite, limestone and lime shell. Mineral sands and silica sand are excavated by scooping and quartz is being extracted by taking trenches and pits. The important minor minerals in the state are granite, building stones, dimension stone, laterite, tile/brick clay and ordinary sand. The state owns mineral deposits like placers, china clay (kaolin), limestone, silica sand, bauxite, graphite, iron ore, granite etc.

The major mineral based industries like Indian Rare Earths Ltd. (Chavara), Kerala Minerals and Metals Ltd. (Chavara), Malabar cements (Walayar), Travancore cements Ltd. (Kottayam), Kerala ceramics (Kundara) Travancore Titanium products Ltd. And English Indian Clays Ltd, Thiruvananthapuram, Excel Glass Industry, Alappuzha, KeralaClays and Ceramic Products Ltd. (Pazhayangadi) are some of the mineral based industries working in the State since several years. A number of tile based industries are also functioning mainly in Thrissur and Kozhikode districts.

In exercise of the powers conferred by section 15(1) of the Mines and Mineral (Development & Regulation) Act, 1957, the State has framed the Kerala Minor Mineral Concession Rules

1967 for regulating the extraction of minor minerals. The State with prior approval of the Govt. of India grants permission for reconnaissance permit, prospecting license or mining lease for the first schedule minerals on first cum first served basis. In addition to EIA requirements as stipulated by the Central Govt, an EIA report is insisted on all mining activities before granting mining lease. No quarrying permits or leases are granted in the State unless there is a Mining plan duly approved by the competent authority. Afforestation of the reclaimed areas is promoted. Environment Rehabilitation is insisted in all mining projects.

The Kerala District Mineral Foundation Rules 2018 has been formed with an objective to work for the interest and benefit of persons and area affected by mining related operations. The permissible activities under District Mineral Foundation includes among other things, developing sources of irrigation, development alternate sources of energy and rain water harvesting, conservation measures of biodiversity of the affected areas.

The expert study in all selected quarries in Kerala was carried out with one day for ambient air quality measurement (without the operation of quarry) and next day with the operation of the quarry. Individual site reports with the observations on dust, noise and mine pit water quality was prepared by the monitoring team of KSPCB for all the nine quarry sites.

XXVI. Action taken status with regard to directions issued for prohibition of immersion of idols, puja materials and other items of religious offerings in rivers & other water bodies in particular during the occasion of festivals

- Regarding the Ganesh Utsav celebration and immersion of idols ,it may kindly be noted this is not widely practiced in the State of Kerala. The Board had instructed the District offices to conduct monitoring of water bodies where immersion of idols is practiced on a large scale. Water quality was carried out in three stages-pre immersion, during immersion & post immersion periods. A press release was also issued by the Board in connection with the festival for information of the public on the guidelines for immersion, issued by CPCB. In Kerala idol immersion are not celebrated as a major festival. The Govt. take steps to avoid water pollution due to immersion of idols. If to celebrate natural clay and colours are being used and that too in artificial ponds arranged by local authorities
- During Sabarimala festival season, there is a traditional celebration “ Pettathullal”, for the same the pilgrims will apply colouredKumkum on their body. It was directed that

only natural colours shall be used for the celebration. Separate arrangement like shower bath are provided for carrying out bath after the celebration, in order to avoid the reach of coloured water into the main waterbody. The waste water from the shower bath location will be treated in ETP provided.

XXVII. Current status of water quality of rivers based on draft revised categorisation of CPCB

- Out of 21 stretches, the following 11 stretches delisted from PRS. Mogral- at Kasaragod, Kuppam, Peruvamba, Ramapuram, Kavvayi- at Kannur, Bharathapuzha, Bhavani- at Palakkad, Kutiyadi-Kozhikode, Kecheri, Karuvannur, Puzhakkal- at Thrissur
- Due to improvement in water quality priority class of the following 4 rivers has been shifted to lower priority class. No priority I and II rivers in Kerala now.

Karamana, at Thiruvananthapuram- Priority III (from Priority-I)

Manimala at Alappuzha – Priority V (from Priority IV)

Pamba at Pathanamthitta – Priority V (from Priority IV)

Kadambrayar at Ernakulam – Priority V (from Priority IV)


CHAIRPERSON

National Mission for Clean Ganga
Format for Submission of Monthly Progress Report by States/UTs
(Hon’ble NGT in the matter of OA No.673/2018 dated 06.12.2019) RIVER
KARAMANA, THIRUVANANTHAPURAM
ACTION PLAN FOR RIVER KARAMANA, KERALA - June2025

1. Short Term Plan

Maintenance and de-bottle necking of existing sewerage network

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

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

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

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

	Tendering/ To be arranged (1No.) Land acquisition -1 In progress-3					To be arranged	Land acquisition in progress-1Nos	Land acquisition process for all 4 works completed and land handed over to KWA. LA for the work of laying sewer trunk main from Murinjapalam towards Kannammoola - Joint site inspection of the site by KWA officers and LATHahasildar were conducted on 27.02.24 for assessing the land value. LA 11(1) LA in progress- Final stage. Revised AS obtained in state plan 2021-22, - 2.36 Cr demanded. Remittance of 2.36cr completed in 3 phase. Balance AS amount for Rs.49.68lakhs as per the revised demand from Spl. Thahasidar. Administrative Sanction is obtained for this vide proceedings no. KWA-JB/4401/2024-AE1 PIU1 KWA-Part (2) dated 22.02.2025. Action is being taken to settle the matter. AS obtained for arranging the work under State Plan 22-23 and one work arranged and one tendered. This tendered work re-casted and placed under State Plan 2022-23 , AS received and tendered. Agreement Executed and pipe supplied and work in progress - 50% completed. Killi River Crossing permission obtained. River crossing pipe laying delayed due to rain and restarted the same on 29.01.2025.Box culvert work 100%completed. For another work 26% completed. No further progress in the work by the contractor after March 2024. The contractor steps back from contract. Recommended to terminate the work and arrange at risk and cost.. Now the contractor restarted the work, HDD machine mobilized at the site.
2.1.11	Procurement of sewer cleaning machines and	Kerala Water	Mar 2020	0%	0%	0%	100%	Work Completed.

	equipment maintenance	Authority						

1. **Long Term Works**

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

	requirement							against KWA at first up to 22.08.22 which is then got extended up to 14.09.22 against taking any coercive actions. DPR preparation of sewerage system to the uncovered areas of TMC is now being carried out internally by KWA. The total wards were divided in to 10 clusters. Cluster 1 comprises of 5 wards - Attukal, Kalady, Kallipankulam, Ambalathara and kamaleswaram wards – The DPR for Cluster 1 was submitted on 13/10/2022 for AS. Later as per the direction of Secretary Thiruvananthapuram Corporation the DPR for Cluster 1 was revised including Zone 1&5 for Rs.91.00Cr and Zone 3&4 for Rs.66.50Cr and was submitted to Corporation on 28.12.2023 for getting AS under UIDF. AS received for thesetwo works and workstendered. As the two bidders who quoted for the Tender of Cluster 1- (ZONE-III Kalady Part) and(ZONE-IV - Attukal Part) was disqualified the tender was cancelled and retendered the work. In case of Cluster I zone I&Valso 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 andPart 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. The DPR for cluster 2 submitted on 27.02.2023 and is verified and kept inShelf. The DPR for cluster4(Thirumala Thrikkannapuram and Punnakkamughal wards) is prepared and submitted on 30.03.2023 with pvt land. And assuggested for identifyingCorporation/Govt. landsfor the collection well andSTP proposed is beingdone and after obtaining sanction of the Purambokeland identified, there will be changes in the designof network and action being taken to revise the estimate accordingly. DPR for Cluster IX(priority wards (Vizhinjam and Harbour area) completed and submittedon 29.09.2023. Land forSTP identified and theconfirmation of land notyet received. DPR ofcluster X comprising ofwards Shangumugham,Vettucaud, Vallakadavu,Beemapalli (part),Beemapalli East (part),Valiyathura and Kadakampally is under preparation. DPR for Cluster 3 Zone 1&3 estimate revised and submitted the same to Corporation for getting AS under UIDF.
	Total Amount		5000CR				

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

Signed by
Jeevan Babu K
Date: 04-07-2025 17:38:18

Managing Director

WORKS UNDERTAKEN AS PART OF N G T ACTION PLAN

STATE PLAN 2021-22

Sl No.	Name of Work	Implementing office	Source of fund	Time line	Status as on 31.05.2025
1	TSS - Providing and laying 300mm dia main and 200mm SW branch sewer line towards Sreekrishna Nagar infront of Jagathy School in Jagathy Kochar Road	Sewerage Division, KWA, Trivandrum	State Plan		Completed
2	TSS –Reconstruction of old dilapidated brick manholes with R C C and Raising of manhole covers in the Central R C area under Sewerage Section , Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan		Completed
3	TSS - Reconstruction of old dilapidated brick man holes, Raising of man holes and Replacement of RCC Covers with CI covers at Thaliyil and Karuvalikkunnu area under Sewerage Section 2	Sewerage Division, KWA, Trivandrum	State Plan		Completed
4	TSS - Reconstruction of old dilapidated brick man holes and raising of man holes at Enchakkal Sreevaraham area under Sewerage Section I, Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
5	TSS - Reconstruction of old dilapidated brick man holes, Raising of man holes and Replacement of RCC Covers with CI covers at Poojappura and Arannoor area	Sewerage Division, KWA, Trivandrum	State Plan		Completed
6	TSS –Reconstruction of old dilapidated rick manholes with R C C and Raising of manhole covers in the West R C area under Sewerage Section , Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan		Completed
7	TSS - Urgent construction of compound wall and fencing at Karuvalikunnu Sub section office compound	Sewerage Division, KWA, Trivandrum	State Plan		Completed
8	Renovation of Puthenkotta Sub Section Office and construction of compound wall, reconstruction of damaged compound walls with barbed wire fencing protection at Kuriathy pumphouse premises and Arannoor pumphouse under Sewerage Section II,Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed

9	TSS -Zone II - Laying 600mm dia RCC NP3 pipe sewer main towards Edapazhanji Chithra nagar (IV th reach) Chainage 2738 m to 2908 m for land acquisition cost	Sewerage Division, KWA, Trivandrum	State Plan		Completed
10	TSS - D Block - Zone II - Supplying Conveying and Laying 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam to Kannamoola - Ch 0 to 342m	Sewerage Division, KWA, Trivandrum	State Plan		Ongoing
11	TSS - Reconstruction of old dilapidated brick manholes, raising of manholes and replacement of RCC covers with CI covers at Thampanoor and Manjalikulam area under sewerage section No.2,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 Thycud Elamkam Garden lane from TENRA 144 to TENRA 199 A and from TNRA 158 to TNRA 208 under Sewerage Section II,Kuriyathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed

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

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

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

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

STATE PLAN 2022-23

Sl No.	Name of Work	Implementing office	Source of fund	Time line	Status

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

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

11	State Plan 2022-23- TSS- Increasing the capacity of 150 mm dia SW pipe to 200 mm SW pipe and constructing RCC manholes at Uppalam Road residence association URR 11 A to URR 23 A under the area of Sewerage Section I,Kuriathy	Sewerage Division, KWA, Trivandrum	State Plan		Completed
12	State Plan 2022-23- TSS Reconstruction of old dilapidated brick manholes and raising of manholes in Thaliyal & Karuvalikunnu areas	Sewerage Division, KWA, Trivandrum	State Plan		Completed
13	State Plan 2022-23-TSS Reconstruction of old dilapidated brick manholes with RCC and raising of manhole covers in the Central and Right RC area under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
14	State Plan 2022-23-TSS Reconstruction of old dilapidated brick manholes with RCC and raising of manhole covers in the Left and West RC area under Sewerage Section, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Completed
15	State Plan 2022-23- TSS Mace-Supply,erecting and commissioning of 200 HP slow speed non clog flood proof submersible pump set and allied works at Kuriathy pump house	Sewerage Division, KWA, Trivandrum	State Plan		Pump installation completed and commissioned.
16	State Plan 2022-23- TSS- Zone II -Laying 600 mm dia RCC NP3 pipe sewer main towards Edapazhinji Chitra Nagar (IV th Reach) Ch 2738 to 2908 m in connection with the commissioning of Jagathy Kootamvila Scheme	Sewerage Division, KWA, Trivandrum	State Plan		Out of 167.50m of 600 mm RCC NP3 pipe, 145m laid and 11 MH completed. Sanction was accorded by Irrigation Department to lay DI pipe across the box culvert. Box Culvert work completed. (99% completed)
17	State Plan 2022-23-TSS- Renovation of open drain from Kuriathy Pump house premise to public drain,	Sewerage Division, KWA, Trivandrum	State Plan		Completed

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

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

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

STATE PLAN 2023-24

Sl 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 Vanchiyoar ward .	Sewerage Division, KWA, Trivandrum	State Plan	30-08-2025	Tender evaluation
6	State Plan 2023-24-TSS - Rehabilitation of damaged sewer lines and reconstruction of dilapidated brick manholes in Nandini Gardens, Kothalam .	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed
7	State Plan 2023-24-TSS- Increasing the capacity of sewage pipe line and reconstructing RCC manholes in back side of Kottuval Street, Sabhavathy road near Gandhi hotel,Karikkada lane,Pattuvilakam street and Kamukuvilakam street at Chalai Ward	Sewerage Division, KWA, Trivandrum	State Plan	31-08-2024	Retendered
8	State Plan 2023-24- TSS- Providing and laying of 200 mm dia SW sewer branch line in the end of Vyasa Nagar near Turfsy sports hub to house No 73(AC) in Paruthipara .	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed
9	State Plan 2023-24- TSS- Supplying and laying of 250 mm dia SW sewer line from Anaswara lane to existing MH to Njaramoodu .	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2025	Work ongoing
10	State Plan 2023-24- TSS- Laying of 160 mm PVC sewer line near Poonthura Vilakom Lane in Maruthamkuzhy Residence Assosiation .	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2024	Work ongoing
11	State Plan 2023-24- TSS- Laying 200 mm dia SW pipe sewer branch line from existing MH to the residential area near Pangode military camp	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Work ongoing
12	State Plan 2023-24- TSS- Laying 150 mm dia SW pipe sewer branch line towards Padayani Gardens Association	Sewerage Division, KWA, Trivandrum	State Plan	30.05.2025	Work ongoing

13	State Plan 2023-24-TSS- Replacing old and damaged 150mm & 100mm SW sewer line from House no. A61 to Shanthigiri hospital at Sasthamangalam ward	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
14	State Plan 2023-24-TSS- Replacing of old and damaged 100&150mm SW line with 200mm SW sewer line from Vazhuthacadu Mohanan road towards CSM Nagar Vazhuthacadu ward	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Work ongoing
15	State Plan 2023-24-TSS- Reconstruction of old dilapidate brick manhole with RCC and raising o f manhole covers in LEFT and WEST R C area under Sewerage Section ,Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2025	Work ongoing
16	State Plan 2023 - 24 - TSS - Providing and laying 200 mm SW sewer line at Subramoniam lane near Edapazhinji	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Agreement Executed
17	State Plan 2023-24-TSS- Replacing of old and damaged 100 mm sewer line .with 200 SW sewer line in Kowdiar SS Kovil F lane	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
18	State Plan 2023-24-TSS- Providing and laying250mm SW sewer line from Paloor lane House no.KPRA A55(2) to Koonamkulam pond near transformer	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Agreement Executed
19	State Plan 2023-24-TSS- Replacing of old and damaged 150&200 mm SW sewer line with 300mm SW sewer line from Artech Rama Appartment through Panicker's lane F lane	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
20	State Plan 2023-24-TSS- Providing CI manhole cover , raising of cover slab in road level and levelling the undulated portion of Kedaram lane and branch road of Pattom ward	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Tendered

21	State Plan 2023-24-TSS- Replacing of old and damaged 100 &150 mm SW sewer line with 200 SW sewer line in Kanaka Nager Residence area	Sewerage Division, KWA, Trivandrum	State Plan	31.06.2025	Work ongoing
22	State Plan - 2023-24-TSS- Reconstruction of old dilapidated brick manholes with RCC and raising of manhole cover in the central and right RC area under Sewerage Section,Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
23	State Plan - 2023-24-TSS- Reconstruction of old dilapidated brick manholes and construction of New manholes in various places at Palkulangara, Pettah ward, manhole cover sewerage section -1	Sewerage Division, KWA, Trivandrum	State Plan	Completed	Completed
24	State plan 2023 - 24 - TSS - Reconstruction of old dilapidated brick man holes , construction of new man holes, raising of man holes & supplying CI MH covers in Pettah,Kannanmmoola & Kunnukuzhy, Pattom wards	Sewerage Division, KWA, Trivandrum	State Plan	30-06-2025	Work ongoing
25	State Plan 2023 - 24 - TSS - Reconstruction of old dilapidated brick man holes, raising of man holes & supplying CI MH covers in Valiyasala, Nedumcadu Chalai Kuriyathy,Attukal wards,	Sewerage Division, KWA, Trivandrum	State Plan	15-02-2025	Work ongoing
26	State Plan 2023 - 24 - TSS - Reconstruction of old dilapidated brick man holes construction of new man holes, raising of man holes & supplying CI MH covers in Arannoor ,Jagathy, Karamana, Poojappura, mudvanmugal, Kalady wards	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed

27	State Plan 2023 - 24 - TSS - Rehabilitation of sewer lines construction of new man holes, Reconstruction of old dilapidated man holess, raising of man holes & supplying CI covers IN Thampannoor , Vanchiyoor, Palayam, vazhuthacadu and Thycadu wards	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Retendered
28	State Plan 2023 - 24 Supply and Laying 200mm SW pipe near to Chilanthivala pond,Elamkom and replacing the existing sewer line from Chilathivala pond towards Elamkom road	Sewerage Division, KWA, Trivandrum	State Plan	28-02-2025	Work ongoing
29	State Plan 2023 - 24 -TSS- Providing and laying 200mm SW sewer lines in Manjadimoodu Residence Association and PRA Lane No.1 in Padayani lane in Maruthumkuzhy.	Sewerage Division, KWA, Trivandrum	State Plan	30.06.2025	Agreement Executed
30	State Plan 2023 - 24- TSS- Providing and Laying 150mm SW Sewer line towards Green Valley Residents associaton (GVRA) in Muttada- Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan	completed	Completed
31	State Plan 2023 - 24 -TSS- Providing 200mm SW sewer line in branches in Maruthumkuzhy area near Udiyanoor Temple (Kshethara kadavu lane, Udiyanoor lane, Sivashankara Lane & Thamburan Lane)	Sewerage Division, KWA, Trivandrum	State Plan	30.05.2025	Work ongoing
32	State Plan 2023 - 24-TSS- Providing and laying 200mm SW pipe sewer lines in 2 branches along Bains compound- near Nanthancode junction- Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan	31.01.2025	Completed
33	State Plan 2023-24- TSS- Urgent relaying of damaged gravity main at Sreevaraham junction	Sewerage Division, KWA, Trivandrum	State Plan	31-03-2025	Tendered

34	State Plan 2023-24 -TSS - Increasing the capacity of sewage pipe line and reconstructing RCC manholes in Chembakassery, Eenchakkal Vallakkadavu road & Plancheri Lane at Perunthanni Ward	Sewerage Division, KWA, Trivandrum	State Plan	28-02-2025	Work ongoing
35	State Plan 2023-24-TSS- Increasing capacity of SW pipe from Garudan Junction to Market Junction in Sreevaraham Ward including Payikkattu lane, Panamoodu lane, Ullattu lane. Adikkathara lane (SKRA-1 to107) & Kilikkodu Lane	Sewerage Division, KWA, Trivandrum	State Plan	31-03-2025	Work ongoing
36	State Plan 2023-24-TSS - Rehabilitation of damaged sewer line and reconstruction of old dilapidated brick manholes in Fort & Enchakkal area	Sewerage Division, KWA, Trivandrum	State Plan	31-12-2025	Tender evaluation
37	State Plan 2023-24-TSS Plan 30- 2023 - 24 - TSS - Rehabilitation of existing damaged 100 mm CI pipe with 160 mm 10 kg/cm ² PVC pipe. construction of new manholes at Thaliyal Residential Association from TRWA-413 to TRWA-419 & supply and laying 250 mm SW pipe in Harisree Residential Association (HSRA-D-47to KSRA-D-43) & TR WA.- 200- TRWA-235 at Kalady	Sewerage Division, KWA, Trivandrum	State Plan	30-06-2025	Work ongoing
38	State Plan 2023-24-TSS - Rehabilitation of existing damaged 100mm pvc pipe to 200mm SW pipe at Nandavanam in Valiasala ward from electric post no T/MK/15 to TC/23/90,91, electric post no T/MK/12 to electric post no T/MK/9, and electric post no T/MK/8 to electric post no T/MK/6	Sewerage Division, KWA, Trivandrum	State Plan	30-04-2025	Agreement Executed
39	State Plan 2023-24-TSS- Rehabilitation of sewer main from Sivanagar to Pump house road across Killipalam Attakulangara Bypass	Sewerage Division, KWA, Trivandrum	State Plan	Dropped	Dropped

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

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

STATE PLAN 2024-25

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

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

15	State Plan 2024-2025- Replacing of old and damaged sewer line from Ambalamukku Vrindavan Gardens to Oolampara junction for Rectify Sewerage overflow in Ambalamukku sreekrishna Temple	Sewerage Division, KWA, Trivandrum	State Plan		
16	State Plan 2024-25-Manhole construction- -Reconstruction of old dilapidated brick manholes with R C C and Raising of manhole covers in the areas under Sewerage Section , Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Work ongoing
17	State Plan 2024-2025 Replacing of old and damaged sewer line from Vazhuthacadu Mohanan road towards CSM nagar Balance work at Vazhuthacadu ward	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Work ongoing
18	State Plan 2024-2025- Laying of New Sewerage Line at Sasthamangalam, Kurups Lane, N Lane & Thamarakkulam Lane, Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan	31.06.2025	Work ongoing
19	State Plan-2024-25 - TSS- Replacing 500 mm CI pumping main from Kannamoola to Muttathara Sewerage Treatment Plant by HDPE 630mm dia pipe using horizontal directional drilling method	Sewerage Division, KWA, Trivandrum	State Plan		Dropped
20	State Plan-2024-25-TSS – Replacing 450 mm CI pumping main from Pattoor to Muttathara Sewerage Treatment Plant by HDPE 500mm Outer dia pipe using horizontal directional drilling method	Sewerage Division, KWA, Trivandrum	State Plan		Dropped
21	State Plan-2024-25 - providing roofing sheet for diesel generator installed at Plamoodu, Murinjapalam, Kannamoola and Pattoor pump houses, walking arrangements at bottom portion inside plamoodu pump house and replacing screening at grid chamber at Plamoodu, Murinjapalam and Pattoor pump houses	Sewerage Division, KWA, Trivandrum	State Plan	31.05.2025	Work ongoing

22	State Plan-2024-25 - TSS-Supply, erection, trial-run and commissioning of c/f stand by pump set at Kannammoola pump house	Sewerage Division, KWA, Trivandrum	State Plan	25.03.2025	Work Awarded
23	State Plan-2024-25 - TSS-Supply, erection, trial-run and commissioning of c/f stand by pump set at Plamoodu pump house	Sewerage Division, KWA, Trivandrum	State Plan	30.04.2025	Work Awarded
24	State Plan-2024-25 - TSS-Supply, erection, trial-run and commissioning of c/f stand by pump set at Murinjapalam pump house	Sewerage Division, KWA, Trivandrum	State Plan	30.08.2024	
25	State Plan-2024-25 - TSS - Supplying, erection and commissioning of electronic soft starter suitable for 70 HP sewage motor at Pattoor Pump House	Sewerage Division, KWA, Trivandrum	State Plan	25.08.2025	Tendered
26	STATE PLAN 2021-22 TSS - Providing and laying 350 mm SW sewer line from House.No.U - 52 to newly laid man hole at Njaramoodu	Sewerage Division, KWA, Trivandrum	State Plan	30.08.2025	Work ongoing
27	State Plan - 2024-25 - Providing and laying 200 mm dia SW sewer line from Jagathy Bund Road towards Jagathy junction near bridge	Sewerage Division, KWA, Trivandrum	State Plan	30.10.2025	Work ongoing
28	Block Zone II - Supplying, conveying, laying and jointing 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam - Kannammoola (Ch 849m to 1077m)	Sewerage Division, KWA, Trivandrum	State Plan	05.12.2025	Retendered
29	Block Zone II -Supplying, conveying Laying and jointing 700mm dia RCC NP3 pipe sewer trunk main II from Murinjapalam - Kannammoola under Sewerage Project Section, Plamoodu (Ch.572m to 787m)	Sewerage Division, KWA, Trivandrum	State Plan	05.12.2025	Retendered
30	State Plan 2024-25 - TSS - laying of sewer line from KBAC Junction-towards Lenin Nagar(Balance work) under Sewerage Project Section, Plamoodu	Sewerage Division, KWA, Trivandrum	State Plan	25.07.2025	Work ongoing

31	State Plan 2024-2025- Supplying and laying sewer lines in Velavilakom lane in Padayani- Manjadimood road	Sewerage Division, KWA, Trivandrum	State Plan	13.07.2025	Work ongoing
32	State Plan 2024-2025- Comprehensive Proposal for Infra structure Enhancement of Sewerage Treatment Plant at Muttathara	Sewerage Division, KWA, Trivandrum	State Plan		
33	State Plan - 2024 - 25 - Providing new sewer line from Chitra Nagar junction towards Vivekananda Nagar near Edappazhinji SK Hospital	Sewerage Division, KWA, Trivandrum	State Plan	30.09.2025	Work ongoing
34	State Plan- -2024-25- Protective shelter for sewer cleaning machines and arranging control station for sewer cleaning machines and vehicles in Sasthamangalam	Sewerage Division, KWA, Trivandrum	State Plan		Work ongoing
35	State Plan-2024-25-TSS - Reconstruction of old dilapidated brick manholes and construction of new manholes in various places under Sewerage section -1.- Reconstruction of old dilapidated brick manholes and construction of new manholes in various places under Sewerage section -1- ZONE-1-Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan		Work ongoing
36	State Plan-2023 -2024 - NGT Rectification of breakage line towards Pattoor Pump House from narrow lane between Indian Veneer Company and canal(Amayizhanjan thodu) near Pattoor junction-under Sewerage section no II, Kuriathy-Sewerage Work	Sewerage Division, KWA, Trivandrum	State Plan		Work ongoing

STATE PLAN 2025-26

1	State plan - 2025-26- Manhole construction - reconstruction of all old dilapidated brick manholes with RCC and raising of manholes covers in the areas under sewerage section, Sasthamangalam.	Sewerage Division, KWA, Trivandrum	State Plan		AS Received

2	State plan - 2025-26- Providing and laying SW Sewer line at Mannammoola, Edakulam Surya Garden area - sewerage wor	Sewerage Division, KWA, Trivandrum	State Plan		AS Received
3	State plan - 2025-26- Tagore Garden - Replacing of old and damaged SW Lines with new higher sized sewer lines in Medical college, Tagore Garden towards Thamarabhagam.	Sewerage Division, KWA, Trivandrum	State Plan		AS Received
4	State plan - 2025-26- Replacing of old, under sized and damaged see lines with New SW line from Ration shop near Kattachal Bhagavathy Temple towards Bhagavathy Lane	Sewerage Division, KWA, Trivandrum	State Plan		AS Received
5	State plan - 2025-26- Replacing of old, under sized and damaged sewer line with new SW Sewer line near Asif Biriyan Hotel at Kesavadasapuram - Ulloor Road.	Sewerage Division, KWA, Trivandrum	State Plan		AS Received
6	State plan - 2025-26- Providing and laying SW sewer line near Sabarigiri School and varies places in Kuravankonam Ward.	Sewerage Division, KWA, Trivandrum	State Plan		AS Received

AMRUT

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

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

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

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

27	AMRUT 2.0 - Replacing of Old and damaged sewer line in Kunnukuzhi R C Street	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
28	AMRUT 2.0 -Providing new sewer line in Mele veedu Madan kovil & Kukiliar lane fom house no. KLRA 80 to KLRA 125 in Jagathy ward	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
29	AMRUT 2.0--Providing new Sewer line in Idavakkadu line at Vikramapuram Hill and Kalathilpuzha line in Kanjirampara	Sewerage Division, KWA, Trivandrum	AMRUT		Ongoing
30	AMRUT 2.0 -Replacing old and damaged sewer line at Althara main street and street in front of Heera Blue Berry	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
31	AMRUT 2.0 -Providing new sewer line near Udarasiromani Jhanardhanan Pillai road in Vazhuthacadu ward	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
32	AMRUT 2.0 - Providing new sewer line at Housing Board colony in Kuravankonam.	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
33	AMRUT 2.0 -Providing new sewer line at Vinayaka nagar towards Arappura area	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter
34	Amrut 2.0 Providing new sewer line and replacing and upgrading of old and damaged sewer line from Ambalamukku Vrindavan Gardens to Oolampara junction for rectifying Sewerage overflow in Ambalamukku Sreekrishna	Sewerage Division, KWA, Trivandrum	AMRUT		Nonstarter

SMART CITY

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

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

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

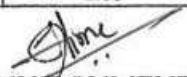
14	TSS - SCTL - Deviation of sewer line and reconstruction of brick man holes in the roads constructing under Smart city project roads with ID 144 (PWD PH -4B) in OVER BRIDGE TO UPPIDAMMOODU JN Chainage +00 to +731	Sewerage Division, KWA, Trivandrum	DEPO-SCTL		Completed
15	TSS - SCTL - Deviation of sewer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

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

MLA- ADS

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

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


 ASSISTANT ENVIRONMENTAL SCIENTIST

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

SL NO	PARAMETER	RIVER-NEYYAR		RIVER- KARAMANA		RIVER- MAMOM	RIVER- AYIROOR	RIVER- VAMANAPURAM
		Amaravila	Aruvippuram	Aruvikkara	Moonnattumukku	Mamom	Ayiroor	Vamanapuram
1	Temperature, 0°C	28	28	29	30	29	30	29
2	Dissolved Oxygen, mg/l	7.3	6.5	7.6	6.7	7.5	7.4	7.2
3	pH	6.8	6.7	6.3	6.8	6.9	6.5	7.1
4	Conductivity, µmhos/cm	132	86	57	1098	121	393	79
5	BOD, mg/l	1.1	1.2	1.3	3.9	1.2	1 (BDL)	1 (BDL)
6	Nitrate-N, mg/l	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)	0.3 (BDL)
7	Turbidity, NTU	1 (BDL)	1 (BDL)	1 (BDL)	3.1	1 (BDL)	1.1	1 (BDL)
8	Phenolphthalein Alkalinity, mg/l	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)	5 (BDL)
9	Total Alkalinity, mg/l	28	20 (BDL)	20 (BDL)	116	34	28	20 (BDL)
10	Chloride, mg/l	24	12	19	224	20	104	24
11	COD, mg/l	5 (BDL)	5 (BDL)	5 (BDL)	64	5 (BDL)	5 (BDL)	5 (BDL)
12	TKN, mg/l	1.5 (BDL)	1.5 (BDL)	1.5 (BDL)	5.8	1.5 (BDL)	1.5 (BDL)	1.5 (BDL)
13	Ammoniacal-N, mg/l	0.4 (BDL)	0.4 (BDL)	0.4 (BDL)	4.5	0.4 (BDL)	0.4 (BDL)	0.4 (BDL)
14	Hardness as CaCO3, mg/l	24	12	10(BDL)	168	36	40	20
15	Calcium as CaCO3, mg/l	16	8	6	108	20	24	12
16	Magnesium as CaCO3, mg/l	8	4 (BDL)	4 (BDL)	60	16	16	8
17	Sulphate, mg/l	5 (BDL)	5 (BDL)	5 (BDL)	23.2	5 (BDL)	5 (BDL)	5 (BDL)
18	Calcium (Ca2+), mg/l	6.41	3.21	2.40	43.29	8.02	9.62	4.81
19	Magnesium (Mg2+), mg/l	1.944	0.972	0.972	14.58	3.888	3.888	1.944
20	Sodium, mg/l	14.2	8.5	10.5	130.2	11	55	12.9
21	Total Dissolved Solids, mg/l	75.5	48	49.5	624	68	225	67
22	Total Fixed Solids, mg/l	22	19	24	210	31	95	32
23	Total Suspended Solids, mg/l	10 (BDL)	10 (BDL)	10 (BDL)	132	14	23	15
24	Phosphate, mg/l	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)
25	Boron, mg/l	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)	0.5 (BDL)
26	Potassium, mg/l	4.8	3.6	7.8	25.4	5.2	24	7.5
27	Fluoride, mg/l	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)	0.2 (BDL)
28	Total Coliform, MPN/100 ml	2500	2600	1400	5500	2500	2100	840
29	Fecal Coliform, MPN/100 ml	1300	1700	1100	3700	1400	1300	200
30	Fecal Streptococcus, MPN/100 ml	1.8 (BDL)	1.8 (BDL)	1.8 (BDL)	1.8(BDL)	1.8 (BDL)	1.8 (BDL)	1.8 (BDL)
31	% SODIUM	50.6	52.7	53.4	58.5	35.9	62.9	48.7
32	SAR	1.26	1.06	1.43	4.36	0.80	3.80	1.25

National Mission for Clean Ganga

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

RIVER MANIMALA, ALAPPUZHA

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT-Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2021	NIL
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	Since Large Land holding by local residents on the bank, No
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning	22.01.2020	Such issues arises, no need of steps since
5	Chief Secretaries may set up appropriate monitoring mechanism at state level • 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
	• Monitoring at State level must take place	22.01.2020	NIL
6	Progress report may be furnished by the State/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	22.01.2020 Fortnightly commencing	NIL
6.1	Progress Report may be comprised of details along with completion timelines on:	21.12.2019	Drains contributing to river

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

	(vii)Ground water regulation (viii) Adopting good irrigation practices (ix) Protection and management of food plain Zones (FPZ) (x) Rain water harvesting (xi)Maintaining minimum Environmental flow of river (xii) Plantation on both sides of the river (xiii)Setting up biodiversity parks on flood plains by removing encroachment		be initiated. Action will be initiated. Action will be initiated. Action will be initiated. Action will be initiated. Action will be initiated.

ACTION PLAN FOR RIVER PAMBA, KERALA

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of Apr 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
A(a)	Monitorng of river water quality	Kerala State Pollution Control Board	Continuing project				100%	NIL
A(b)	Rendering Plant at Eraviperoor or Thiruvalla	Eraviperoor/ Thiruvalla local body	31.03.2021				0%	Work to be initiated
C(ii)	Fencing of bridges, desilting,	Irrigation	31.03.2021				0%	Work to

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

C	Door to door collection of solid waste & Material Collection Facilities (MCF) & Resource Revcovery Facilities (RRF)	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoorpanchayaths	31.12.2020					NA	NA

ACTION BY GROUND WATER DEPARTMENT

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

	Identification of illegal bore wells in the catchment area.	catchment area.						

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

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

National Mission for Clean Ganga

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

RIVER PAMBA, PATHANAMTHITTA JUNE 2025

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT- Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2025	Projects for to be taken
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	„	„
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning	„	„
5	Chief Secretaries may set up appropriate monitoring mechanism at state level • 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	-
	• Monitoring at State level must take place	NA	-
6	Progress report may be furnished by the State/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	NA	-
6.1	Progress Report may be comprised of details along with		

	completion timelines on: (I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. (II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (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 (iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; (vi) Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including		Presently no STP in the panchayat Presently no CETP or ETP in the panchayat Door to door plastic waste collection, Supply of waste bins, Construction of compost pits etc. Not Available Biomedical waste disposed through IMAGE , Plastic waste collected door to door by Haritha Karma Sena Yes, Going On

	waste generated from hotels, Ashrams, etc. (vii)Ground water regulation (viii) Adopting good irrigation practices (ix) Protection and management of food plain Zones (FPZ) (x) Rain water harvesting (xi)Maintaining minimum Environmental flow of river (xii) Plantation on both sides of the river (xiii)Setting up biodiversity parks on flood plains by removing encroachment		- Yes, Going On Yes, Going On

ACTION PLAN FOR RIVER PAMBA, KERALA

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of April 2024	Progress in the month of May 2024	Progress in the month of JUNE 2024	% works completed	Details of works remaining
A(a)	No industries	-	-	-No industries	No industries		-	-

A(a)	Monitoring of river water quality	Kerala State Pollution Control Board	Continuing project					
C(ii)	Establishment of decentralized solid waste treatment facility	MannarPanchayat, Kadapra/ NiranamPanchayath	31.03.2021	THUMBOORMOOZHI MODEL AEROBIC COMPOST 4 UNIT IN PANCHAYTH&2 UNIT IN PRIVATE BUS STAND	THUMBOORMOOZHI MODEL AEROBIC COMPOST 4 UNIT IN PANCHAYTH&2 UNIT IN PRIVATE BUS STAND	THUMBOORMOOZHI MODEL AEROBIC COMPOST 4 UNIT IN PANCHAYTH&2 UNIT IN PRIVATE BUS STAND		
C	Establishment of Material Collection Facility	MannarPanchayat, Kadapra/ NiranamPanchayath	31.03.2021	Work in progress	Work in progress	Work in progress	70%	flooring completed
C	Resource Recovery Facility	MannarPanchayat, Kadapra/ NiranamPanchayath	31.03.2021	NA	NA	NA	NA	
C	Installing household and community level solid waste management units	MannarPanchayat	31.03.2021	PLASTIC WASTE COLLECTION	- PLASTIC WASTE COLLECTION	PLASTIC WASTE COLLECTION	-	
C	Door to door collection and transportation of municipal solid waste	MannarPanchayat	31.03.2021	Plastic waste collection 78%	Plastic waste collection 75.74%	Plastic waste collection 74.64%	-	25.36%
C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of	KadapraPanchayat	31.12.2020					

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

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

ACTION BY GROUND WATER DEPARTMENT

Sl. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Progress in the month of April 2024	Progress in the month of May 2024	Progress in the month of JUNE 2024	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over					

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

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

SL.N o	Name of Drain	Parameters														
		pH			Electrical Conductivity(μS/cm)			BOD(mg/l)			TC(Nos/100ml)			FC		
	Months	APR	MAY	JUNE	APR	MAY	JUNE	APR	MAY	JUNE	APR	MAY	JUNE	APR	MAY	JUNE
1	Parumala Drain	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
2	MannarTown Drain	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3	Kuriyathkadavu Thodu	NIL	7.1	7.7	NIL	71.28	29.06	NIL	1.65	0.672	NIL	1000	1000	NIL	600	600
4	KaruvelilThodu	7.85	7.6	7.5	45.41	45.2	32.67	1.632	1.92	3.552	4000	3600	1200	2500	1600	200
5	Nochithodu	7.53	7.5	7.4	43.64	48.96	29.98	2.59	1.344	0.864	4200	3400	800	2200	1200	300
6	Pattaparambil Thodu	7.06	7.53	7.3	80.58	59.12	29.17	0.27	2.688	0.576	800	2200	1400	300	1200	700
7	Kappiyarissery Thodu	6.86	7.41	7.2	79.38	53.5	37.06	1.362	1.824	1.632	2900	1500	800	1500	800	600
8	Kombankery Thodu	7.22	7.5	7.1	45.01	49.38	30.49	1.968	2.592	0.576	2500	1000	800	1600	500	700
9	Perackalthodu	7.53	7.63	7.2	52.77	62.27	34.38	1.728	3.648	2.496	3000	2300	800	1500	1600	600
10	Erathodu	7.83	7.41	7.3	56.16	50.5	34.87	1.248	0.96	2.496	2600	800	400	1200	200	300
11	Kolarayaru	7.88	7.22	7.2	45.5	48.96	27.76	1.152	1.152	0.672	2500	1000	1000	1000	300	100

WATER QUALITY DATA OF POLLUTED RIVER STRETCHES JUNE-2025

DISTRICT OFFICE, PATHANAMTHITTA

Date of Sampling: 04.06.2025

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


10/7/25

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

Sampling Date: 04.06.2025

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


 10/7/25
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 ജലവിജ്ഞാൻ സമരസമിതി

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 • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose		
	• Monitoring at State level must take place		
6	Progress report may be furnished by the State/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB		

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

ACTION PLAN FOR RIVER PERIYAR, KERALA

SHORT TERM MEASURES

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

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

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

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

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

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

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

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

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

				regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation. 1. Kuthuthodu (IRR/IA/EST/8495/2022-5-8-7) Rs. 74.40 lakh 2. Emadhodu (IRR/IA/EST/8495/2022-5-11-10) Rs. 9/- lakh These works have not been sanctioned. Report submitted to CEE on 17/02/2024.	been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation. 1. Kuthuthodu (IRR/IA/EST/8495/2022-5-8-7) Rs. 74.40 lakh 2. Emadhodu (IRR/IA/EST/8495/2022-5-11-10) Rs. 9/- lakh These works have not been sanctioned. Report submitted to CEE on 17/02/2024.	been handed over. As there are complaints from the residents regarding encroachment, a letter has been sent to the Assistant Executive Engineer, Paravur Tehsildar for boundary demarcation. A letter has also been submitted through the Collectorate. The project includes 218 meters of side protection and 1000 meters of desilting. The SE has informed that a report should be submitted to the Collector highlighting the issue of demarcation. 1. Kuthuthode (IRR/IA/EST/8495/2022-5-8-7) Rs. 74.40 lakh It has been taken up under the Operation vessel. The initial phase of the desilting work has commenced. It was informed that the work will proceed depending on a reduction in rainfall.		
(iii)	Clearing of weeds, grasses at the river bank in order to ensure the smooth flow of water	Irrigation department	3 years	Almost all the works have been completed in the 2024-2025 operation vessel. The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored.	Almost all the works have been completed in the 2024-2025 operation vessel. The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored.	Almost all the works have been completed in the 2024-2025 operation vessel. The work of removing the silt that was obstructing the water sampling in the upstream & downstream part of Patalam RCB has been completed (5 lakhs). The smooth flow of the river has been restored. The site has been handed over for the		

						project to remove banana plantations from the upstream and downstream areas of the Pathalam regulator. In the first phase, 10% of the work has been completed. Currently, the banks of the Pathalam and Manjummel rivers are clean.		
(a)	Maintaining of Minimum flow in river during lean period and periodical operation of Regulators at River in-order to maintain minimum flow.	Irrigation department	3 years	The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not been approved.	The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not been approved.	The shutters are being opened and operated at regular intervals. The protocol for operating the shutters has been prepared and sent to CEE. It has not been approved. Cleaning works have been arranged for a period of one year. Currently, all areas are free from waste.		
(b)	Common Effluent Treatment Plant at Edayar Industrial Estate	Industries department	2022	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."		

(b)	Construction of internal roads and proper drainage in Edayar industrial estate	Industries department		Road drainage works worth Rs. 9.47 crore have been completed in the Edayar Industrial Area under the MSE CDP project. In addition, 48% of the drainage works out of the Rs. 34 lakh allocated to the Public Works Department for the drainage works in the Edayar Industrial Area have been completed. All the works related to the maintenance and repair of the internal road have been completed. Joint inspection in collaboration with PCB and PWD conducted. Detailed sketch of the industrial estate was given to the concerned department for doing required rectification in drainage works.	Road drainage works worth Rs. 9.47 crore have been completed in the Edayar Industrial Area under the MSE CDP project. In addition, 48% of the drainage works out of the Rs. 34 lakh allocated to the Public Works Department for the drainage works in the Edayar Industrial Area have been completed. All the works related to the maintenance and repair of the internal road have been completed. Joint inspection in collaboration with PCB and PWD conducted. Detailed sketch of the industrial estate was given to the concerned department for doing required rectification in drainage works.	Road drainage works worth Rs. 9.47 crore have been completed in the Edayar Industrial Area under the MSE CDP project. In addition, 48% of the drainage works out of the Rs. 34 lakh allocated to the Public Works Department for the drainage works in the Edayar Industrial Area have been completed. All the works related to the maintenance and repair of the internal road have been completed. Joint inspection in collaboration with PCB and PWD conducted. Detailed sketch of the industrial estate was given to the concerned department for doing required rectification in drainage works. The feasibility report needs to be submitted to the PWD.		
(b)	Installation of common discharge pipe line at downstream of Pathalam Regulator Bridge	Industries department, Irrigation department	3 years	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."	Based on the minutes of the Environment-Chief Secretary's monthly review meeting with RRC/ Stakeholder Departments/ Authorities held on 9.2.2023 it is recorded as "The CETP project may be dropped and all the units may be advised to have their own facilities for treatment of effluent. The fund allotted for the project may be utilized for any other liquid waste treatment project."		

	Installation of Night vision surveillance cameras at the River Bank side	KSPCB	2020	Surveillance cameras and related equipment have been installed.	Surveillance cameras and related equipment have been installed.	Surveillance cameras and related equipment have been installed	1 0 0	
(a)(iv)	Periodical Monitoring of Eloor, Edayar, Kalamassery Industrial belts	KSPCB	2020	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	Inspections are being conducted and nighttime surveillance is being conducted continuously with the involvement of more staff.	1 0 0	
(a)(iv)	Monitoring of quality of water at various intake point	Kerala Water Authority	2020					
(a)(iv)	Installation of additional continuous online River water monitoring station	KSPCB	2022	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	A water monitoring station has been installed at the top of the bund. Tender processes are in progress for the installation of a station at the bottom of the bund.	1 0 0	
(b)	Identification of the establishments/commercial complexes/flats/houses/hotels etc who is discharging the sewage to the public drain	Kadungallur Panchayath	2020	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	Fines are being levied on establishments that dump sewage. It was suggested that an inspection be conducted to see if there are any establishments that dump waste into the Onjithottu.	5 0 %	

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

LONG TERM MEASURES

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

	River bank at industrial belt.			been deposited for survey work. Survey work started on 06/03/2025. 730m has been completed. Design work is also in progress.	been deposited for survey work. Survey work started on 06/03/2025. 730m has been completed. Design work is also in progress.	been deposited for survey work. Survey work started on 06/03/2025. 730m has been completed and another 470m survey work will be completed within a week. Design work is also in progress. The design from IDRB is available. The survey is currently in progress.		
C(i)	Fencing of the river banks along the stretches of waste disposal (Edamula stretch)	Cochin Municipal Corporation	1-2 years	Fencing works have been included in the budget. Beautification works are being carried out using own funds. 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	Fencing works have been included in the budget. Beautification works are being carried out using own funds.		
C(iii)	Beautification of the river stretches (Edamula stretch)	Cochin Municipal Corporation	1-2 years					

ACTION BY GROUND WATER DEPARTMENT

Sl. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Progress in the month of september 2024	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 April 2025

STNCode	Sampling Date	Sampling Time	StnName	Type Of Water Body	Name Of Water Body	River Basin	
17	08.04.2025	11:00	Periyar at Eloor	River	Periyar River		
1338	05.04.2025	10:40	Periyar at SDP Aluva	River	Periyar River		
2334	03.04.2025	11:10	Periyar at Pathalam	River	Periyar River		
2335	03.04.2025	12:00	Periyar at Kalamassery	River	Periyar River		
3468	05.04.2025	11:05	Periyar at KWA Aluva	River	Periyar River		
2337	01.04.2025	12:30	Kadambrayar At Brahmapuram	River	Kadambrayar River		
2338	01.04.2025	11:30	Kadambrayar At Manackakadavu	River	Kadambrayar River		
1573	01.04.2025	1:00	Chithrapuzha At Irumpanam	River	Chithrapuzha River		
1154	05.04.2025	1:30	Chalakudy at Pulikkakadavu	River	Chalakudy River		

Sl. No.	Parameters	Values								
		Station Code								
		17	1338	2334	2335	3468	2337	2338	1573	1154
1	Temperature, °C	27	27	29	30	27	27	27	27	28
2	Dissolved Oxygen, mg/l	5.5	5.9	7.7	5.8	7.4	0.3	1.9	3.9	7.4
3	pH	6.9	7.4	8.4	8.7	7.4	9.7	7.2	8.7	7.4
4	Conductivity, µmhos/cm	5720	56	10300	44	42	271	121	2270	105
5	BOD, mg/l	1.8	2.8	3	1	2.1	4.2	3	3	1.4
6	Nitrate-N, mg/l	0.07	0.09	0.07	BDL	BDL	BDL	BDL	3.2	1.47
7	Turbidity, NTU	1.4	0.9	0.8	0.9	0.5	4.4	7.7	11.3	1.1
8	Phenolphthalein alkalinity	BDL	BDL	BDL	BDL	BDL	10	3	BDL	BDL
9	Total Alkalinity, as CaCO ₃	30	17	3	17	18	28	29	8	60
10	Chloride, mg/l	2096	7.5	3543	8	5.5	57.9	19.5	749	7.2
11	COD, mg/l	5.6	8.0	8.8	3.2	6.4	12.8	8.8	8.8	4
12	TKN, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2	BDL
13	Ammoniacal-N, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	BDL
14	Total Hardness, as CaCO ₃ mg/l	700	20	1500	14	12	34	24	500	83
15	Calcium, as CaCO ₃ mg/l	600	9	1000	6	5	7	5	100	10
16	Magnesium as CaCO ₃ , mg/l	100	11	500	8	7	27	19	400	73
17	Sulphate, mg/l	100	BDL	255	BDL	BDL	6	BDL	77.5	4
18	Sodium, mg/l	1362	5	1900	5.2	4	37.6	12.6	400	5
19	Total Dissolved Solids, mg/l	3910	35	7500	37	32	160	72	1660	90
20	Total Fixed Solids, mg/l	3128	28	6000	30	26	128	58	1328	72
21	Total Suspended Solids, mg/l	8	2	13	1	BDL	9	20	12	6
22	Phosphate, mg/l	BDL	BDL	0.7	BDL	BDL	BDL	BDL	20.09	BDL
23	Boron, mg/l	0.283	BDL	0.696	BDL	BDL	0.007	BDL	0.103	BDL
24	Potassium, mg/l	62	1.2	75.00	1.2	1	2.6	3	9	0.8
25	Fluoride, mg/l	BDL	0.18	BDL	0.01	0.1	BDL	BDL	BDL	0.01
26	Total Coliform, MPN/100 ml	7000	21000	7000	5800	2600	7000	79000	25000	2800
27	Feecal Coliform, MPN/100 ml	2700	7900	4100	260	920	2800	31000	7900	1500
28	Feecal Streptococci, MPN/100ml	540	410	580	46	10	540	2400	240	380

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

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

Sl. No.	Parameters	Values									
		Station Code						2337	2338	1573	1154
		17	1338	2334	2335	3468					
1	Temperature, °C	29	28	30	29	28	NO SAMPLING , DUE TO DENSE MATS OF WATER HYACINTH	29	29	29	
2	Dissolved Oxygen, mg/l	4.4	5.7	7.0	5.6	6.5		1.6	1.1	6.2	
3	pH	9.0	7.7	8.5	8.5	7.4		6.7	6.6	7.1	
4	Conductivity, µmhos/cm	3430	47	3500	54	52		100	655	324	
5	BOD, mg/l	1.5	2.8	2.7	1.9	2.8		3.2	3	3.1	
6	Nitrate-N, mg/l	0.18	BDL	0.05	0.023	0.023		0.07	0.27	0.5	
7	Turbidity, NTU	2.4	1.3	1.3	0.6	1.3		10.1	3.9	3.9	
8	Phenolphthalein alkalinity	11	3	7	5	3		BDL	0	1	
9	Total Alkalinity, as CaCO3	33	12	16	14	13		20	10	13	
10	Chloride, mg/l	1030	3.9	1174	4.9	5		13.7	155	82.2	
11	COD, mg/l	4.8	8.0	8	5.6	8		9.6	8.8	8.8	
12	TKN, mg/l	BDL	BDL	BDL	BDL	BDL		BDL	4.5	2.24	
13	Ammoniacal-N, mg/l	BDL	BDL	BDL	BDL	BDL		BDL	2.03	1.55	
14	Total Hardness, as CaCO3 mg/l	550	14	540	13	17		22	37	70	
15	Calcium, as CaCO3 mg/l	540	10	500	9	13		18	23	65	
16	Magnesium as CaCO3, mg/l	10	4	40	4	4		4	14	5	
17	Sulphate, mg/l	165	7	167	3.2	10		3	21	20	
18	Sodium, mg/l	660.6	2.54	763.1	3.19	3.25		8.91	100	47.8	
19	Total Dissolved Solids, mg/l	2300	33	2450	32	41		59	364	227	
20	Total Fixed Solids, mg/l	1840	26	1960	26	33		47	291	182	
21	Total Suspended Solids, mg/l	7	10	8	10	10		10	10	10	
22	Phosphate, mg/l	BDL	BDL	BDL	BDL	BDL		0.14	8.75	BDL	
23	Boron, mg/l	0.232	0.064	0.322	0.029	0.057		0.05	0.083	0.041	
24	Potassium, mg/l	10	1	14.00	1	1		1	7	3	
25	Fluoride, mg/l	0.03	0.01	0.07	0.02	0.01		0.08	0.04	0.02	
26	Total Coliform, MPN/100 ml	1500	70000	5400	2800	7900		2500	4300	790	
27	Feecal Coliform, MPN/100 ml	480	7900	3400	2100	4600		2000	3200	330	
28	Feecal Streptococci, MPN/100ml	170	3500	280	310	3200		150	490	130	

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

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

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

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

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

* TURBIDITY METER IS OUT OF ORDER

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

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

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

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

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

* TURBIDITY METER IS OUT OF ORDER

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

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

Sl. No	Parameter	Unit	05.06.2025	25.06.2025
1	Temperature	°c	B	B
2	pH		U	U
3	Conductivity	µS/cm	N	N
4	TDS	NTU	D	D
5	Turbidity	mg/L		
6	Colour	"	O	O
7	SS	"	P	P
8	Chlorides	"	E	E
9	Hardness	"	N	N
10	D.O.	"		
11	COD	"		
12	Calcium	"		
13	Magnesium	"		
14	Ammoniacal Nitrogen	"		
15	Free Ammonia	"		
16	Phosphates			
17	Hexa Chromium	"		
18	Oil & Grease	"		
19	Iron	"		
20	Sulphides	"		
21	Sulphates	"		
22	Total Alkalinity	"		
23	Nitrate	"		
24	BOD	"		
25	TC	"		
26	FC	"		
27	FS	"		
28	Sodium	ppm		
29	Potassium	ppm		
30	SAR	meq/L		

* TURBIDITY METER IS OUT OF ORDER

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

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

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

* TURBIDITY METER IS OUT OF ORDER

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

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

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

* TURBIDITY METER IS OUT OF ORDER

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

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

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

* TURBIDITY METER IS OUT OF ORDER

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

NATIONAL WATER QUALITY MONITORING PROGRAMME (NWMP)

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

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

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

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

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

Station Name		Chalakudy			
Type of Water body		River			
Name of Water Body		Chalakudy			
Completed by		DO Thrissur			
Agency		KERALA STATE POLLUTION CONTROL BOARD			
1	Station Code	K52			
2	Date and time of sample taken (DD/MM/YY, HH/MM)	14.05.2025 11:30 PM			
3	Weather	Cloudy	Clear✓	Windy	Raining
4	Approximate depth of main stream	< 50 cm	50 – 100 cm	>100 cm✓	Flood
5	Color & Intensity	Clear✓ 1 = Light✓	Turbid 2 = Moderate	Green 3 = High	Brown
6	Odour	None✓	Fishy	H2S	Other
7	Floating Matter	Floating	Floating sludge	Oil & Grease	Water Hyacinth
8	Visible effluent discharges in proximity	Industrial	Municipal sewage	None	
9	Human activities around the station	Cattle wading	Farming✓	Fishing✓	Bathing Other✓
10	Location details	U/s of town or industrial area	D/s of town or industrial area✓	Pilgrim center/Bathing Ghat/Water intake	None
11	Flow rate				
12	Major polluting source	Industrial effluent	MSW✓	PW	None Other✓
13	Uses of water in downstream	Irrigation	Drinking water	Fishing✓	Domestic
		Organized water source	Cultivation✓	Bathing Ghat	Others✓

Sl. No	Determinants	Values
1	Temperature, 0C	27
2	Dissolved Oxygen, mg/l	7.2
3	pH	7.7
4	Conductivity, µmhos/cm	71
5	BOD, mg/l	0.5
6	Nitrate-N, mg/l	0.2
7	Turbidity, NTU	0.6
8	Total Alkalinity, mg/l	15
9	Chloride, mg/l	8
10	Ammoniacal-N, mg/l	BDL
11	Hardness as CaCO3, mg/l	22
12	Calcium as CaCO3, mg/l	18
13	Magnesium as CaCO3, mg/l	4
14	Sulphate, mg/l	4.6
15	Sodium, mg/l	4.9
16	Total Dissolved Solids, mg/l	38
17	Phosphate, mg/l	0.01
18	Boron, mg/l	BDL
19	Potassium, mg/l	1.24
20	Total Coliform, MPN/100 ml	50
21	Fecal Coliform, MPN/100 ml	10
22	Sodium Absorption Ratio (SAR)	0.5

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

SL.No	Determinant	Value
1	Temperature, °C	28
2	Dissolved Oxygen, mg/l	6.4
3	pH	8
4	Conductivity, µmhos/cm	610
5	BOD, mg/l	1.1
6	Nitrate-N, mg/l	1.5
7	Turbidity, NTU	BDL
8	Phenolphthalein Alkalinity, as CaCO ₃ mg/l	BDL
9	Total Alkalinity, as CaCO ₃ mg/l	95
10	Chloride, mg/l	85
11	COD, mg/l	4
12	TKN, mg/l	BDL
13	Ammoniacal-N, mg/l	BDL
14	Hardness, as CaCO ₃ mg/l	182
15	Calcium, as CaCO ₃ mg/l	130
16	Magnesium as CaCO ₃ , mg/l	52
17	Sulphate, mg/l	60
18	Calcium (Ca ²⁺), mg/l	52
19	Magnesium (mg ²⁺), mg/l	12.6
20	Sodium, mg/l	49
21	Total Dissolved Solids, mg/l	360
22	Total Fixed Solids, mg/l	234
23	Total Suspended Solids, mg/l	BDL
24	Phosphate, mg/l	BDL
25	Boron, mg/l	BDL
26	Potassium, mg/l	13
27	Fluoride, mg/l	0.3
28	Total Coliform, MPN/100 ml	8800
29	Fecal Coliform, MPN/100 ml	4400
30	Fecal streptococci , MPN/100 ml	320
31	% Sodium	34.93
32	SAR	1.58

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

Sl.No	Determinant	Value
1	Temperature, °C	28
2	Dissolved Oxygen, mg/l	7.2
3	pH	8
4	Conductivity, µmhos/cm	820
5	BOD, mg/l	2.2
6	Nitrate-N, mg/l	2
7	Turbidity, NTU	BDL
8	Phenolphthalein Alkalinity, as CaCO ₃ mg/l	2
9	Total Alkalinity, as CaCO ₃ mg/l	159
10	Chloride, mg/l	110
11	COD, mg/l	6
12	TKN, mg/l	BDL
13	Ammoniacal-N, mg/l	BDL
14	Hardness, as CaCO ₃ mg/l	250
15	Calcium, as CaCO ₃ mg/l	170
16	Magnesium as CaCO ₃ , mg/l	80
17	Sulphate, mg/l	69
18	Calcium (Ca ²⁺), mg/l	68
19	Magnesium (Mg ²⁺), mg/l	19.4
20	Sodium, mg/l	64
21	Total Dissolved Solids, mg/l	471
22	Total Fixed Solids, mg/l	306
23	Total Suspended Solids, mg/l	BDL
24	Phosphate, mg/l	BDL
25	Boron, mg/l	BDL
26	Potassium, mg/l	16
27	Fluoride, mg/l	0.4
28	Total Coliform, MPN/100 ml	3100
29	Fecal Coliform, MPN/100 ml	1600
30	Fecal streptococci , MPN/100 ml	360
31	% Sodium	33.98
32	SAR	1.76

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

S. No.	Activity to be monitored	Timeline	Submission of progress by state/UT-Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation		Survey Completed
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured		2 STP Projects 1) Pampad Flat STP 90% Work Completed 2) Bustand STPs Consent from PCB Obtained. Steps to make it functional are under progress – i.e project prepared for O&M.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		
5	Chief Secretaries may set up appropriate monitoring mechanism at state level - 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
	Monitoring at State level must take place		NA
6	Progress report may be furnished by the State/UTs to - Secretary, Ministry of Jal Shakti - Member Secretary, CPCB		NA
6.1	Progress Report may be comprised of details along with completion timelines on:		Already screen net placed to the both side of the Bridge and Periodic Inspection & Drainage Cleaning Doing

	(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. (II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (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 (iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; (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. (vii) Ground water regulation		Action plan prepared through KWA NA 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. NA Inspection activities doing 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

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

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

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

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

	State Water monitoring programme (SWMP)							
2.3	Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc. in Malappuram Municipal area	KSPCB	Ongoing; Interval; Red – 1 month, Orange- 3 months, Green- 6 months			Ongoing		
	3.Ground Water Department							
No.	Activity	Implementing agency	Time line	Progress in the month of March 2025	Progress in the month of April 2025	Progress in the month of May 2025	% of works completed	Details of works remaining
3.1.	Ground Water resources and regulation of ground water extraction by	Ground water Department		No action included in the approved action plan to be	No action included in the approved action plan to be	No action included in the approved action plan to be		

	industries particularly in over exploited as critical zones/blocks (Earlier status : As per Groundwater resources of Kerala, 2017 estimate a total number of 3 blocks (Mankada, Vengara and Malappuram) comes under the Kadalundi river basin. Out of three blocks Malappuram and Vengara are semi-critical blocks and the rest is a safe one, stage of groundwater extraction ranges from 69.43 % to 79.84%)			performed by Ground Water Department	performed by Ground Water Department	performed by Ground Water Department		
3.2	Ground water recharging / rain water harvesting (Earlier status : The average pre -monsoon	Ground water Department		No action included in the approved action plan to be	No action included in the approved action plan to be	No action included in the approved action plan to be		

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

	practices (Earlier status : The total irrigation draft in the area ranges from 979.683 - 1857.49 ha.m.)			Ground Water Departme nt	Ground Water Departme nt	Ground Water Departme nt		

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

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



ASSISTANT SCIENTIST

National Mission for Clean Ganga

**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 • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose.		
	• Monitoring at State level must take place		
6	Progress report may be furnished by the State/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB		Last updated report submitted was on May 23,2025
6.	Progress Report may be comprised of details		(i)Identified 17 drains out of which 9 were additionally

1	along with completion timelines on: I Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. II <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline 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 (iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; (vi) Preventing dumping of waste and scientific		identified on 11.07.2019 (ii) Tirur Fish Market STP - 45 KLD- working condition. Inspection was conducted by pollution control board and repairing works has been done as per the suggestions of pollution control board .laboratory analysis has been done and parameters found to be within limits (ii) Tirur municipal Bus StandSTP-50 KLD –Working Condition. Inspection was conducted by pollution control board and STP sample collected and laboratory analysis has been done and parameters found to be within limits. iii)NIL (iv)De centralized treatment facilities, Disposal using sanitary landfills, composting operations, MRF, MCF etc. Slaughter house- completed civil work. Electrical installation works started. (v)Attached as Annexure II-Analysis report during the month of May2025 BMW are being disposed scientifically through

waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc. (vii)Ground water regulation (viii) Adopting good irrigation practices, (ix) Protection and management of food plain Zones (FPZ), (x) Rain water harvesting, (xi)Maintaining minimum Environmental flow of river (xii) Plantation on both sides of the river (xiii) Setting up biodiversity parks on flood plains by removing encroachment	IMAGE. Municipality have MRF, MCF facilities (vii)NA viii)Complying (ix)NA (x) Complying (xi) Complying (xii) NA (xiii) Reported that encroachment survey is completed and now the process of laying survey stones is in progress.

ACTION PLAN FOR RIVER TIRUR, KERALA

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

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

								office of CE I&A in the presence of CE IDRB concluded to conduct a detailed technical study by an expert team. A Technical committee has been formed as per order number GO No.488/2024/WRDdated 28-06-2024. Technical committee team visited the site on 08.08.2024. As per the suggestion from technical committee, hydrographic survey conducted and drawings submitted to technical expert committee. Based on the meeting minutes of the Technical Expert Committee, DPR of 18.10 crores of the recast estimate has been submitted
3	4 TIRUR MUNICIPALITY – SHORT TERM ACTION PLAN							
No.	Activity	Implementing agency	Time line	Progress in the month of March 2025	Progress in the month of April 2025	Progress in the month of May 2025	% works completed	Details of works remaining
1.2.1	Provide septic tank for	Tirur	Dec 2019	Completed	Completed	Completed	100%	Completed

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

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

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

	hotels in Municipal area		months, Green- 6 months					
	5.Ground Water Department							
No.	Activity	Implementing agency	Time line	Progress in the month of March 2025	Progress in the month of April 2025	Progress in the month of May 2025	% works completed	Details of works remaining
1.5.1.	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks (Earlier status : As per Groundwater resources of Kerala, 2017 estimate a total number of 2 blocks (Tirur and Kuttippuram) comes under the Tirur river basin. These two blocks are semi-critical blocks and the stage of groundwater extraction ranges from 77.75 % to	Ground water Department		NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		

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

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

No.	Activity	Implementing	Time line	Progress in	Progress in	Progress in	% works	Details of works

		agency		the month of March 2025	the month of April 2025	the month of May 2025	completed	remaining
1.6.1	Protection of Thirur Ponnani River	Thalakkad grama panchayath handover fund to District Panchayat	31.03.2020			Completed		
1.6.2	Installation of CC TV camera on Yetterikadavu Kunjulikkadavu Mangattiri Bridge, Aikkanchiri Bridge, Paravanna Bridge	Vettom - KS SECURITY SYSTEM	Spill over due to lack of fund			Project for installation of cctv camera with high specification is decided to include 2024-25 annual projects		
1.6.3	Installation of CC TV camera	Mangalam grama panchayath Win Plus Agency, Kondotty	Completed			Completed		
1.6.4	Haritha Keralam Thirur- Ponnani puzha protection	Mangalam grama panchayath Nirmithi Kendra, Kozhikkodu	31.03.2020			Completed		

ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN TIRUR RIVER

FOR THE MONTH OF MAY 2025

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


ASSISTANT SCIENTIST

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

S. No.	Activity to be monitored	Timeline	Submission of progress by state/UT-Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation		Survey Completed
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured		2 STP Projects 1) Pampad Flat STP 90% Work Completed 2) Bustand STPs Consent from PCB Obtained. Steps to make it functional are under progress – i.e project prepared for O&M.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		
5	Chief Secretaries may set up appropriate monitoring mechanism at state level - 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
	Monitoring at State level must take place		NA
6	Progress report may be furnished by the State/UTs to - Secretary, Ministry of Jal Shakti - Member Secretary, CPCB		NA
6.1	Progress Report may be comprised of details along with completion timelines on:		Already screen net placed to the both side of the Bridge and Periodic Inspection & Drainage Cleaning Doing

	(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. (II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (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 (iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; (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. (vii) Ground water regulation		Action plan prepared through KWA NA 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. NA Inspection activities doing 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		

ACTION PLAN FOR RIVER KADALUNDI, MALAPPURAM, KERALA

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

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

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

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

	Oravambrum - State Water monitoring programme (SWMP)							
2.3	Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc. in Malappuram Municipal area	KSPCB	Ongoing; Interval ; Red- 1 month, Orange- 3 months, Green- 6 months			Ongoing;		
	3.Ground Water Department							
No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works complet ed	Details of works remaini ng
3.1.	Ground Water resources and	Ground water Department		No action included	No action included	No action included		

	regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks (Earlier status : As per Groundwater resources of Kerala, 2017 estimate a total number of 3 blocks (Mankada, Vengara and Malappuram) comes under the Kadalundi river basin. Out of three blocks Malappuram and Vengara are semi-critical blocks and the rest is a safe one, stage of groundwater extraction			in the approved action plan to be performed by Ground Water Department	in the approved action plan to be performed by Ground Water Department	in the approved action plan to be performed by Ground Water Department		

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

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

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

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



ASSISTANT SCIENTIST

National Mission for Clean Ganga
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RIVER TIRUR, MALAPPURAM

S. No.	Activity to be monitored	Timeline	Submission of progress by state/UT-Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation		
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured		STP Repairing project DPC approved and sent to TS
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		Action plan prepared
5	Chief Secretaries may set up appropriate monitoring mechanism at state level • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose.		
	• Monitoring at State level must take place		
6	Progress report may be furnished by the State/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB		Last updated report submitted was on June 25,2025
6.	Progress Report may be comprised of details		(i)Identified 17 drains out of which 9 were additionally

1	along with completion timelines on: I Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. II <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline 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 (iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; (vi) Preventing dumping of waste and scientific		identified on 11.07.2019 (ii) Tirur Fish Market STP - 45 KLD- working condition. Inspection was conducted by pollution control board and repairing works has been done as per the suggestions of pollution control board .laboratory analysis has been done and parameters found to be within limits (ii) Tirur municipal Bus StandSTP-50 KLD –Working Condition. Inspection was conducted by pollution control board and STP sample collected and laboratory analysis has been done and parameters found to be within limits. iii)NIL (iv)De centralized treatment facilities, Disposal using sanitary landfills, composting operations, MRF, MCF etc. Slaughter house- completed civil work. Electrical installation works started. (v)Attached as Annexure II-Analysis report during the month of June 2025 BMW are being disposed scientifically through

waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc. (vii)Ground water regulation (viii) Adopting good irrigation practices, (ix) Protection and management of food plain Zones (FPZ), (x) Rain water harvesting, (xi)Maintaining minimum Environmental flow of river (xii) Plantation on both sides of the river (xiii) Setting up biodiversity parks on flood plains by removing encroachment	IMAGE. Municipality have MRF, MCF facilities (vii)NA viii)Complying (ix)NA (x) Complying (xi) Complying (xii) NA (xiii) Reported that encroachment survey is completed and now the process of laying survey stones is in progress.

ACTION PLAN FOR RIVER TIRUR, KERALA

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

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

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

								.Based on the meeting minutes of the Technical Expert Committee, DPR of 18.10 crores of the recast estimate has been submitted to CE I&A TVM On 24/05/2025.
2	TIRUR MUNICIPALITY – SHORT TERM ACTION PLAN							
No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
1.2.1	Provide septic tank for nearest houses	Tirur Municipality	Dec 2019	Completed	Completed	Completed	100%	Completed
1.2.2	Establishment of Solid waste Treatment Plant ThumboorMozhi Model Aerobic Bin	Tirur Municipality	March 2020	Work ongoing	Work ongoing	Work ongoing	20%	Work ongoing
1.2.3	Establishment of Non Degradable waste treatment Plant Resource Recovery facility	Tirur Municipality	March 2020	DPR preparation	DPR preparation	DPR preparation	NA	DPR preparation

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

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

	Monitoring State Water monitoring programme (SWMP)		Seasonal					
1.4.3	Inspection and effluent quality monitoring of the flats, Industrial units, Service stations, hospitals, auditorium, hotels in Municipal area		Ongoing; Interval; Red – 1 month, Orange- 3 months, Green- 6 months			Ongoing		
	5.Ground Water Department							
No.	Activity	Implementing agency	Time line	Progress in the month of April 2025	Progress in the month of May 2025	Progress in the month of June 2025	% works completed	Details of works remaining
1.5.1.	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks (Earlier status : As per Groundwater resources of Kerala, 2017 estimate a	Ground water Department		NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT	NO ACTION INCLUDED UNDER THIS PLAN FOR GROUND WATER DEPARTMENT		

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

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

ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN TIRUR RIVER

FOR THE MONTH OF JUNE 2025

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

ACTION PLAN FOR RIVER KALLAYI , KERALA

Kerala State Pollution Control Board,District Office,Kozhikode

NATIONAL MISSION FOR CLEAN GANGA

Format for submission of monthly progress report by state/UTs

(Hon’ble NGT in the matter of OA.No.673/2018dated6/12/2018) For

the month of JUNE 2025– Kallayi polluted river stretch

Sl.No.	Activity to be monitored	Timeline	Submission of progress by state/UT-compliance status
1	Ensure 100%treatment of sewage at least in-situ remediation		
2	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STP must be ensured.		
3	Timeline for completing all steps of action plans including completion of setting up STP and their commissioning		
4	Chief secretaries may setup appropriate monitoring mechanisms at the state level ● Specifying accountability of nodal authorities not below the secretary level ● Chief secretaries may have an accountable Person attached in their office for this purpose		
	● Monitoring at the state level must take place		

5	Progress report may be furnished by the state/UTs to ● Secretary,ministry of Jal Shakti ● Member secretary,CPCB		
5.1	Progress report may be comprised of details along with completion timeline on: (i) Identification of polluting source including drains contributing to river pollution and action as per NGT order on in situ treatment. (ii) <u>status of STPs,I&D and sewage networks</u> Details of Existing Infrastructure,Gap Analysis,Proposed along with completion timeline (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. (iv) <u>status of solid waste management&details of processing facilities</u> Details of existing infrastructure,Gap analysis proposed along with completion timeline (v) Latest water quality of polluted river,its tributaries,drains with flow details and ground water quality in the catchment of polluted river; (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. (vii) Ground water regulation (viii) Adopting good irrigation practices (ix) protection and management of flood plain zones(FPZ), (x) Rainwater harvesting (xi) Maintaining minimum environmental flow of river (xii) Plantation on both sides of the river (xiii) Setting up bio diversity parks on flood plains by removing encroachment		Monthly progress report enclosed

KOZHIKODE CORPORATION

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

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

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

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

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

Perumanna Grama Panchayath

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

	Naveekarana, project no 260/2021 project cost 16.67 Lakhs).						
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 Payyathi methal where the river is flowing	Perumanna Panchayat , Kozhikode through MGNREGS			Completed.	Completed.	
10	Collection of plastic Waste from the river	Perumanna Panchayat			Process will be done every year	Continuous	Continuous

Peruvayal Grama Panchayath

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

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

Mavoor Grama Panchayat

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

OLAVANNA GRAMAPANCHAYAT

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

IRRIGATION DEPARTMENT

N o	Activity	Implementing Agency	Timeline	Progress in the month of APRIL 2024	Progress in the month of MAY 2025	Progress in the month of JUNE 2025	% Works Completed	Details Of Remaining Work
1	Desilting of Kallayi river from Kaduppini to Kothi in Kozhikode Corporation	Irrigation department	31.03.2021	Desiltation of Kallai river under urban agglomeration scheme SHO on 12.09.2024 and Dredging work started ,Work Completed 10%			10%	
2	Provide fencing on the sides of the Bridge	Irrigation department	31.03.2021	SHO on 22.08.2024 for provididng chain linked fencing on Kothi bridge(Work in progress 30% completed) & SHO on 20.07.2024 for provididng chain linked fencing for Mooriyad road bridge(Work 100% completed)				
3	Dredging , Desilting & removal of weeds from E K canal (11.21 km)	Irrigation department	31.07.2019	Work entrusted to Kerala Waterways & Infrastructure Ltd (KWIL)				
4	Bio park in Kozhikode District	Irrigation department		Land for the proposed bio park is to be demarcated by the Revenue authorities after necessary boundary survey and subsequent bio cover works are to be done by the Social Forestry Department				
5	Flood prone mapping in Kozhikode District	Irrigation department		Action to be taken by the Hydrology Wing of Irrigation Department as this needs data collection, scientific analysis and modelling skills				

Kerala State Pollution Control Board

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

Suchitwa Mission

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

Action Plan by Ground Water Department

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

Action plan by irrigation Department

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of APRIL 2025	Progress in the month of MAY 2025	Progress in the month of JUNE 2025	% works completed	Details of works remaining
E	Dredging and desilting	Irrigation Department	3 years			Desiltation of Kallai river under urban agglomeration scheme SHO on 12.09.2024 and Dredging work started, Work Completed 10 %(Work halted due to off season)	10%	
E	E-flow (by micro water shed management)	Irrigation Department	3 years			Action to be taken by the hydrology wing of irrigation department as this needs data collection, scientific analysis and modeling skills. The matter has been communicated to the Hydrology wing Assistant Engineer at Kozhikode.		
E	Flood plain zone (protection and management)	Irrigation Department	3 years			Action to be taken by the hydrology wing of irrigation department. The matter has been communicated to the Hydrology wing.		
E	Greenery development (plant in trees on the banks)	Irrigation Department	3 years			Not reported		Not reported



KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

കോഴിക്കോട് റീജിയണൽ ഓഫീസ്
REGIONAL OFFICE, KOZHIKODE

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



LIFE
Initiative for
Pollution Control

CALICUT

Date: 07/07/2025

ANALYSIS REPORT OF RIVER WATER

Report No.	K R O S 5 6 0 9 / 1 to 5	Date:	0 3 0 7 2 0 2 5					
Date of Sample Collection	0 6 0 6 2 0 2 5	Date of receipt of the sample	0 9 0 6 2 0 2 5					
		Time	Hours: 1 0 : 0 0 AM					
Sampled by:	RL, KKD	Sample ID	KL1, KL2, KL3, KL5, & KL6					
Sampling Method	APHA1060B,a	Sample Lab Code	KROS :5609/1-5					
Sample container	PC 2.5 L	Ref.letter No.	PCB/KKD/DO/ Polluted River Stretch/2018 Vol. IV, Dated 09.06.2025					
Source:	KALLAI RIVER WATER	Received from:	EE,DO,KKD					
		Period of analysis:	09.06.2025-02.07.2025					
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	7.98	8.13	8.03	7.43	7.11
2	CONDUCTIVITY	µmhos/cm	APHA 2510B	694	379	391	1798	17130
3	BOD	mg/L	IS3025 (Part 44)	1.6	1	2	2.2	1
4	DISSOLVED OXYGEN	mg/L	APHA 4500-O,C	4.5	3.3	4.1	4.6	5.7
5	TOTAL COLIFORM,	CFU/100ml	APHA 9222B	21000	15000	28000	60000	56000
6	FECAL COLIFORM	CFU/100ml	APHA 9222D	10000	9000	7000	10000	31000
7	FECAL STREPTOCOCCUS	CFU/100ml	APHA 9230 C	140	210	180	80	240
8	TEMPERATURE	°C	APHA 2550B	30	30	30	31	31

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

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

[Signature]

Scientist in charge

NGT Progress Report for the Month of February 2025

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

UPPALA RIVER

1	Tying of net on both sides of the bridge - Rejuvenation work of Uppala river- providing fencing on both sides of Uppala NH bridge in Mangalpady Gramapanchayath of Kasaragod district					As the proposed NH upgradation works are going on and these works are to be carried out along with the bridges which are part of the NH, it would not be desirable to carry these works now. A letter has been sent from Irrigation division Kasargode to the Project Director, Project Implementation unit, NHAI Kannur for including fencing on both sides of bridges across uppala river which are under construction as part of NH66 widening
Tirur-Ponnanippuzha						
1	General - NGT-Rejuvenation of polluted rivers - Tirur - Ponnanippuzha - General civil work		Rs. 30.10 Lakhs AS No. AS/59D/22/25906 dtd: 29/03/2023 of CE, I&A, Tvm RS 30.10 Lakhs	Rs. 30.10 Lakhs TS No. IRR/IA/EST_TS/4907/20 22_5_1_1 dtd: 18/04/2023 of EE, Irrigation Division, Malappuram, 30.10 Lakhs	Work completed. Physical progress - 100%	Work completed bill paid(Rs 2984168/-Including GST)
2	RKI-Repair and Rehabilitation of Koottayi Regulator cum bridge across Tirur -Ponnani puzha in Mangalam Gramapanchayath in Malappuram District		Rs. 230 Lakhs, G.O(Rt)No. 122/2020/P &EA TVM, Dated 03/03/2020 Rs.230 Lakhs	Rs. 230 Lakhs, TS No. IDMPm/2020- 2021/2016/2656/IA dated.19/05/2020 of SE, INC, KKD, Rs.230 Lakhs	Work got stuck due to conditions at site	Cracks on girders and settlement of 4 piers towards right bank has seen on 18/11/2023. So the work can be continued only after addressing the present issues. So while preparing the estimate based on the study report from KERI Peechi, the solution for the new issues also has to be finalised. Meeting held on 29/11/2023 at the office of CE I&A in the presence of CE IDRDB concluded to conduct a detailed technical study by an expert team to find a solution for the existing issues. It is assigned Kerala State Highway Research Institute to study and recommend remedial solution for the existing issues. KERI Deputy Director conducted preliminary visit on 23/05/2024. A technical committee has been formed as per GO No. 488/2024/WRD dated 28/06/2024. Technical committee team inspected site on 8.8.2024. They suggested to conduct the hydrographic survey. Hydrographic survey team visited the site on 31.08.2024 to prepare the estimate. AS obtained for Rs.1,34,662/- for hydrographic survey. They completed the survey work. The Hydrographic chart, reduced level chart and cad files submitted by hydrographic survey wing are submitted to CE I & A, TVM Technical Committee meeting conducted on 10/12/24 and 10/01/25. Expert committee meeting report is awaiting for revise the estimate.

A	PERUMBA RIVER					
1	Rejuvenation of Perumba River- Providing fencing on both side of Perumba bridge in Payyannur Municipality.				DPR Submitted for FS	DPR amounting 27.60 lakhs submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023 and 19/08/2023
2	Rejuvenation of Perumba River- Maintaining E-Flow :Channelisation and Desilting of Vannathipuzha at Chandapurakadavu and Paravoor kadavu in Kadannappalli- Panappuzha Panchayath.				DPR Submitted for FS	Estimate prepared as per DSR 2018 and DPR submitted for FS for 15.30 lakhs The work, Rejuvenation of Perumba River - Maintaining E-Flow is coming under Room for River programme under the Executive Engineer (PA to SE) MI Circle Kozhikode who was in charge of Peruvamba river for Maintaining E- Flow.In peruvamba river desilting work were executed at various locations in Kadannappalli Panappuzha Panchayath and Eramam Kuttoor Panchayath.
3	*Rejuvenation of Perumba River- Desilting Perumba thodu in Payyannur Municipality, Payyannur LA in Kannur District				DPR Submitted for FS	The flow in the perumba thodu is contaminated with the waste from Payyannur market and its surroundings. If the existing SWECEB was reconstructed and its shutters were closed, the polluted water may get stagnated at the upstream side and serious environmental problems will be created. Hence at present construction of SWECEB is not environmentally feasible. If treatment facility is provided by local self government and only fresh water releases to thodu, the SWECEB can be reconstructed. Hence now only the desilting the thodu is included in the estimate and submitted for FS as per DSR 2018, for an amount of 5.46 lakhs vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023 & 19/08/2023.This work comes under the jurisdiction of MI Division Kannur.
B	RAMAPURAM RIVER					

1	Rejuvenation of Ramapuram River-Providing fencing on Ramapuram bridge across Ramapuram river in Madayi Panchayath.		AS/590/23/33743 dated 04/03/2024 19.00 lakhs		AS obtained	TS estimate under preparation.Sought permission from PWD to put up fencing.PWD KSTP/bridges has to accord sanction with the consent of CE (PWD) as per letter of PWD No.KSTP/Kannur/AE-2/2023/PP dated 01.08.2024 Executive Engineer,Irrigation Division,Thalassery submitted a request to Chief Engineer,PWD (KSTP) Thiruvananthapuram on 30.10.2024 in this regard and subsequent reminder requests on 6/12/24 & 4/1/25.Subsequently NOC received on 9/1/2025 and TS issued on 7.02.2025 vide order No IRR/IA/EST_TS/1805/2023_5_2_1. Tendering process has been completed.LOA issued on 4.03.2025.Agreement to be executed.
C	KUPPAM RIVER					
1	Providing fencing on Pazhayangadi Bridge across Kuppam River at Pazhayangadi in Madayi Grama Panchayath					DPR amounting 58 lakhs of "Rejuvenation of Kuppam River - Providing fencing on both sides of Kuppam bridge at Kuppam in Taliparamba Municipality and Pazhayangadi bridge at Pazhayangadi in Madayi Grama Panchayath" has been submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023. But, vide reference letter No D3-2416/2022 Vol I dated.14/12/2023 of Executive Engineer, Thalassery has reported that on scrutiny of estimate in detail, some corrections are found. Hence the estimate is corrected accordingly and estimate amount enhanced to 69 lakhs. In which Appendix 1 is Providing fencing on Pazhayangadi bridge for which estimated cost is 26 lakhs as per DSR 2018, which is resubmitted as per DSR 2018 including 18% GST for an amount of 34 lakhs. Executive Engineer has reported that during the site visit various utility pipes were seen laid on the handrails hence, fencing can't be laid over the handrails. So the proposed work can't be executed at the site.

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

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

D	KAVVAYI RIVER					
1	Desilting and rejuvenation of Narangathodu in Payyannur Municipality, Payyannur LA in Kannur District				DPR submitted for FS	*This work comes under the jurisdiction of MI Division Kannur. DPR submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023 & 19/08/2023 for an amount of Rs.7.82,000/-


Superintending Engineer

NGT Progress Report for the Month of May 2025

Irrigation North Circle, Kozhikode						
SlNo	Name of River and works	FS Amount and No.	AS Amount and No.	TS Amount and No	Present status	Remarks
1	2	3	4	5	6	7
KALLAI RIVER						
1	Desilting of Kallai river from Kaduppini to Kothi in Kozhikode Corporation.		Resolution No.90 dated 15/2/2021, 64 dated 30/12/2021 and 67 dated 2/7/2024 of Kozhikode Municipal corporation for Rs.1297.704lakhs	IDKkd/2021-2022/2018/4170/IA dated 7/3/2022 of CE I&A for Rs. 790 Lakhs	site hand over on 12/09/2024	Dredging work started.10% work completed.
2	Providing chain linked fencing on both sides of Ibrahim bridge across Ibrahim thode of Kallai river in Kozhikode Corporation.				DPR Submitted for FS	DPR amounting to 2.52 lakhs submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd.20-07-2023
3	Providing fencing on Mooriyad road bridge at Kozhikode Corporation		AS/59D/23/33744 dated 04/03/2024 of CE I&A Tvm 16.00 lakhs	IRR/IA/EST_TS/26/2023_5_1_1 dated 29/05/2024 13 lakhs	Work completed	(Work completed 100%)
4	GENERAL-Providing chain linked fencing at kallai River-Both sides of Kothi Bridge in Kozhikode Corporation.-General Civil Work		AS/59D/23/33130 dated 07/02/2024 28.3 lakhs	IRR/IA/EST_TS/8928/2022_5_1_1 dated 24/04/2024 28.3 lakhs	site hand over on 22/08/2024	Work completed 100%
KUTTIYADI RIVER						
1	Providing chain linked fencing on both sides of Gulikapuzha bridge across Kuttiyadi river in Velom Panchayath.		AS/59D/23/33132 dated 07/02/2024 24.6 lakhs	IRR/IA/EST_TS/8978/2022_5_1_1 dated 11/03/2024 24.2 lakhs	Work completed	Work completed on 8/11/2024

UPPALA RIVER						
1	Tying of net on both sides of the bridge - Rejuvenation work of Uppala river- providing fencing on both sides of Uppala NH bridge in Mangalpady Gramapanchayath of Kasaragod district					As the proposed NH upgradation works are going on and these works are to be carried out along with the bridges which are part of the NH, it would not be desirable to carry these works now. A letter has been sent from Irrigation division Kasargode to the Project Director,Project Implementation unit, NHAI Kannur for including fencing on both sides of bridges across uppala river which are under construction as part of NH66 widening
Tirur-Ponnanippuzha						
1	General - NGT-Rejuvenation of polluted rivers - Tirur - Ponnanippuzha - General civil work		Rs. 30.10 Lakhs AS No. AS/59D/22/25906 dtd: 29/03/2023 of CE, I&A, Tvm RS 30.10 Lakhs	Rs. 30.10 Lakhs TS No. IRR/IA/EST_TS/4907/20 22_5_1_1 dtd: 18/04/2023 of EE, Irrigation Division, Malappuram,30.10 Lakhs	Work completed. Physical progress - 100%	Work completed bill paid(Rs 2984168/-Including GST)
2	RKI-Repair and Rehabilitation of Koottayi Regulator cum bridge across Tirur -Ponnani puzha in Mangalam Gramapanchayath in Malappuram District		Rs. 230 Lakhs, G.O(Rt)No. 122/2020/P &EA TVM, Dated.03/03/2020 Rs.230 Lakhs.	Rs. 230 Lakhs, TS No. IDMPm/2020- 2021/2016/2656/IA dated.19/05/2020 of SE, INC, KKD, Rs.230 Lakhs.	Work got stuck due to conditions at site	Cracks on girders and settlement of 4 piers towards right bank has seen on 18/11/2023. So the work can be continued only after addressing the present issues. So while preparing the estimate based on the study report from KERI Peechi, the solution for the new issues also has to be finalised. Meeting held on 29/11/2023 at the office of CE I&A in the presence of CE IDRB concluded to conduct a detailed technical study by an expert team to find a solution for the existing issues. It is assigned Kerala State Highway Research Institute to study and recommend remedial solution for the existing issues. KERI Deputy Director conducted preliminary visit on 23/05/2024. A technical committee has been formed as per GO No. 488/2024/WRD dated 28/06/2024. Technical committee team inspected site on 8.8.2024. They suggested to conduct the hydrographic survey. Hydrographic survey team visited the site on 31.08.2024 to prepare the estimate. AS obtained for Rs.1,34,662/- for hydrographic survey. They completed the survey work. The Hydrographic chart, reduced level chart and cad files submitted by hydrographic survey wing are submitted to CE I & A, TVM. Technical Committee meeting conducted on 10/12/24 and 10/01/25. Based on the meeting minutes of the Technical Expert committee, DPR of 18.10 crores of the recast Estimate has been submitted.

A	PERUMBA RIVER					
1	Rejuvenation of Perumba River- Providing fencing on both side of Perumba bridge in Payyannur Municipality.				DPR Submitted for FS	DPR amounting 27.60 lakhs submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023 and 19/08/2023
2	Rejuvenation of Perumba River- Maintaining E-Flow Channelisation and Desilting of Vannathipuzha at Chandapurakadavu and Paravoor kadavu in Kadannappalli- Panappuzha Panchayath.				DPR Submitted for FS	Estimate prepared as per DSR 2018 and DPR submitted for FS for 15.30 lakhs The work, Rejuvenation of Perumba River - Maintaining E-Flow is coming under Room for River programme under the Executive Engineer (PA to SE) MI Circle Kozhikode who was in charge of Peruvamba river for Maintaining E- Flow.In peruvamba river desilting work were executed at various locations in Kadannappalli Panappuzha Panchayath and Eramam Kuttoor Panchayath.
3	*Rejuvenation of Perumba River- Desilting Perumba thodu in Payyannur Municipality, Payyannur LA in Kannur District				DPR Submitted for FS	The flow in the perumba thodu is contaminated with the waste from Payyannur market and its surroundings. If the existing SWECEB was reconstructed and its shutters were closed, the polluted water may get stagnated at the upstream side and serious environmental problems will be created. Hence at present construction of SWECEB is not environmentally feasible. If treatment facility is provided by local self government and only fresh water releases to thodu, the SWECEB can be reconstructed. Hence now only the desilting the thodu is included in the estimate and submitted for FS as per DSR 2018, for an amount of 5.46 lakhs vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023 & 19/08/2023.This work comes under the jurisdiction of MI Division Kannur.

B RAMAPURAM RIVER						
1	Rejuvenation of Ramapuram River-Providing fencing on Ramapuram bridge across Ramapuram river in Madayi Panchayath.		AS/59D/23/33743 dated 04/03/2024 19.00 lakhs		AS obtained	AS obtained as per Order No.AS/59D/23/33743 dtd 04.03.2024. NOC received from KSTP on 9/1/2025 and TS issued on 7.02.2025 vide order No.IRR/IA/EST_TS/1805/2023_5_2_1. Tendering process has been completed.LOA issued on 4.03.2025.Agreement executed. Site handed over on29/03/2025.
C KUPPAM RIVER						
1	Providing fencing on Pazhayangadi Bridge across Kuppam River at Pazhayangadi in Madayi Grama Panchayath					DPR amounting 58 lakhs of "Rejuvenation of Kuppam River - Providing fencing on both sides of Kuppam bridge at Kuppam in Taliparamba Municipality and Pazhayangadi bridge at Pazhayangadi in Madayi Grama Panchayath" has been submitted to CE, I&A, Tvm vide this office letter No. DS-NGT/1429/2019 Vol. III Dtd. 20/07/2023. But, vide reference letter No.D3-2416/2022 Vol I dated.14/12/2023 of Executive Engineer, Thalassery has reported that on scrutiny of estimate in detail, some corrections are found. Hence the estimate is corrected accordingly and estimate amount enhanced to 69 lakhs. In which Appendix 1 is Providing fencing on Pazhayangadi bridge for which estimated cost is 26 lakhs as per DSR 2018, which is resubmitted as per DSR 2018 including 18% GST for an amount of 34 lakhs. Executive Engineer has reported that during the site visit various utility pipes were seen laid on the handrails hence, fencing can't be laid over the handrails. So the proposed work can't be executed at the site.

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

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

D	KAVVAYI RIVER					
1	Desilting and rejuvenation of Narangathodu in Payyannur Municipality, Payyannur LA in Kannur District				DPR submitted for FS	*This work comes under the jurisdiction of MI Division Kannur. DPR submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd. 20/07/2023 & 19/08/2023 for an amount of Rs.7,82,000/-


Superintending Engineer

NGT Progress Report for the Month of June 2025

Irrigation North Circle, Kozhikode						
Sl.No	Name of River and works	FS Amount and No.	AS Amount and No.	TS Amount and No	Present status	Remarks
1	2	3	4	5	6	7
KALLAI RIVER						
1	Desilting of Kallai river from Kaduppini to Kothi in Kozhikode Corporation .		Resolution No.90 dated 15/2/2021, 64 dated 30/12/2021 and 67 dated 2/7/2024 of Kozhikode Municipal corporation for Rs.1297.704lakhs	IDKkd/2021-2022/2018/4170/IA dated 7/3/2022 of CE I&A for Rs. 790 Lakhs	site hand over on 12/09/2024	Dredging work completed10% .(Work halted due to Off season)
2	Providing chain linked fencing on both sides of Ibrahim bridge across Ibrahim thode of Kallai river in Kozhikode Corporation.				DPR Submitted for FS	DPR amounting to 2.52 lakhs submitted to CE, I&A, Tvm vide this office letter No. D5-NGT/1429/2019 Vol. III Dtd.20-07-2023
3	Providing fencing on Mooriyad road bridge at Kozhikode Corporation		AS/59D/23/33744 dated 04/03/2024 of CE I&A Tvm 16.00 lakhs	IRR/IA/EST_TS/26/2023_5_1_1 dated 29/05/2024 13 lakhs	Work completed	(Work completed 100%)
4	GENERAL-Providing chain linked fencing at kallai River-Both sides of Kothi Bridge in Kozhikode Corporation.-General Civil Work		AS/59D/23/33130 dated 07/02/2024 28.3 lakhs	IRR/IA/EST_TS/8928/2022_5_1_1 dated 24/04/2024 28.3 lakhs	site hand over on 22/08/2024	Work completed 100%
KUTTIYADI RIVER						
1	Providing chain linked fencing on both sides of Gulikapuzha bridge across Kuttiyadi river in Velom Panchayath.		AS/59D/23/33132 dated 07/02/2024 24.6 lakhs	IRR/IA/EST_TS/8978/2022_5_1_1 dated 11/03/2024 24.2 lakhs	Work completed	Work completed on 8/11/2024

UPPALA RIVER

1	Tying of net on both sides of the bridge - Rejuvenation work of Uppala river- providing fencing on both sides of Uppala NH bridge in Mangalpady Gramapanchayath of Kasaragod district					As the proposed NH upgradation works are going on and these works are to be carried out along with the bridges which are part of the NH, it would not be desirable to carry these works now. A letter has been sent from Irrigation division Kasargode to the Project Director, Project Implementation unit, NHAI Kannur for including fencing on both sides of bridges across uppala river which are under construction as part of NH66 widening
Tirur-Ponnanippuzha						
1	General - NGT-Rejuvenation of polluted rivers - Tirur - Ponnanippuzha - General civil work		Rs. 30.10 Lakhs AS No. AS/59D/22/25906 dtd: 29/03/2023 of CE, I&A, Tvm RS 30.10 Lakhs	Rs. 30.10 Lakhs TS No. IRR/IA/EST_TS/4907/20 22.5.1.1 dtd: 18/04/2023 of EE, Irrigation Division, Malappuram, 30.10 Lakhs	Work completed. Physical progress - 100%	Work completed bill paid (Rs 2984168/- Including GST)
2	RKI-Repair and Rehabilitation of Koottayi Regulator cum bridge across Tirur -Ponnani puzha in Mangalam Gramapanchayath in Malappuram District		Rs. 230 Lakhs, G.O(Rt)No. 122/2020/P & EA TVM, Dated.03/03/2020 Rs.230 Lakhs.	Rs. 230 Lakhs, TS No. IDMpm/2020- 2021/2016/2656/IA dated.19/05/2020 of SE, INC, KKD, Rs.230 Lakhs.	Work got stuck due to conditions at site	Cracks on girders and settlement of 4 piers towards right bank has seen on 18/11/2023. So the work can be continued only after addressing the present issues. So while preparing the estimate based on the study report from KERI Peechi, the solution for the new issues also has to be finalised. Meeting held on 29/11/2023 at the office of CE I&A in the presence of CE IDRB concluded to conduct a detailed technical study by an expert team to find a solution for the existing issues. It is assigned Kerala State Highway Research Institute to study and recommend remedial solution for the existing issues. KERI Deputy Director conducted preliminary visit on 23/05/2024. A technical committee has been formed as per GO No. 488/2024/WRD dated 28/06/2024. Technical committee team inspected site on 8.8.2024. They suggested to conduct the hydrographic survey. Hydrographic survey team visited the site on 31.08.2024 to prepare the estimate. AS obtained for Rs.1,34,662/- for hydrographic survey. They completed the survey work. The Hydrographic chart, reduced level chart and cad files submitted by hydrographic survey wing are submitted to CE I & A, TVM. Technical Committee meeting conducted on 10/12/24 and 10/01/25. Based on the meeting minutes of the Technical Expert committee, DPR of 18.10 crores of the recast Estimate has been submitted to CE I & A TVM on 24/05/2025.

B RAMAPURAM RIVER						
1	Rejuvenation of Ramapuram River-Providing fencing on Ramapuram bridge across Ramapuram river in Madayi Panchayath.		AS/59D/23/33743 dated 04/03/2024 19.00 lakhs		AS obtained	AS obtained as per Order No.AS/59D/23/33743 dtd 04.03.2024. NOC received from KSTP on 9/1/2025 and TS issued on 7.02.2025 vide order No.IRR/LA/EST_TS/1805/2023_5_2_1. Agreement executed. Site handed over on 29/03/2025. Letter sent to the contractor on 14.07.2025 for the completion of the work at the earliest.


 Superintending Engineer

National Mission for Clean Ganga

Format for Submission of Monthly Progress Report by States/UTs

(Hon'ble NGT in the matter of OA No.673/2018 dated 06.12.2019)

RIVER UPPALA, KASARGOD

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT- Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation		
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured		
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		
5	Chief Secretaries may set up appropriate monitoring mechanism at state level • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose		
	• Monitoring at State level must take place		
6	Progress report may be furnished by the State/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB		
6.1	Progress Report may be comprised of details along with completion timelines on: (I) Identification of polluting sources including drains		

	contributing to river pollution and action as per NGT order on in-situ treatment. (II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (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 (iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; (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. (vii) Ground water regulation (viii) Adopting good irrigation practices		

	(ix) Protection and management of food plain Zones (FPZ) (x) Rain water harvesting (xi) Maintaining minimum Environmental flow of river (xii) Plantation on both sides of the river (xiii) Setting up biodiversity parks on flood plains by removing encroachment		

ACTION PLAN FOR RIVER UPPALA, KASARAGOD DISTRICT, KERALA
MONTHLY PROGRESS REPORT FOR THE MONTH OF JUNE 2025
RIVER UPPALA, KASARGOD

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

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

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

Sd/-

Environmental Engineer

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

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

Sd/-
Assistant Scientist

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

Sd/
ASSISTANT SCIENTIST

☎0471-2303844

e.mail: kspcbdotvpm@gmail.comWebsite: kspcb.kerala.gov.in**KERALA STATE POLLUTION CONTROL BOARD**

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

DISTRICT OFFICE, THIRUVANANTHAPURAM
ജില്ലാ ഓഫീസ്, തിരുവനന്തപുരം

T. C. 12/96 (4,5), PLAMOODU JN., PATTOM P.O, THIRUVANANTHAPURAM - 695 004

ടി.സി. 12/96 (4,5), പ്ലാമൂടു് ജംഗ്ഷൻ, പട്ടം പി.ഒ, തിരുവനന്തപുരം - 695 004

**ANALYSIS REPORT**

No: 202796

Date: 05/07/2025

Source		Kinfra, Pallithura, Thiruvananthapuram.		
Sample Received From		NAMP Operator	Date of sample collection	19/06/2025
Date of Receipt		19/06/2025	Sample ID	95 (ETP Outlet)
Sl. No.	Parameter	Unit	Value	Permissible Limit
1	pH	-	7.4	6.5 - 8.5
2	Total Suspended Solids	mg/L	20	100
3	BOD (3 days @ 27°C)	mg/L	1.1	30
4	COD	mg/L	92	250
5	Oil & Grease	mg/L	2.1	10
6	Fecal Coliform	cfu/100ml	Nil	--

Remarks: BDL-Below Detection Level

Verified by

Scientist-in-Charge of Analysis

ASSISTANT ENVIRONMENTAL SCIENTIST

KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

DISTRICT OFFICE, THIRUVANANTHAPURAM
ജില്ലാ ഓഫീസ്, തിരുവനന്തപുരം

T. C. 12/96 (4,5), PLAMOODU JN., PATTOM P.O, THIRUVANANTHAPURAM – 695 004

ടി.സി. 12/96 (4,5), പ്ലാമൂട് ജംഗ്ഷൻ, പട്ടം പി.ഒ, തിരുവനന്തപുരം - 695 004

**ANALYSIS REPORT**

No: 202794

05/07/2025

Source		Medical College Hospital, Thiruvananthapuram.		
Sample Received From		NAMP Operator	Date of sample collection	19/06/2025
Date of Receipt		19/06/2025	Sample ID	44 (STP Outlet)
Sl. No.	Parameter	Unit	Value	Permissible Limit
1	pH	-	3.5	6.5 – 8.5
2	Total Suspended Solids	mg/L	35.1	10
3	BOD (3 days @ 27°C)	mg/L	1.9	3
4	Oil & Grease	mg/L	BDL	1
5	Bio-assay Test	-	100% fish died within 1 hour	90% survival of fish after 96 hours in 100% effluent prior to disinfection.
6	COD	mg/L	88	-
7	Total Coliform	cfu/100ml	100	-
8	Fecal Coliform	cfu/100ml	Nil	-

Remarks: BDL-Below Detection Level

Verified by

Scientist-in-Charge of Analysis

ASSISTANT ENVIRONMENTAL SCIENTIST

☎0471-2303844

e.mail: kspcbdotvpm@gmail.comWebsite: kspcb.kerala.gov.in**KERALA STATE POLLUTION CONTROL BOARD**

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DISTRICT OFFICE, THIRUVANANTHAPURAM
ജില്ലാ ഓഫീസ്, തിരുവനന്തപുരം

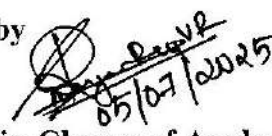
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ടി.സി. 12/96 (4,5), പ്ലാമൂട് ജംഗ്ഷൻ, പട്ടം പി.ഒ, തിരുവനന്തപുരം - 695 004

**ANALYSIS REPORT**

No: 202795

05/07/2025

Source		STP Muttathara, Thiruvananthapuram		
Sample Received From		NAMP Operator	Date of sample collection	19/06/2025
Date of Receipt		19/06/2025	Sample ID	20
Sl. No.	Parameter	Unit	Value	Permissible Limit
1	pH	-	7.3	6.5 – 9.0
2	Total Suspended Solids	mg/L	6.3	< 50
3	BOD (3 days @ 27°C)	mg/L	8.3	20
4	COD	mg/L	64	-
5	Oil & Grease	mg/L	0.8	-
6	Fecal Coliform	cfu/100ml	2400	<1000
Remarks: BDL-Below Detection Level				
Verified by 				
Scientist-in-Charge of Analysis		 ASSISTANT ENVIRONMENTAL SCIENTIST		

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PCB/PBR/LAB/1/2013

Date: 29.03.2025

ANALYSIS REPORT

Source : CETP RUBBER PARK, IRAPURAM

Sample Point : ACF OUTLET

Date of sampling : 13.03.2025

Date of receipt : 18.03.2025

Collected by : NAMP II

Analysed by : JSAI & JSAIL

Sample ID : PCB/PVR/3610/2024

Sl. No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		7.07	APHA, 4500 H ⁺ B 23 rd Edition 2017.	6.0-9.0
2	BOD	mg/L	9.5	APHA, 5210 B, 23 rd Edition 2017.	30
3	COD	mg/L	88	APHA, 5220 B, 23 rd Edition 2017	250
4	Oil and Grease	mg/L	BDL	APHA, 5520 B, 23 rd Edition 2017	10
5	Total Suspended Solids	mg/L	BDL	APHA, 2540-D, 23 rd Edition 2017	100
6	TDS	mg/L	606	APHA 2540-C, 23 rd Edition 2017	2100
7	Ammoniacal Nitrogen	mg/L	15.48	APHA 4500-NH ₃ -F, 23 rd Edition 2017	50
8	Sulphides	mg/L	9.96	APHA, 4500-S ²⁻ -F, 23 rd Edition 2017	2
9	Fluorides	mg/L	<1	APHA, 4500-F ⁻ C, 23 rd Edition 2017	2
10	Chlorides	mg/L	49.9	APHA, 4500-Cl ⁻ B, 23 rd Edition 2017	1000
11	Sulphates	mg/L	25.87	APHA, 4500-SO ₄ , 23 rd Edition 2017	1000
12	Phenolic Compounds	mg/L	BDL	APHA, 5530 C, 23 rd Edition 2017	1
13	Phosphate	mg/L	2.1	APHA-4500 P-E 23 rd Edition 2017.	5
14	Nitrate	mg/L	BDL	APHA 4500-NO ₃ -E 23 rd Edition 2017	10
15	Total Residual Chlorine	mg/L	BDL	APHA, 4500-Cl-B, 23 rd Edition 2017	1

BDL - Below Detection Limit

Dist. Office (Ernakulam-II)

29 MAR 2025

Perumbavoor - 683542

ASHNA SHAJI
ASSISTANT SCIENTIST

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PCB/PBR/LAB/1/2013

Date: 29.03.2025

ANALYSIS REPORT

Source : COMMON ETP OF KINFRA SMALL INDUSTRIES PARK NELLAD

Sample Point : FINAL OUT

Date of sampling : 13.03.2025

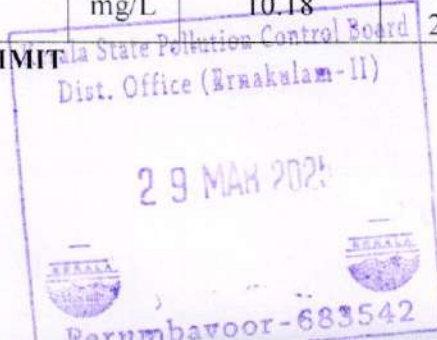
Date of receipt : 18.03.2025

Collected by : NAMP-II

Sample ID : PCB/PVR/3609/2024

Sl. No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		7.93	APHA, 4500 H ⁺ B 23 rd Edition 2017.	6.0-9.0
2	BOD	mg/L	1.06	APHA, 5210 B, 23 rd Edition 2017	30
3	COD	mg/L	20	APHA 5220 B, 23 rd Edition 2017	250
4	TOTAL SUSPENDED SOLIDS	mg/L	BDL	APHA 2540 D, 23 rd Edition 2017	100
5	OIL AND GREASE	mg/L	BDL	APHA, 5520 B, 23 rd Edition 2017	10
6	FLUORIDES	mg/L	<1	APHA, 4500-F ⁻ C, 23 rd Edition 2017	2
7	CHLORIDES	mg/L	49.9	APHA, 4500-Cl ⁻ B, 23 rd Edition 2017	1000
8	SULPHATES	mg/L	54.86	APHA, 4500-SO ₄ , 23 rd Edition 2017	1000
9	SULPHIDES	mg/L	BDL	APHA-4500-S ²⁻ D 23 rd Edition 2017	2
10	PHOSPHATES	mg/L	0.57	APHA, 4500-P, 23 rd Edition 2017	5
11	AMMONIACAL NITROGEN	mg/L	BDL	APHA, 4500-NH ₃ -F, 23 rd Edition 2017	50
12	PHENOLIC COMPOUNDS	mg/L	BDL	APHA, 5530 C, 23 rd Edition 2017	1
13	NITRATES	mg/L	10.18	APHA 4500-NO ₃ -E 23 rd Edition 2017	10

BDL- BELOW DETECTION LIMIT



ASHNA SHAJI
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PCB/PBR/LAB/1/2013

Date: 06.05.2025

ANALYSIS REPORT

Source : CETP RUBBER PARK, IRAPURAM

Sample Point : ACF OUTLET

Date of sampling : 03.04.2025

Date of receipt : 03.04.2025

Collected by : AS

Analysed by : JSAI & JSAII

Sample ID : PCB/PVR/05/2025-26

Sl. No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		7.97	APHA, 4500 H ⁺ B 23 rd Edition 2017.	6.0-9.0
2	BOD	mg/L	1.17	APHA, 5210 B, 23 rd Edition 2017.	30
3	COD	mg/L	24	APHA, 5220 B, 23 rd Edition 2017	250
4	Oil and Grease	mg/L	BDL	APHA, 5520 B, 23 rd Edition 2017	10
5	Total Suspended Solids	mg/L	BDL	APHA, 2540-D, 23 rd Edition 2017	100
6	TDS	mg/L	BDL	APHA 2540-C, 23 rd Edition 2017	2100
7	Ammoniacal Nitrogen	mg/L	0.021	APHA 4500-NH ₃ -F, 23 rd Edition 2017	50
8	Sulphides	mg/L	11.36	APHA, 4500-S ²⁻ -F, 23 rd Edition 2017	2
9	Fluorides	mg/L	<1	APHA, 4500-F ⁻ -C, 23 rd Edition 2017	2
10	Chlorides	mg/L	74.98	APHA, 4500-Cl ⁻ B, 23 rd Edition 2017	1000
11	Sulphates	mg/L	15.91	APHA, 4500-SO ₄ , 23 rd Edition 2017	1000
12	Phenolic Compounds	mg/L	BDL	APHA, 5530 C, 23 rd Edition 2017	1
13	Phosphate	mg/L	0.31	APHA-4500 P-E 23 rd Edition 2017.	5
14	Nitrate	mg/L	10.52	APHA 4500-NO ₃ -E 23 rd Edition 2017	10
15	Total Residual Chlorine	mg/L	BDL	APHA, 4500-Cl-B, 23 rd Edition 2017	1

BDL - Below Detection Limit

ASHNA SHAJI
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PCB/PBR/LAB/1/2013

Date: 06.05.2025

ANALYSIS REPORT

Source : COMMON ETP OF KINFRA SMALL INDUSTRIES PARK NELLAD

Sample Point : FINAL OUT

Date of sampling : 03.04.2025

Date of receipt : 03.04.2025

Collected by : AS

Sample ID : PCB/PVR/04/2025-26

Sl. No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		7.0	APHA, 4500 H ⁺ B 23 rd Edition 2017.	6.0-9.0
2	BOD	mg/L	27.33	APHA, 5210 B, 23 rd Edition 2017	30
3	COD	mg/L	144	APHA 5220 B, 23 rd Edition 2017	250
4	TOTAL SUSPENDED SOLIDS	mg/L	110	APHA 2540 D, 23 rd Edition 2017	100
5	OIL AND GREASE	mg/L	BDL	APHA, 5520 B, 23 rd Edition 2017	10
6	FLUORIDES	mg/L	<1	APHA, 4500-F ⁻ C, 23 rd Edition 2017	2
7	CHLORIDES	mg/L	49.98	APHA, 4500-Cl ⁻ B, 23 rd Edition 2017	1000
8	SULPHATES	mg/L	18.14	APHA, 4500-SO ₄ , 23 rd Edition 2017	1000
9	SULPHIDES	mg/L	13.38	APHA-4500-S ²⁻ D 23 rd Edition 2017	2
10	PHOSPHATES	mg/L	1.21	APHA, 4500-P, 23 rd Edition 2017	5
11	AMMONIACAL NITROGEN	mg/L	3.49	APHA, 4500-NH ₃ -F, 23 rd Edition 2017	50
12	PHENOLIC COMPOUNDS	mg/L	BDL	APHA, 5530 C, 23 rd Edition 2017	1
13	NITRATES	mg/L	0.86	APHA 4500-NO ₃ -E 23 rd Edition 2017	10

BDL- BELOW DETECTION LIMIT

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PCB/PBR/LAB/1/2013

Date: 06.05.2025

ANALYSIS REPORT

Source : SEPTAGE TREATMENT PLANT, BRAHMAPURAM
Sample Point : FILTERED EFFLUENT TANK
Date of sampling : 14.03.2025
Date of receipt : 18.03.2025
Collected by : NAMP-I
Analysed by : JSAI & JSA II
Sample ID : PCB/PVR/3624/2024

Sl. No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		5.58	APHA, 4500 H ⁺ B 23 rd Edition 2017.	5.5-9.0
2	BOD	mg/L	14.43	APHA, 5210 B, 23 rd Edition 2017	30
3	COD	mg/L	152	APHA, 5220 B, 23 rd Edition 2017	250
4	OIL AND GREASE	mg/L	BDL	APHA, 5520 B, 23 rd Edition 2017	10
5	TOTAL SUSPENDED SOLIDS	mg/L	168	APHA, 2540-D, 23 rd Edition 2017	100
6	PHOSPHATES	mg/L	0.25	APHA-4500 P-E 23 rd Edition 2017	5
7	NITRATES	mg/L	3.90	APHA 4500-NO ₃ -E, 23 rd Edition 2017	10
8	SULPHATES	mg/L	30.93	APHA, 4500-SO ₄ , 23 rd Edition 2017	1000
9	SULPHIDES	mg/L	10.25	APHA-4500-S ²⁻ D 23 rd Edition 2017	2
10	AMMONIACAL NITROGEN	mg/L	BDL	APHA, 4500-NH ₃ -F, 23 rd Edition 2017	50
11	PHENOLIC COMPOUNDS	mg/L	BDL	APHA, 5530 C, 23 rd Edition 2017	1
12	FAECAL COLIFORM	cfu/100mL	1	APHA 9222 D, 23 rd Edition 2017	<1000
13	FAECAL STREPTOCOCCI	cfu/100mL	<1	APHA 9230 A, 23 rd Edition 2017	-

BDL - BELOW DETECTION LIMIT

ASHNA SHAJI
ASSISTANT SCIENTIST

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PCB/PBR/LAB/1/2013

Date: 14.05.2025

ANALYSIS REPORT

Source : SEPTAGE TREATMENT PLANT, BRAHMAPURAM
Sample Point : FILTERED EFFLUENT TANK
Date of sampling : 15.04.2025
Date of receipt : 15.04.2025
Collected by : NAMP-I
Analysed by : JSAI & JSA II
Sample ID : PCB/PVR/14/2025-26

Sl. No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		7.26	APHA, 4500 H ⁺ B 23 rd Edition 2017.	5.5-9.0
2	BOD	mg/L	0.87	APHA, 5210 B, 23 rd Edition 2017	30
3	COD	mg/L	24	APHA, 5220 B, 23 rd Edition 2017	250
4	OIL AND GREASE	mg/L	BDL	APHA, 5520 B, 23 rd Edition 2017	10
5	TOTAL SUSPENDED SOLIDS	mg/L	54	APHA, 2540-D, 23 rd Edition 2017	100
6	PHOSPHATES	mg/L	0.06	APHA-4500 P-E 23 rd Edition 2017	5
7	NITRATES	mg/L	3.09	APHA 4500-NO ₃ -E, 23 rd Edition 2017	10
8	SULPHATES	mg/L	12.49	APHA, 4500-SO ₄ , 23 rd Edition 2017	1000
9	SULPHIDES	mg/L	8.34	APHA-4500-S ²⁻ D 23 rd Edition 2017	2
10	AMMONIACAL NITROGEN	mg/L	0.20	APHA, 4500-NH ₃ -F, 23 rd Edition 2017	50
11	PHENOLIC COMPOUNDS	mg/L	1.23	APHA, 5530 C, 23 rd Edition 2017	1
12	FAECAL COLIFORM	cfu/100mL	7	APHA 9222 D, 23 rd Edition 2017	<1000
13	FAECAL STREPTOCOCCI	cfu/100mL	60	APHA 9230 A, 23 rd Edition 2017	-

BDL – BELOW DETECTION LIMIT

ASHNA SHAJI
ASSISTANT SCIENTIST

KERALA STATE POLLUTION CONTROL BOARD

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PCB/PBR/LAB/1/2013

Date: 10.06.2025

ANALYSIS REPORT

Source : CETP RUBBER PARK, IRAPURAM

Sample Point : ACF OUTLET

Date of sampling : 05.05.2025

Date of receipt : 05.05.2025

Collected by : JSA II

Analysed by : JSAI & JSII

Sample ID : PCB/PVR/26/2025-26

Sl. No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		8.11	APHA, 4500 H ⁺ B 23 rd Edition 2017.	6.0-9.0
2	BOD	mg/L		APHA, 5210 B, 23 rd Edition 2017.	30
3	COD	mg/L	40	APHA, 5220 B, 23 rd Edition 2017	250
4	Oil and Grease	mg/L	BDL	APHA, 5520 B, 23 rd Edition 2017	10
5	Total Suspended Solids	mg/L	BDL	APHA, 2540-D, 23 rd Edition 2017	100
6	TDS	mg/L	1.31	APHA 2540-C, 23 rd Edition 2017	2100
7	Ammoniacal Nitrogen	mg/L	0.21	APHA 4500-NH ₃ -F, 23 rd Edition 2017	50
8	Sulphides	mg/L	BDL	APHA, 4500-S ²⁻ -F, 23 rd Edition 2017	2
9	Fluorides	mg/L	<1	APHA, 4500-F ⁻ -C, 23 rd Edition 2017	2
10	Chlorides	mg/L	29.9	APHA, 4500-Cl ⁻ B, 23 rd Edition 2017	1000
11	Sulphates	mg/L	28.25	APHA, 4500-SO ₄ , 23 rd Edition 2017	1000
12	Phenolic Compounds	mg/L	BDL	APHA, 5530 C, 23 rd Edition 2017	1
13	Phosphate	mg/L	0.53	APHA-4500 P-E 23 rd Edition 2017.	5
14	Nitrate	mg/L	7.8	APHA 4500-NO ₃ -E 23 rd Edition 2017	10
15	Total Residual Chlorine	mg/L	BDL	APHA, 4500-Cl-B, 23 rd Edition 2017	1

BDL - Below Detection Limit

ASHNA SHAJI
ASSISTANT SCIENTIST

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PCB/PBR/LAB/1/2013

Date: 05.06.2025

ANALYSIS REPORT

Source : COMMON ETP OF KINFRA SMALL INDUSTRIES PARK NELLAD

Sample Point : FINAL OUT

Date of sampling : 05.05.2025

Date of receipt : 05.05.2025

Collected by : JSA II

Sample ID : PCB/PVR/25/2025-26

Sl. No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		7.09	APHA, 4500 H ⁺ B 23 rd Edition 2017.	6.0-9.0
2	BOD	mg/L	18.37	APHA, 5210 B, 23 rd Edition 2017	30
3	COD	mg/L	248	APHA 5220 B, 23 rd Edition 2017	250
4	TOTAL SUSPENDED SOLIDS	mg/L	182.4	APHA 2540 D, 23 rd Edition 2017	100
5	OIL AND GREASE	mg/L	BDL	APHA, 5520 B, 23 rd Edition 2017	10
6	FLUORIDES	mg/L	<1	APHA, 4500-F ⁻ C, 23 rd Edition 2017	2
7	CHLORIDES	mg/L	149.9	APHA, 4500-Cl ⁻ B, 23 rd Edition 2017	1000
8	SULPHATES	mg/L	19.78	APHA, 4500-SO ₄ , 23 rd Edition 2017	1000
9	SULPHIDES	mg/L	3.63	APHA-4500-S ²⁻ D 23 rd Edition 2017	2
10	PHOSPHATES	mg/L	1.89	APHA, 4500-P, 23 rd Edition 2017	5
11	AMMONIACAL NITROGEN	mg/L	0.964	APHA, 4500-NH ₃ -F, 23 rd Edition 2017	50
12	PHENOLIC COMPOUNDS	mg/L	BDL	APHA, 5530 C, 23 rd Edition 2017	1
13	NITRATES	mg/L	1.10	APHA 4500-NO ₃ -E 23 rd Edition 2017	10

BDL- BELOW DETECTION LIMIT

ASHNA SHAJI
ASSISTANT SCIENTIST



Telephone No: 0487 - 2374939

E-mail: kspcbtsr@gmail.com

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

മജസ്റ്റിക് സ്ക്വയർ, മൂന്നാം നില, പരവട്ടാനി, ഒല്ലൂക്കര പി.ഒ., തൃശ്ശൂർ-680655

KERALA STATE POLLUTION CONTROL BOARD

Majestic Square, 3rd Floor, Paravattani, Ollukkara P.O., Thrissur-680655

ANALYSIS REPORT (WATER/EFFLUENT/SOLID WASTE)		No: TAS 1442 Date: 29.05.2025	
Source	KWA, Chakkamkandam		
Date of Sample Collection	09.05.2025	EE, THRISSUR	
Ref. No.	PCB/TSR/IC/487/07 Dated 15.05.2025	Period of analysis	15.05.2025-29.05.2025
Date of Receipt	15.05.2025		
Sample Collected by	AE3		
Methods		Standard methods for the examination of Water and Waste Water, APHA AWWA WEF (24 th Edition 2023)	
Scientist – in –charge of analysis		DHANYA O G	

SI No	Parameter	Unit	Value	Acceptable Limit	Method
			CHK(STP Outlet)		
1	pH	---	7.61	6.5- 8.5	APHA 4500-H+,B
2	Biochemical Oxygen Demand	mg/l	11.2	30	APHA 5210, B
3	Chemical Oxygen Demand	,,	20	250	APHA-5220, B
4	Suspended solids	,,	0.4	100	APHA 2540, D
5	Oil&Grease	,,	0.11	10	APHA 5520, B
6	Faecal Coliforms	CFU/100ml	520	230	APHA 9222 D



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കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

മജസ്റ്റിക് സ്ക്വയർ, മൂന്നാം നില, പരവട്ടാനി, ഒല്ലൂക്കര പി.ഒ., തൃശ്ശൂർ-680655

KERALA STATE POLLUTION CONTROL BOARD

Majestic Square, 3rd Floor, Paravattani, Ollukkara P.O., Thrissur-680655

ANALYSIS REPORT (WATER/EFFLUENT/SOLID WASTE)		No: TAS 1460 Date: 27.06.2025	
Source	KWA, Chakkamkandam		
Date of Sample Collection	12.06.2025	EE, THRISSUR	
Ref. No.	PCB/TSR/IC/487/07 Dated 13.06.2025	Period of analysis	13.06.2025-27.06.2025
Date of Receipt	13.06.2025		
Sample Collected by	AE3		
Methods	Standard methods for the examination of Water and Waste Water, APHA AWWA WEF (24 th Edition 2023)		
Scientist – in –charge of analysis	DHANYA O G		

SI No	Parameter	Unit	Value	Acceptable Limit	Method
			CHK(STP Outlet)		
1	pH	---	8.5	6.5- 8.5	APHA 4500-H+,B
2	Biochemical Oxygen Demand	mg/l	6	30	APHA 5210, B
3	Chemical Oxygen Demand	,,	36	250	APHA-5220, B
4	Suspended solids	,,	18	100	APHA 2540, D
5	Oil&Grease	,,	0.51	10	APHA 5520, B
6	Faecal Coliforms	CFU/100ml	1440	230	APHA 9222 D



KERALA STATE POLLUTION CONTROL BOARD

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കേരളീയർക്ക് റീജ്യണൽ ഓഫീസ്
REGIONAL OFFICE, KOZHIKODE



Phone: 2300744 (CEE);

kspcb.kerala.gov.in

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



ANALYSIS REPORT OF WASTEWATER

Report No.	K R O S 5 6 3 6	Date:	2 7 0 6 2 0 2 5		
Date of Sample Collection	1 3 0 6 2 0 2 5	DATE OF RECEIPT OF THE SAMPLE	1 6 0 6 2 0 2 5		
Time	Hours: NOT GIVEN	Time	Hours: 1 2 : 0 0 PM		
Sampled by:	AE-4, DO, KKD	Sample ID	PCB 61		
Sampling Method	NOT GIVEN	Sample Lab Code	KROS 5636		
Sample container	PC-2.5L	Ref.letter No.	PCB/DO/KKD/NARAYANA NAGAR Dated:16-06-2025		
Source:	NARAYANA NAGAR, VATAKARA	Received from:	EE/DO/KKD		
		Period of analysis:	16.06.2025-26.06.2025		
Specific sampling location:	NARAYANA NAGAR STP(100KLD), VATAKARA	No. of samples	1		
		Analysed by:	PVH/NSS/SNS/MT/AKR		
Sample preservation:	ICE	Method:Standard Methods for the examination of Water and Wastewater, APHA AWWA WEF (22 nd Ed.)			
sl no	Parameters	unit	LDL	Method No.	Sample ID
					PCB-61
1	pH	-		APHA 4500-H ⁺ .B	9
2	SUSPENDED SOLIDS	mg/L	4	APHA 2540D	BDL
3	BOD	mg/L	0.5	IS3025 (Part 44)	0.67
4	CHLORIDE	mg/L	2	APHA 4500 Cl ⁻ .B	30
5	COD	mg/L	5	APHA 5220 B	48

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

Scientist in charge

**KERALA STATE POLLUTION CONTROL BOARD**

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

കോഴിക്കോട് റീജിയണൽ ഓഫീസ്
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3rd FLOOR, ZAMORIN'S SQUARE, LINK ROAD, KOZHIKODE - 673 002**ANALYSIS REPORT OF WASTEWATER**

Report No.	K R O S 5 6 3 5 / 1 - 3	Date:	0 1 0 7 2 0 2 5
Date of Sample Collection	1 3 0 6 2 0 2 5	Date of receipt of the sample	1 6 0 6 2 0 2 5
Time	Hours: NOT GIVEN	Time	Hours: 0 2 : PM
Sampled by:	AE-2,DO,KKD	Sample ID	PCB 06,PCB 80, PCB 101
Sampling Method	NOT GIVEN	Sample Lab Code	KROS 5635/1-3
Sample container	PC-2.5L	Ref.letter No.	PCB/KKD/DO/MEDICAL COLLEGE Dated:16.06.2025
Source:	GOVT. MEDICAL COLLEGE KOZHIKODE	Received from:	EE/DO/KKD
		Period of analysis:	16.06.2025-01.07.2025
Specific sampling location:	GOVT. MEDICAL COLLEGE, KOZHIKODE	No. of samples:	3
		Analysed by:	NSS/HPV/SNS/MT/AKR
Sample preservation:	ICE	Method:Standard Methods for the examination of Water and Wastewater, APHA AWWA WEF (22 nd Ed.)	

Sl no	Parameters	Unit	LDL	Method No.	Sample ID		
					PCB 06	PCB 80	PCB 101
1	pH	-	2	APHA 4500-H ⁺ B	9.5	9	9
2	TOTAL SUSPENDED SOLIDS (Dried at 103-105°C)	mg/L	4	APHA 2540D	18.9	34.5	9.2
3	BOD	mg/L	0.5	IS3025 (Part 44)	46.6	20.67	18.27
4	COD	mg/L	5	APHA 5220B	64	120	48
5	OIL & GREASE	mg/L	4.7	APHA 5520 B	11.76	5.52	BDL
6	TOTAL RESIDUAL CHLORINE	mg/L	0.2	APHA 4500 Cl ⁻ B	NIL	NIL	NIL
7	AMMONIACAL- N	mg/L	0.02	APHA 4500 NH ₃ F	106.446	57.927	38.85
8	NITRATE- N	mg/L	0.09	APHA 4500 NO ₃ ⁻ B	0.614	0.379	0.179

PCB 06 : 2 MLD(NEW PLANT)
PCB 80 : 1 MLD (NEW PLANT)
PCB 101 : 2 MLD (OLD PLANT)

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

Scientist in charge



KERALA STATE POLLUTION CONTROL BOARD
DISTRICT OFFICE
RUBCO HOUSE, 6TH FLOOR, SOUTH BAZAR,
KANNUR-670002
Telephone: 0497-2711621

ANALYSIS REPORT

Report No:	KNR-1713	Date:	09-07-2025		
Date of sample	20-06-2025	Date of receipt	20-06-2025		
Sample received	Environmental Engineer	Sample ID:	EFF-797		
Source:	Effluent	Ref. Letter.No	PCB/KNR/DO/2003/2024		
Sample container:	PC 2.5L	Sampled by:	PA		
Sample type:	Effluent	Period of Analysis	20/06/2025 to 26/06/2025		
Specific sampling location:	Treated water from STP outlet of Old Age Home, Azhikode, Kannur	Analysed by:	JSA		
Sample	As per APHA/IS:3025	No. of Samples	1		
Scientist -in-Charge of Analysis	Asst.Scientist	Method: Standard methods for the examination of Water and Waste Water, APPA AWWA WEF (22nd			
SLNo.	Parameters	Unit	Sample ID		
			EFF-797		
1	pH		7.59		
2	BOD (3 days at 27 ⁰ C)	mg/L	20		
3	COD	mg/L	24		
4	Oil and Grease	mg/L	1.8		
5	TSS	mg/L	27		

BDL- Below Detection Limit

ND- Not Detectable

Sample Details:

EFF-797: Treated water from STP outlet of Old Age Home, Azhikode, Kannur

This test results is restricted for the water sample(s) collected by Project Assistant dt on 20/06/2025 only

Scientist in charge

Dr. VIJAYTHA VIJAYAKUMAR
ASSISTANT SCIENTIST



KERALA STATE POLLUTION CONTROL BOARD
DISTRICT OFFICE
RUBCO HOUSE, 6TH FLOOR, SOUTH BAZAR,
KANNUR-670002
Telephone: 0497-2711621

ANALYSIS REPORT

Report No:	KNR-1714	Date:	09-07-2025		
Date of sample	20-06-2025	Date of receipt	20-06-2025		
Sample received from:	Environmental Engineer	Sample ID:	EFF-798		
Source:	Effluent	Ref. Letter No.	PCB/KNR/DO/2003/2024		
Sample container:	PC 2.5L	Sampled by:	PA		
Sample type:	Effluent	Period of Analysis	20/06/2025 to 01/07/2025		
Specific sampling location:	Treated water from CSTP at Padannappalam, Kannur	Analysed by:	JSA		
Sample	As per APHA/IS:3025	No. of Samples	1		
Scientist -in-Charge of Analysis	Asst.Scientist	Method: Standard methods for the examination of Water and Waste Water, APHA AWWA WEF (22nd			
Sl.No.	Parameters	Unit	Sample ID		
			EFF-798		
1	pH		7.66		
2	BOD (3 days at 27 ⁰ C)	mg/L	10.7		
3	COD	mg/L	36		
4	Oil and Grease	mg/L	5.92		
5	TSS	mg/L	39		

BDL- Below Detection Limit

ND- Not Detectable

Sample Details:

EFF-798: Treated water from CSTP at Padannappalam, Kannur

This test results is restricted for the water sample(s) collected by Project Assistant dt on 20/06/2025 only


Scientist in charge

Dr. VIJAYTHA VIJAYAKUMAR
ASSISTANT SCIENTIST

IMPACT Kerala Ltd – STP/FSTP/UGSTP projects as on 16.07.2025

SI No	Projects	Status
	FSTP Projects	
1	250 KLD Septage Treatment Plant at Cherthala Municipality (RKI Project) (Contract amt. 6.56 Cr)	• Project inaugurated on 28.03.2025. • Trial run completed. • O&M agreement signed. • Commissioning report to be given. • PCB Consent to operate – pending • KSEB connection for solar panel – pending • Delay in bill payment.
2	50 KLD Varkala Septage Treatment Plant (RKI Project) (Contract amt. 2.64 Cr)	• Work ongoing at site. • Legacy waste removal from the site has been completed. Soil reinvestigated. Initially approved vetted foundation drawings by Anna University revised. • Contractor submitted design drawings on 07.02.2025, placed before Technical Committee & the committee approved the same. • Office building superstructure work completed; plastering completed. Receiving chamber wall concrete completed. Lab building foundation work completed. • Process plant foundation completed. Steel structure installation in progress. • Enormous delay in bill payment. Expected Date of Completion: August 2025
3	Erumeli FSTP	• Meeting conducted by Special Secretary on 09.06.2025, decided to entrust the project to IKL. • DPR shared by SM, Council resolution and soil report received on 18.06. 2025. Technical sanction given by SM. • IKL placed it before the Technical Committee on 04.07.2025 and decided to proceed with tender formalities. • MoU signed on 16.07.2025. To be tendered.
4	North Paravur FSTP	• Agreement executed with M/s Urban Grey water solutions for DPR preparation 19-Nov-2024. Agency visited the Municipality. Identified land is near Periyar river.

		In the review meeting held by Principal Director on 05.06.2025, LB informed that the biomining site may be used for the proposed FSTP. Municipality has to submit council resolution regarding site change and to proceed with soil test after completing biomining at the earliest. Consultant will initiate survey at this location.
5	Chittur Thathamangalam (3.5 Cr approx.)	- Agreement executed with M/s Urban Grey water solutions for DPR preparation on 19-Nov-2024. Agency visited the Municipality. - Public protest at site during soil test. Collector visited the site & directed to provide police protection. Soil test conducted on 29.04.2025. - Contour survey completed, DPR submitted by the consultant. - Technical presentation done before IKL technical committee on 04.07.2025. - DPR to be modified as per technical committee comments.
6	Shornur FSTP with grey water management (4 Cr approx.)	- Agreement executed with M/s Urban Grey water solutions for DPR preparation on 19-Nov-2024. Agency visited the Municipality. - Soil test done. - Contour survey completed, DPR design work in progress. - As per decision of meeting b/w consultant, LB and SM, Consultant submitted process flow to LB for Suchitwa Mission approval & LB to submit council decision for 50 KLD with GWM. DPR submitted by consultant. - Technical presentation done before IKL technical committee on 04.07.2025. - DPR to be modified as per technical committee comments.
7	FSTP at Erumapetty GP, Trissur district	RFQ invited for PFR from empanelled agencies. 8 quotes received, under evaluation. Placed before the technical committee held on 04.07.2025. Selection notice to be issued.
8	Muvattupuzha Municipality's 50 KLD FSTP Project	- DPR submitted to RKI for AS on 13.11.2024 in advance. - Vide Lr.No.PP1/100/2024-LSGD dated 27.01.2025 from LSG(PP) Dept. informed that RKI has expressed its inability to take

		up the project. • Informed municipality to forward Council resolution to proceed with KIIFB funding. • Land conversion required.
	STP Projects	
1	590 KLD Mayyanad Sewage Treatment Plant (RKI Project) AS received on 04.03.2022 for an amount of Rs. 11.55 Cr (Contract amt. 9.55 Cr)	• Work ongoing at site • Physical progress – 57% • Thanni, Valiyavila & Dhawalakuzhy - Above ground tanks wall concrete completed. • Thanni - Office building concrete work completed, plastering work completed. Raw sewage tank concrete work in completed. • Valiyavila – Office building concrete work & plastering completed. Raw sewage tank concrete work in progress. • Dhawalakuzhy – Raw sewage tank excavation work in progress. • Thanni, Valiyavila & Dhawalakuzhy - Network line and manhole installation in progress. • Enormous delay in bill payment. Expected Date of Completion: September 2025
2	1.5 MLD Sewage Treatment Plant with Sewerage Network at Ottappalam Municipality (KIIFB Project) Revised AS received on 19.01.2023 for an amount of Rs. 20.93 Cr (Contract amt. 17.74 Cr)	• STP work in progress. Pile completed. The concreting of the grade beam and base slab of the Intermediate Storage Tank, Sludge Holding Tank and Treated Water Tank completed, and the first lift concreting (3 meter) of the RCC wall completed. • Pile cap & grade beam reinforcement for SBR-1 tank completed. Epoxy coating work in progress. Steel work of grade beam & pile cap completed. • The reinforcement work for the SBR-2 tank grade beam & pile cap in progress. Up to raft beam bottom concrete completed. • Total station survey completed for finalizing sewer network design. Design being finalized. • KRFB NoC – received. As decided in KIIFB MLA review meeting, contractor to submit network plan up to Taluk hospital to KRFB. • Railway NoC in process – Minister level meeting conducted at Palakkad Collectorate on 20.06.2025. Railway sought 1-month time. Joint inspection done by Railways, IKL

		and LB. • PWD NoC – Contractor submitted revised drawings as directed by CE, PWD Roads to PWD section Office, Ottappalam – In process. • Project Director met PWD Roads & Bridges EE for expediting NoC. Expected Date of Completion: December 2025
3	Vadakara Municipality's 500 KLD STP (Under appraisal)	• Narayana nagaram – Land was 'Nanja'. Permission received vide G.O(MS)No.88/2024/AGRI dtd 13.08.2024 from Agriculture (NCA)Department. • Consultant submitted modified DPR with TAR reply, submitted to KIIFB.
	UG STP Projects	
1	Parassinikkadavu in Anthur Municipality, Kannur district	• Soil report received from LB on 02.06.25. • DPR under preparation by CDD India, will be submitted by 25.07.25
2	Thavanur Central Prison & Correctional home in Malappuram district	• Soil report received from Prison department on 02.06.25. DPR under preparation by CDD India, will be submitted within 19.07.2025. • Clarification required regarding funding & IMPACT centage.
3	Govt. Ayurveda Hospital, Piravom Municipality, Ernakulam Dist.	• Agreement executed with M/s OXIRA Environmental Solutions Pvt Ltd for DPR preparation on 09-Apr-2025. Agency visited the Municipality on 29-Apr-2025, DPR under preparation. • The Local body to carry out soil test and to submit report.
4	3 projects in Alappuzha district i. Civil Station in Alappuzha Municipality ii. Revenue Tower, Taluk Office in Haripad Municipality iii. Taluk Hospital in Haripad Municipality	• RFQ invited for PFR from empanelled agencies with 09.06.25 as last date. 8 quotes received, under evaluation. Placed before the technical committee. Selection notice to be issued. • In the review meeting held by Principal Director on 05.06.2025, directed LB to proceed with soil test.
5	2 projects in Palakkad district i. PHC in Akathethara Grama Panchayat ii. KAP Camp in Puthupariyaram Grama	• RFQ invited for PFR from empanelled agencies with 09.06.25 as last date. 8 quotes received, under evaluation. Placed before the technical committee. Selection notice to be issued.

	Panchayath	In the review meeting held by Principal Director on 05.06.2025, directed LBs to proceed with soil test.

National Mission for Clean Ganga
Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018
(In compliance to NGT order dated 24.09.2020)

Status of Wastewater Treatment Plants Under AMRUT in Kerala (as on 30.06.2025)

Details of Completed ETPs / STP in the State

No.	City / Town	STP Location	Status	Installed Capacity	Utilization Capacity	Process
1	Thiruvananthapuram	Medical College (AMRUT-1.0)	Completed & operational	5 MLD	3 MLD	MBBR
2	Kochi	Elamkulam (AMRUT-1.0)	Completed & operational	5 MLD	4 MLD	MBBR
3	Kannur	Padannapalam (AMRUT-1.0)	Completed & operational	1 MLD	0.8 MLD	RMBR
4	Alappuzha	General Hospital (AMRUT-1.0)	Completed & operational	0.24 MLD	0.16 MLD	Electro-coagulation
5	Kozhikode	Medical College (AMRUT-1.0)	Completed & operational	2 MLD	1.3 MLD	Electro-coagulation
6	Kozhikode	Medical College (AMRUT-1.0)	Completed & operational	1 MLD	0.5 MLD	Electro-coagulation
7	Thrissur	General Hospital (AMRUT-1.0)	Completed & operational	0.36 MLD	0.2 MLD	MBBR

Details of Under Construction ETPs / STPs / ESTPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I & D or House Sewer Connections	Incremental Progress	Completion Timeline
1	STP at Kureepuzha, Kollam Corporation (AMRUT-1.0)	12	93%	12471 house sewer connections are envisaged (AMRUT-2.0).	Admin building construction, supply of MBBR media and supply & installation of rotary drum drier are the balance works. As the commissioning of the STP is delayed due to the non-completion of sewer network, the contractor requested to reduce the scope of the balance works and to modify the O&M arrangement of the STP. The recommendation of the KWA in this regard is to be placed in the next SLTC/ SHPSC for a taking a suitable decision.	31.12.2025
2	Decentralized Sewerage System (STP at Ambedkar Colony) – Div-16, Edakochi South, Kochi Corporation (AMRUT-1.0)	1.1	62%	1500 sewer connections are envisaged.	Work is hindered due to rain.	31.12.2025
3	FSTP at Chelora, Kannur Corporation (AMRUT-1.0)	0.1	86%	NA	Work is hindered due to rain.	31.08.2025
4 5	Mobile Septage Treatment Units – 2 nos., Alappuzha Municipality (AMRUT-1.0)	0.02 (0.01x2 nos.)	Physically completed	NA	Both units delivered. Trial run and effluent testing are to be completed by the contractor.	31.07.2025

6	FSTP at Yakkara, Palakkad Municipality (AMRUT-1.0)	0.1	75%	NA	Work is hindered due to rain.	30.09.2025
7	STP for RAY Flats, Fort Kochi, Kochi Corporation (AMRUT-2.0)	0.105	6%	199 flats will be connected	Work is hindered due to rain.	30.11.2025

Details of Proposed ETPs/ STPs in the State

No.	Location	Capacity of the plant in MLD	Status of Project (up to 31.05.2025)	Incremental Progress (up to 30.06.2025)	Likely Date of Completion
1	FSTP at Ramavarmapuram, Thrissur Corporation (AMRUT-1.0)	0.1	Not started: Agreement dated 04/01/24 was executed. The bridge work (for access to the site) was started on 18/06/24. The bridge work was stopped on 04/07/24 due to public protest. FSTP works could not be started due to public protest. The Joint Director, Thrissur, held a meeting with the public at the site on 28/10/24 but the issue could not be solved. In the meeting held by the District Collector on 30/01/25 involving the representatives of all political parties it was decided to shift the project to the land given to IMA in Ramavarmapuram.	A meeting involving ministers in the Thrissur District is to be convened to finalize the land.	31.03.2026
2	STP at Rajaji Nagar, Thiruvananthapuram Corporation (AMRUT-1.0)	0.5	Not Started: <i>STP:</i> LoA issued to Eco Paradigm on 29/04/25. The Agreement was executed on 27/05/25. <i>Sewer Network:</i> The preliminary report was submitted on 23/04/25 by the DPR agency (Urban Grey Water Solutions) and the draft report was submitted on 05/05/25. A joint site inspection was conducted on 17/05/25 by the officials of the ULB, Eco Paradigm & Urban Grey Water Solutions for finalizing the STP locations and 2 locations were finalized.	<i>STP:</i> Eight families to be shifted from one of the proposed STP locations for starting the works. Quotations for the construction of temporary sheds for shifting the families were called for by the ULB with 25/06/25 as the last date of submission but no offers were received. Hence, quotations to be called for again by the ULB. <i>Sewer Network:</i> The Urban Grey Water Solutions submitted the modified report based on the finalized locations on 13/06/25 and the estimate on 20/06/25. TS is to be issued.	31.03.2026
3	STP with septage co-treatment at Elamkulam, Kochi Corporation (AMRUT-2.0)	5	Tendered: The 5 th SHPSC held on 02/03/23 approved the issuance of AS and G.O dated 25/03/23 was issued. KWA split the work into 5 sub works and issued TS. Later the KWA decided to combine the proposals under AMRUT-2.0 & KMRL. In the meeting held by the Hon'ble Minister of LSGs on 24/07/24 the KWA was directed to go ahead with the proposal under	<i>STP:</i> LoA issued to L1 bidder. The L1 bidder has given a case against the security deposit demanded by the KWA and the decision of the court is awaited. The	31.03.2027

No.	Location	Capacity of the plant in MLD	Status of Project (up to 31.05.2025)	Incremental Progress (up to 30.06.2025)	Likely Date of Completion
			AMRUT-2.0 instead of the combined proposal involving KMRL. TS was issued by KWA for the STP package and tender was floated by KWA for the STP package on 02/12/24 with 01/01/25 as the due date. Three bids received. L1 is 8% above. LoA to be issued. The revised TS of the network package is to be issued by KWA.	agreement execution is delayed due to this. <i>Sewer Network:</i> Revised TS of the sewer network package is to be issued by the PPD & WASCON Wing of KWA.	
4	STP with septage co-treatment at Sarovaram (AMRUT-2.0)	27	Tendered: The 7 th SHPSC held on 14/12/23 approved the issuance of AS and G.O dated 08/01/24 was issued. KWA issued combined TS for the STP and the sewer network packages. Tendering was kept on hold by the KWA as it was found in the CRZ mapping done by IRS, Chennai, that a portion of the proposed site for the STP (nearly 20 cents out of 2.6 Acres) falls under the CRZ-1 category. KWA had sought clarity from ULB regarding the possibility of getting CRZ clearance as the reduction in the area available will lead to reduction in the STP capacity and reworking of the estimate. The ULB has directed KWA to go ahead with the project without reducing the STP capacity under the assumption that the permission will be obtained from the KCZMA as per the CRZ rules (as per the latest rules, public utilities are allowed in CRZ-1). In the meeting held by the Hon'ble Mayor on 06/01/25, the KWA was directed to go ahead with the project without reducing the STP capacity under the assumption that the permission will be obtained from the KCZMA as per the prevailing CRZ rules (as per the latest rules, public utilities are allowed in CRZ-1). KWA has tendered the work with 14/02/25 as the opening date. The due date was extended up to 25/02/25 and again up to 06/03/25 as per the request of the prospective bidders. Two bids received but both did not qualify. KWA retendered the work on 03/04/25 with 02/05/25 as the tender opening date. Six bids received and are under scrutiny in KWA.	Prequalification process is in progress in KWA. Financial bid to be opened.	31.03.2027
5	FSTP at Brahmapuram, Kochi Corporation (AMRUT-2.0)	1	TS to be issued: The ULB engaged the IRTC to execute the work in the DBOT mode. The SHPSC held on 07 & 20/02/25 approved the issuance of AS and G.O dated 22/03/25 was issued. The design is being vetted by the CUSAT.	The vetted design has been obtained from CUSAT. TS estimate to be placed in the technical committee for approval.	31.03.2027
6	STP with septage co-treatment at Maithanapalli, Kannur Corporation (AMRUT-2.0)	5	TS to be issued: The SHPSC held on 07 & 20/02/25 approved the issuance of AS and G.O dated 22/03/25 was issued. TS to be issued. The Council held on 28/04/25 decided that the project will be implemented by the ULB in the DBOT mode	The request of the ULB to execute the project in the DBOT mode on their own instead of KWA is to be placed in the next	31.03.2027

No.	Location	Capacity of the plant in MLD	Status of Project (up to 31.05.2025)	Incremental Progress (up to 30.06.2025)	Likely Date of Completion
			instead of KWA. As per the request of the ULB, the matter will be placed in the next SLTC/ SHPSC for approval.	SLTC/ SHPSC for approval.	
7	STP with septage co-treatment at Alissery, Alappuzha Municipality (AMRUT-2.0)	5	TS to be issued: The SHPSC held on 07 & 20/02/25 approved the issuance of AS and G.O dated 22/03/25 was issued. TS to be issued by the PPD & WASCON wing of KWA. Survey in progress for the finalization of the network design for the preparation of the TS estimate.	Survey completed and the TS estimate is being prepared by KWA.	31.03.2027
8	Sewerage System for Zone-A (STP at West Hill Industrial Estate), Kozhikode Corporation (AMRUT-2.0)	15	AS to be issued: Due to public protest and the ongoing court cases (there is a stay by the Munsiff Court regarding the Avikkalthodu STP work) the ULB combined the Kothi & Avikkalthodu sewerage projects proposed a 13 MLD STP at a new location (West Hill Industrial Estate). The MoHUA's approval was received on 01/10/24. An EoI for executing the work in DBOT mode was floated by the ULB on 30/10/24 with 20/11/24 as the last date of bid submission. The due date of EoI was extended till 10/12/24 as per the request of the prospective bidders. Two offers received. The Council held on 21/12/24 approved the formation of a technical committee for scrutiny of bids. The SIDCO has objected the construction of the STP in the West Hill Industrial Estate. In this regard, the ULB has submitted a request to the Govt. (letter dated 20/12/24) for permission to construct the STP at the location and the decision is awaited. Although the SIDCO objected the construction of the STP in the West Hill Industrial Estate, the ULB is going ahead with the project and has issued LoA on 18/02/25 to KCCL & AIPPL - JV. The agreement was executed on 21/05/25. The DPR submitted by the contractor is to be placed in the next SLTC/ SHPSC for approval of AS.	The DPR submitted by the contractor is to be placed in the next SLTC/ SHPSC for approval of AS.	31.03.2027
9	STP for Municipal Buildings, Palakkad Municipality (AMRUT-2.0)	0.030	AS to be issued: The MoHUA's approval was received on 01/10/24. The Council held on 17/12/24 gave approval to call for Expression of Interests (EoI) for executing the project in the DBOT mode. The EoI was called for by the ULB on 01/03/25 and with 12/03/25 as the due date. Three bids received and are under scrutiny. LoA issued to L1 (Auxira, Kozhikode) on 29/04/25. The agreement is to be executed. The DPR is to be submitted by the contractor to the ULB for placing in the SLTC/ SHPSC for approval of AS.	The L1 bidder has not yet executed the agreement. The ULB has informed the L1 bidder that if the agreement is not executed within the 1 st week of Jul-2025, the ULB will issue LoA to the L2.	31.12.2026
10	Augmentation of existing 3 MLD STP at Chakkamkandam to 5	2	AS to be issued: The MoHUA's approval was received on 01/10/24. In the meeting held on 04/03/25, the	The modified DPR is to be submitted by the PPD &	31.03.2027

No.	Location	Capacity of the plant in MLD	Status of Project (up to 31.05.2025)	Incremental Progress (up to 30.06.2025)	Likely Date of Completion
	MLD, Guruvayur Municipality (AMRUT-2.0)		KWA agreed to modify the DPR (inclusive of septage cotreatment) as suggested by the ULB. The modified DPR is to be submitted by KWA for placing in the SLTC/ SHPSC for approval of AS.	WASCON wing of KWA for placing in the SLTC/ SHPSC for approval of AS.	
11	Decentralized Wastewater Treatment for Bhajanamadom settlement in Kidangamparambu Ward, Alappuzha Municipality (AMRUT-2.0)	0.012	AS to be issued: The MoHUA's approval was received on 01/10/24. The DPR to be submitted by the ULB for placing in the SLTC/ SHPSC for approval of AS. The ULB will engage a DPR preparation agency only after the proposed land for the STP is relinquished by the Bhajanamadom Church. The church authorities are not willing to relinquish the land but they are willing to give NoC to the ULB for implementing the project. The matter is to be resolved.	The ULB has informed the Bhajanamadom Church authorities that the project will have to be cancelled if the land for the STP is not relinquished to the ULB.	31.12.2026
12	Decentralized Sewerage Scheme (STP at Kokkala), Thrissur Corporation (AMRUT-2.0)	2.5	AS to be issued: The proposed land falls under paddy land category. Hence the clearance of the Agriculture Dept. is required. Request for clearance was submitted by the ULB to the SLMC vide letter dated 02/08/23. The Agriculture Dept. rejected the ULB's request to convert the proposed land for the STP on 25/10/24 (via G.O No. 917/ 2024/ AGRI dated 29/09/24). The MoHUA's approval for the project was received on 01/10/24. The DPR was placed in the SLTC held on 07/01/25 and the SHPSC held on 07 & 20/02/25. The ULB was directed to submit the technical details of the STP to the District Collector for furnishing a report to the Govt. for taking an appropriate decision on allowing the ULB to construct the STP at the proposed location. The decision on according AS for the project will be taken by the SLTC/ SHPSC based on the decision taken by the Govt. The ULB submitted the technical details of the proposed STP to the District Collector on 22/02/25. As directed by the District Collector, a joint inspection was held on 10/03/25 involving officials of KLDC, Irrigation Dept., Agriculture Dept. & ULB, and a joint report was submitted to the District Collector on 17/03/25. Based on the joint report, the District Collector recommended (letter dated 25/03/25) to the Principal Secretary & APC, Agriculture Dept. that sanction can be given to convert the proposed land for the STP. The decision in this regard is awaited from Agriculture Dept.	The decision of the Agriculture Dept. is awaited regarding the conversion of the proposed land for the STP.	31.03.2027
13	STP with septage co-treatment at Kottappuram, Thrissur Corporation (AMRUT-2.0)	5	AS to be issued: The MoHUA's approval was received on 01/10/24. The DPR submitted by KWA was placed in the SLTC held on 07/01/25 and the SHPSC held on 07 & 20/02/25. The ULB was	Due to public protest the ULB wants to combine this project with the Kokkala STP project and	31.03.2027

No.	Location	Capacity of the plant in MLD	Status of Project (up to 31.05.2025)	Incremental Progress (up to 30.06.2025)	Likely Date of Completion
			directed to resolve the public protest or identify alternative land or submit a replacement sewage/septage management project by 31/03/25; otherwise, the amount set aside for the project will be reallocated for the projects in the buffer list (WS projects) of AMRUT-2.0. Due to public protest the ULB wants to combine this project with the Kokkala STP project with the common STP at Kokkala. Approval is to be obtained from the Agriculture Dept. to convert the proposed land for the Kokkala STP.	construct a common STP at Kokkala. Approval is to be obtained from the Agriculture Dept. to convert the proposed land for the Kokkala STP.	
14	ETP at KSRTC Depot, Thampanoor, Thiruvananthapuram (AMRUT-2.0)	0.02	TS to be issued: The SHPSC held on 07 & 20/02/25 approved the issuance of AS and the G.O dated 22/03/25 was issued. TS to be issued. The KSRTC requested (letter dated 21/04/25) Suchitwa Mission to issue TS. The Suchitwa Mission requested (letter dated 27/05/25) KSRTC to provide the DPR to them for issuing TS.	The KSRTC submitted the DPR to Suchitwa Mission on 21.06.2025. The estimate is to be submitted.	31.12.2026

No.	Location	Implementing Agency	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - January 2025	Incremental progress - February 2025	Incremental progress - March 2025	Incremental progress - April 2025	Incremental progress - May 2025	Incremental progress - Jun 2025	Likely Date of Completion of DPR Preparation/ Tendering
TRIVANDRUM DISTRICT											
1	STP at Rajaji Nagar, Thiruvananthapuram (AMRUT-1.0)	Thiruvananthapuram Corporation	0.5	Work Awarded				STP: LoA issued to Eco Paradigm on 29/04/25. Agreement to be signed. Sewer Network: LoA issued to the DPR agency (Urban Grey Water Solutions) on 14/03/25. Agreement signed on 24/03/25. Preliminary report submitted on 23/04/25. Final report is awaited.	STP: The Agreement was executed on 27/05/25. Starting of work is delayed due to rain. Sewer Network: The draft report was submitted on 05/05/25. A joint site inspection was conducted on 17/05/25 by the officials of the ULB, Eco Paradigm & Urban Grey Water Solutions for finalizing the STP locations and 2 locations were finalized. The modified report based on the finalized locations to be submitted by the DPR agency.	STP: Eight families to be shifted from one of the proposed STP locations for starting the works. Quotations for the construction of temporary sheds for shifting the families were called for by the ULB with 25/06/25 as the last date of submission but no offers were received. Hence, quotations to be called for again by the ULB. Sewer Network: The Urban Grey Water Solutions submitted the modified report based on the finalized locations on 13/06/25 and the estimate on 20/06/25. TS is to be issued.	STP: 31.12.2025 Sewer Network: 31.03.2026
2	ETP at KSRTC Depot, Thampanoor, Thiruvananthapuram (AMRUT-2.0)	KSRTC	0.02	AS issued					The SHPSC held on 07 & 20/02/25 approved the issuance of AS and G.O dated 22/03/25 was issued. The KSRTC requested (letter dated 21/04/25) Suchitwa Mission to issue TS. The Suchitwa Mission requested (letter dated 27/05/25) KSRTC to decide the mode of execution (accredited agency/ open tender) and provide the DPR to Suchitwa Mission for scrutiny for issuing technical sanction.	The KSRTC submitted the DPR to Suchitwa Mission on 21.06.2025. The estimate is to be submitted.	Expected to be completed by 31.12.2026
KOLLAM DISTRICT											
3	CHC Sooranadu, Sasthancotta Block Panchayath, Kollam	Suchitwa mission	0.028						project spillover for further process		
4	Waste water Treatment (90 KLD) System for coastal housing and Tsunmai resettlement facility at karikuzhi, mayyanadGrama Panchayath , Kollam		0.09								
PATHANAMTHITTA DISTRICT											
5	Taluk Hospital Thiruvalla , Thiruvalla Municipality, Pathanamthitta	Suchitwa mission	0.225						tender processing going on		
6	Taluk Hospital Thiruvalla ,Thiruvalla Municipality, Pathanamthitta		0.09								
ALAPPUZHA DISTRICT											
7	STP with Septage Cotreatment Capability at Alissery, Alappuzha Municipality (AMRUT-2.0)	Kerala Water Authority	5	AS issued	The SLTC held on 07.01.2025 recommended the issuance of AS to the SHPSC. To be placed in the SHPSC scheduled on 07.02.2025 for approval of AS.	The SHPSC held on 07 & 20.02.2025 accorded sanction for issuing AS. Minutes of the meeting to be approved and the Govt. Order to be issued.	The minutes of the SHPSC meeting has been approved and the Govt. Order dated 22/03/25 for administrative sanction has been issued.	AS dated 22/03/25 was issued. TS to be issued by KWA.	TS to be issued by the PPD & WASCON wing of KWA. Survey in progress for the finalization of the network design for the preparation of the TS estimate.		Expected to be completed by 31.03.2027.
8	Sewerage system for Haripad municipality(Kottathara Zone) with STP of capacity 4.2 MLD		3.8	DPR Approved							

No.	Location	Implementing Agency	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - January 2025	Incremental progress - February 2025	Incremental progress - March 2025	Incremental progress - April 2025	Incremental progress - May 2025	Incremental progress - Jun 2025	Likely Date of Completion of DPR Preparation/ Tendering
9	STP at Bhajanamadom Colony, Alappuzha Municipality (AMRUT-2.0)	Alappuzha Municipality	0.012	DPR Stage	The DPR to be submitted by the ULB for placing in the SLTC/ SHPSC for approval of AS. The ULB will engage a DPR preparation agency only after the proposed land for the STP is relinquished by the Bhajanamadom Church. The church authorities are not willing to relinquish the land but they are willing to give a NoC to the ULB for implementing the project. Way forward to be decided by the ULB.	The DPR to be submitted by the ULB for placing in the SLTC/ SHPSC for approval of AS. The ULB will engage a DPR preparation agency only after the proposed land for the STP is relinquished by the Bhajanamadom Church. The church authorities are not willing to relinquish the land but they are willing to give NoC to the ULB for implementing the project. Way forward to be decided by the ULB.	A meeting involving the Hon'ble MLA and the District Collector is expected to be held soon to resolve the land issue.	A meeting involving the Hon'ble MLA and the District Collector is expected to be held soon to resolve the land issue.	A meeting involving the Hon'ble MLA and the District Collector is to be convened by the ULB for resolving the issue related to the proposed land.	The ULB has informed the Bhajanamadom Church authorities that the project will have to be cancelled if the land for the STP is not relinquished to the ULB.	Expected to be completed by 31.12.2026.
KOTTAYAM DISTRICT											
10	Taluk Hospital Pampady, Pampady Block panchayat, Kottayam		0.085						PCB Approval Pending		-
11	ETP at Kodimatha, Kottayam Municipality		0.030		TS not issued. Awaiting council decision for fund assurance.	Technical Sanction issued on 07.02.2025.			Manual TS Obtained		
	11 KLD effluent treatment plant at Kuravilangad Fish market, Kuravilangad Grama Panchayat, Kottayam		0.011						Project Dropped		
13	FSTP at Vellor GP			DPR Stage	Government support required for the land transfer AS to be revised considering the O&M fund. A meeting to be conducted with all the Local Body representatives including in the cluster.						
14	FSTP at Manganam			DPR Stage							
IDUKKI DISTRICT											
15	STP for Idukki district hospital and district Ayurveda hospital, Thodupuzha municipality, Idukki	Suchitwa mission	0.205		Jilla panchayath took necessary actions for submitting the corrected DPR from agency	Conducted meeting with the agency regarding the submission of DPR.			correction not yet submitted by agency		
16	STP at private bus station, Kothayikkunnu, Thodupuzha municipality Idukki	Suchitwa mission	0.03		Re-tendered, but no agency quoted. Planning to retender.	Retendered again - , opening scheduled on 3rd march			will Retender soon		
ERNAKULAM DISTRICT											
17	4 STPs are coming up under the KMRL's Integrated Water transport System project at		17.5+24+1 6.5+19 =77			AS received for					
18	Elamkulam(17.5 MLD),										
	Vennala(24MLD)										
	Muttar(16.5 MLD)										
	Perandur(19 MLD)										
19	STP with Septage Cotreatment Capability at Elamkulam, Kochi Corporation (AMRUT-2.0)	Kerala Water Authority	5	Tendered	Tender for the STP package was floated by KWA on 02.12.2024 with 01.01.2025 as the due date. Three bids received and are under technical scrutiny. TS of the sewer network package is being revised by KWA.	Pre-qualification of bidders to be finalized by KWA. TS of the sewer network package to be issued by KWA.	L1 is 8% above. LoA to be issued. TS of the sewer network package is being revised by KWA and is expected to be completed by 30/04/25.	Negotiation is in progress with the bidder. LoA to be issued. TS of the sewer network package is being revised by KWA and is expected to be completed by 10/05/25.	LoA to be issued to the L1 bidder of the STP. Revised TS of the sewer network package is to be issued by the PPD & WASCON Wing of KWA.	STP: LoA issued to L1 bidder. The L1 bidder has given a case against the security deposit demanded by the KWA and the decision of the court is awaited. The agreement execution is delayed due to this. Sewer Network: Revised TS of the sewer network package is to be issued by the PPD & WASCON Wing of KWA.	Expected to be completed by 31.03.2027.

No.	Location	Implementing Agency	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - January 2025	Incremental progress - February 2025	Incremental progress - March 2025	Incremental progress - April 2025	Incremental progress - May 2025	Incremental progress - Jun 2025	Likely Date of Completion of DPR Preparation/ Tendering
20	ETP for slaughter house, Marakkadavu, Ernakulam	Suchitwa mission	0.030		DPR under correction by the agency. Consent from the KSPCB is not yet to be received due to the less availability of land.	DPR under correction by the agency. Consent from the KSPCB is not yet to be received due to the less availability of land.			Consent pending		
21	CHC Kadayiruppu, Vadavucode Block Panchayat, Ernakulam	Suchitwa mission	0.025		LB preparing estimate in Price software. DPR under correction by the agency.	LB preparing estimate in Price software. DPR under correction by the agency.			DPR under correction by the agency		
22	FSTP at Brahmapuram, Kochi Corporation (AMRUT-2.0)	Kochi Corporation	1	AS issued	The IRTC has submitted the draft DPR to the ULB on 24.01.2025 but it requires certain corrections. The corrected DPR to be submitted by the IRTC to the ULB for placing in the SLTC/ SHPSC for approval of AS.	The DPR was placed in the SHPSC held on 07 & 20.02.2025 and the committee accorded sanction for issuing AS. Minutes of the meeting to be approved and the Govt. Order to be issued.	The minutes of the SHPSC meeting has been approved and the Govt. Order dated 22/03/25 for administrative sanction has been issued.	AS dated 22/03/25 was issued. TS to be issued. The design is being vetted by the CUSAT.	The design is being vetted by the CUSAT. TS estimate will be finalized by the ULB based on the vetted design.	The vetted design has been obtained from CUSAT. TS estimate to be placed in the technical committee for approval.	Expected to be completed by 31.03.2027
23	Muvattupuzha Municipality's 50KLD FSTP Project	IMPACT Kerala Ltd.			DPR submitted to RKI for AS on 13.11.2024 in advance. Vide Lr.No.PP1/100/2024-LSGD dated 27.01.2025 from LSG(PP) Dept.informed that RKI has expressed its inability to take up the project.	Informed municipality to forward Council resolution to proceed with KIIFB funding.	Chairman informed that LB may drop the project as the proposed plant is in wetland.	Chairman informed that LB may drop the project as the proposed plant is in wetland.	Chairman informed that LB may drop the project as the proposed plant is in wetland.		
24	North Paravur FSTP	IMPACT Kerala Ltd.			Agreement executed with M/s Urban Grey water solutions for DPR preparations 19-Nov-2024. Agency visited the municipality. Two sites identified; LB has not finalize the site.	PCB rejected the site identified by the Municipality as it was near the river. LB has 2.5 acres of dumping yard, machines arrived for biomining the area which may take 3 months to complete. The steering committee will study the possibilities to implement the STP/FSTP plant there, LB has to consider public protest too. Later the proposal will be included as agenda for council approval. LB has to decide and inform IKL.	PCB visited the site and directed the municipality to submit some details (plan, capacity lay out and design details)	Meeting with consultant held on 30.04.2025, consultant submitted the details to LB. LB submitted it to PCB.	PCB visited the site again, report waited for finalizing land and capacity.		
25	Chittur Thathamangalam	IMPACT Kerala Ltd.			Agreement executed with M/s Urban Grey water solutions for DPR preperation on 19-Nov-2024.Agency visited the Municipality.Local Body to initiate steps in carrying out the soil investigation. Consultant submitted a quotation for soil test. Local body to approve. Contour survey completed, Design work in progress.	Work order issued for conducting soil test. Soil test will be done within 2 days. Contour survey completed, Design work in progress.	Public protest was there at site during soil test. Dist. Collector directed the LB to provide police protection during soil sample collection.	Meeting with SM & Municipality conducted on 17.05.2025 before finalizing the DPR.	DPR work in progress.		
THRISSUR DISTRICT											
26	STP with Septage Cotreatment Capability at Kottapuram, Thrissur Corporation (AMRUT-2.0)	Kerala Water Authority	5	DPR Stage	There is public protest against the project and action in this regard is to be taken by the ULB. Hence the SLTC held on 07.01.2025 directed the ULB to resolve the public protest or identify alternative land or submit a replacement sewage/septage management project by 31.03.2025; otherwise, the amount set aside for the project will be reallocated for the projects in the buffer list (WS projects) of AMRUT-2.0. Action in this regard to be taken by the ULB.	There is public protest against the project. The SHPSC held on 07 & 20.02.2025 directed the ULB to resolve the public protest or identify alternative land or submit a replacement sewage/septage management project by 31.03.2025; otherwise, the amount set aside for the project will be reallocated for the projects in the buffer list (WS projects) of AMRUT-2.0. Action in this regard to be taken by the ULB.	Action to be taken by the ULB to comply with the decision taken by the SLTC/ SHPSC.	Action to be taken by the ULB to comply with the decision taken by the SLTC/ SHPSC.	The ULB plans to combine this project with the Kakkala STP project due to public protest. Approval is to be obtained from the Govt. to convert the proposed land for the Kakkala STP construction.	Due to public protest the ULB wants to combine this project with the Kakkala STP project and construct a common STP at Kakkala. Approval is to be obtained from the Agriculture Dept. to convert the proposed land for the Kakkala STP.	Expected to be completed by 31.03.2027.

No.	Location	Implementing Agency	Capacity of the STP proposed in MLD	Project status Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded) (Click on Drop down and Add)	Incremental progress - January 2025	Incremental progress - February 2025	Incremental progress - March 2025	Incremental progress - April 2025	Incremental progress - May 2025	Incremental progress - Jun 2025	Likely Date of Completion of DPR Preparation/ Tendering
27	STP at Athani, Wadakkanchery Municipality, Thrissur (PRS)		350 KLD STP								
28	STP at Kokkala, Thrissur Corporation (AMRUT-2.0)	Thrissur Corporation	2.5	DPR Stage	Since the Agriculture Dept. rejected the ULB's request to convert the proposed land for the STP and since action in this regard is to be taken by the ULB, the SLTC held on 07.01.2025 directed the ULB to identify alternative land or obtain permission from the Agriculture Dept. or submit a replacement sewage/septage management project by 31.03.2025; otherwise, the amount set aside for the project will be reallocated for the projects in the buffer list (WS projects) of AMRUT-2.0. Action in this regard to be taken by the ULB.	The SHPSC held on 07 & 20.02.2025 directed the ULB to submit the technical details of the STP to the District Collector for furnishing a report to the Govt. for taking an appropriate decision on allowing the ULB to construct the STP at the proposed location. The decision on according AS for the project will be taken by the SLTC/ SHPSC based on the decision taken by the Govt. The ULB has submitted the technical details of the proposed STP to the District Collector on 22.02.2025. Report in this regard to be given to the Govt. by the District Collector.	As directed by the District Collector, a joint inspection was held on 10/03/25 involving officials of KLDC, Irrigation Dept., Agriculture Dept. & ULB, and a joint report was submitted to the District Collector on 17/03/25. Report in this regard to be given to the Govt. by the District Collector.	Based on the joint report, the District Collector has recommended (letter dated 25/03/25) to the APC and the Principal Secretary, Agriculture Dept. that the sanction can be given to convert the proposed land for the STP. Further action is awaited from the Agriculture Dept.	The Agriculture Dept. has forwarded the matter to the Govt. and the decision is awaited.	The decision of the Agriculture Dept. is awaited regarding the conversion of the proposed land for the STP.	Expected to be completed by 31.03.2027.
29	STP at Wadakkanchery Municipality, Thrissur (IMPACT KERALA Ltd) (PRS)	IKL		DPR Stage							-
30	Pazhayanoor STP (Thrissur)	Suchitwa mission	0.45 KLD	Work Awarded					WORK ONGOING		
31	General Hospital, Irinjalakuda Municipality, Thrissur (PRS)	Suchitwa mission	0.150						TS RECEIVED ,WORK TO BE STARTED SOON		
32	35 KLD STP at Ramavarma District ayurveda hospital, Thrissur	Suchitwa mission	0.035						No decision taken to revise dpc for changing implementing officer		
33	FSTP at Ramavarmapuram, Thrissur Corporation (AMRUT-1.0)	Thrissur Corporation	0.1	Work Awarded	A meeting was held by the District Collector on 01.01.2025 in the presence of the Hon'ble Mayor and ULB officials and it was decided to execute the works at the same location with Police protection. The ULB Secretary requested the District Collector on 03.01.2025 to hold one more meeting involving the representatives of all political parties. This meeting was held on 30.01.2025 and it was decided to construct the FSTP on the land given to IMA.	A meeting involving ministers is expected to be held soon regarding the shifting of the FSTP location to the land given to IMA in Ramavarmapuram.	A meeting involving ministers is expected to be held soon regarding the shifting of the FSTP location to the land given to IMA in Ramavarmapuram.	A meeting involving ministers is expected to be held regarding the shifting of the FSTP location to the land given to IMA in Ramavarmapuram.	A meeting involving ministers is to be convened jointly by the Hon'ble Mayor and the District Collector to finalize the land.	A meeting involving ministers in the Thrissur District is to be convened to finalize the land.	Expected to be completed by 31.03.2026.
34	STP at Ottuppara Market, Wadakkanchery Municipality, Trissur (IMPACT KERALA Ltd) (PRS)	IKL	18 KLD STP	DPR Approved		Under design review by KIIFB					-
35	STP at Athani market, Wadakkanchery Municipality, Trissur(PRS) (IMPACT KERALA Ltd)	IKL	13.9 KLD STP	DPR Approved		Under design review by KIIFB					-
36	Waste water treatment plant at K R Narayanan memorial hall, Adat GP		0.0065								
37	ETP of 2 KLD at Konnamkulam Milk Production Cooperative Society		0.002								

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38	Augmentation of existing 3 MLD STP at Chakkamkandam to 5 MLD with Septage Cotreatment Capability, Guruvayur Municipality (AMRUT-2.0)	Kerala Water Authority	2	DPR Stage	The DPR to be submitted by the KWA to the ULB for placing in the SLTC/ SHPSC for approval of AS.	The modified DPR to be submitted by KWA for placing in the SLTC/ SHPSC for approval of AS. A meeting chaired by the Chairman, Guruvayur Municipality, is scheduled on 04.03.2025 to finalize the changes required in the DPR.	In the meeting held on 04/03/25 the KWA agreed to modify the DPR (inclusive of septage cotreatment) as suggested by the ULB. The modified DPR is expected to be submitted by 30/04/25.	The modified DPR is expected to be submitted by the KWA by 10/05/25.	The modified DPR is to be submitted by the PPD & WASCON wing of KWA for placing in the SLTC/ SHPSC for approval of AS.	The modified DPR is to be submitted by the PPD & WASCON wing of KWA for placing in the SLTC/ SHPSC for approval of AS.	Expected to be completed by 31.03.2027.
PALAKKAD DISTRICT											
39	Sewerage scheme in Shornur Municipality consisting of sewage network and FSSM with 2.5 MLD capacity STP with co-treatment unit,Palakkad		2.5 MLD	DPR Approved							
40	STP for Municipal Buildings, Palakkad Municipality (AMRUT-2.0)	Palakkad Municipality	0.030	DPR Stage	The DPR to be submitted by the ULB for placing in the SLTC/ SHPSC for approval of AS. EoI is to be called for by the ULB for executing the project in the DBOT mode.	The DPR to be submitted by the ULB for placing in the SLTC/ SHPSC for approval of AS. EoI is to be was called for by the ULB for executing the project in the DBOT mode.	The EoI was called for by the ULB on 01/03/25 and with 12/03/25 as the due date. Three bids received. Technical committee of the ULB is scheduled in the 1st week of April for the scrutiny of bids.	LoA issued to L1 (Auxira) on 29/04/25. Agreement to be signed.	The agreement is to be executed. The DPR is to be submitted by the contractor to the ULB for placing in the SLTC/ SHPSC for approval of AS.	The L1 bidder has not yet executed the agreement. The ULB has informed the L1 bidder that if the agreement is not executed within the 1st week of Jul-2025, the ULB will issue LoA to the L2.	Expected to be completed by 31.12.2026.
41	CHC Alathur, Alathur Block Panchayat , Palakkad	Suchitwa mission	0.090						a meeting with district mission with regarding to the dpr is planning		
42	FSTP at Shornur										
43	Shornur FSTP with grey water management	IMPACT Kerala Ltd.			Agreement executed with M/s Urban Grey water solutions for DPR preperation on 19-Nov-2024.Agency visited the Municipality.Local Body to initiate steps in carrying out the soil investigation. Consultant submitted a quotation for soil test. Local body to approve. Contour survey completed, Design work in progress.	Consultant submitted a quotation for soil test. LB's council approved it on 27.02.2025, will issue the work order by 03.03.2025 to M/s Urban Grey water solutions.	Soil test done. DPR in progress.	Meeting with SM & Municipality conducted on 25.04.2025 for finalization of DPR.	DPR being finalized.		
MALAPPURAM DISTRICT											
44	Sewage Treatment Plant and Sewerage System for Ponnani Municipality (Harbour Zone)	KWA	7.12	DPR Approved							
45	Sewerage system for Ponnani municipality(Kottathara Zone) with STP of capacity 4.2 MLD	KWA	4.2	DPR Approved							
46	District Hospital Perunthalmanna, District Panchayath, Malappuram	Suchitwa mission	0.200		DPC project changed. TS under revision.						
47	Eco-Friendly wastewater Treatment Plant (140 KLD) for Women and Children Hospital Ponnani Municipality, Malappuram	Suchitwa mission	0.14		Tendering procedure yet to start.				KWA DOES NOT TAKE ANY ACTION AFTER TRANSFERRING HUGE AMOUNT OF FUND(Total fund deposited to KWA by the LB. Work yet to start. Land finalised. Tendering procedure yet to start)		
48	DPR on STP at District Hospital, Tirur, Malappuram	Suchitwa mission	0.5		TS issued				work started.		
49	ETP at Tirur Municipality		0.060								

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50	ETP at Tirur Municipality Slaughter house	Suchitwa mission	0.030		Due to strong public opposition to the proposed slaughterhouse, work has been halted. The local body will issue a letter to the government regarding the public protest.	Tendering in progress.			paused due to public protest		
51	Eco Friendly waste water Treatment plant 10 KLD in vettam Community Health centre , Tirur BP	Suchitwa mission	0.01		TS issued. Work yet to be start	TS issued. Work yet to be start			Work started. Agency needs some clarification from SM		
52	FSTP at Perinthalmanna	Aquatechnics Water Treatment Technologies Pvt. Ltd. Ernakulam			Earlier identified site(near to Solid waste management) not feasible. Site to be identified	Council decision is pending as there is election process going on. TS issued on 28.11.2024 by Suchithwa Mission.Draft agreement under verification by the Local Body. The agency requested for mobilization fund. Currently under process.					
53	FSTP at Valancheri	IRTC-PIUMU NDUR			TS issued on 28.11.2024 by Suchithwa Mission.Draft agreement under verification by Local Body						
KOZHIKODE DISTRICT											
54	STP with Septage Cotreatment Capability at Sarovaram, Kozhikode Corporation (AMRUT-2.0)	Kerala Water Authority	27	Tendered	KWA has tendered the work with 14.02.2025 as the opening date.	The due date was extended up to 25.02.2025 as per the request of the prospective bidders. The same has been again extended till 06.03.2025.	Two bids received but both did not qualify. Hence to be retendered by KWA.	KWA retendered the work on 03/04/25. Tender opening is on 02/05/25.	Tender was opened on 02/05/25. Six bids received and are under scrutiny in KWA.	Prequalification process is in progress in KWA. Financial bid to be opened.	Expected to be completed by 31.03.2027.
55	Sewerage System for Zone-A (STP at West Hill Industrial Estate), Kozhikode Corporation (AMRUT-2.0)	Kozhikode Corporation	15	DPR Stage	The SIDCO objected the construction of the STP in the West Hill Industrial Estate saying that the land has to be used only for industry related purposes. In this regard, the ULB has submitted a request to the Govt. on 20.12.2024 (Letter No. 2825110-2024 dated 20.12.2024) for permission to construct the STP at the location. Decision is awaited. The technical committee of the ULB is scrutinizing the two bids received for executing the project in the DBOT mode.	Although the SIDCO objected the construction of the STP in the West Hill Industrial Estate, the ULB is going ahead with the project and has issued LoA on 18.02.2025 to KCCL & AIPPL - JV). Agreement will be issued after the AS is accorded. The contractor has agreed to submit the DPR within 2 months (by 30.04.2025) for placing in the SLTC/ SHPSC for approval of AS.	The contractor has started the DPR preparation works.	The Contractor submitted the DPR on 04/04/25. The Council held on 23/04/25 approved the same. The DPR to be placed by the ULB in the next SLTC/ SHPSC for approval of AS.	The agreement was executed on 21/05/25. The DPR is being vetted by the Anna University. The DPR is to be placed by the ULB in the SLTC/ SHPSC for approval of AS.	The DPR submitted by the contractor is to be placed in the next SLTC/ SHPSC for approval of AS.	Expected to be completed by 31.03.2027.
56	Construction of 7ML D capacity Sewage Treatment Plant and Laying Sewerage Network to Vatakara Municipality, Kozhikode	KWA	7 MLD	DPR Approved							
57	Kozhikkode corporation Zone F	KWA	4 MLD	DPR Approved							
58	STP at Vadakara Municipality, Kozhikkode (IMPACT KERALA Ltd) (PRS)	IMPACT Kerala Ltd.	0.5 MLD Sewage TP 20KLD FSTP 20KLD		Under KIIFB appraisal	Under KIIFB appraisal	Under KIIFB appraisal	Under KIIFB appraisal	Under KIIFB appraisal		-
59	10 KLD Sewage Treatment Plant at EMS Memorial Municipal Town Hall, Koyilandy Municipality, Kozhikkode	Suchitwa mission	0.01		Fund for the project has been sanctioned and the fund transferring process ongoing.				All Fund transferred to KWA.KWA site visited		
60	ETP at GovtAyurvedic Hospital, Talayad, Panangad Grama Panchayath, Kozhikode	Suchitwa mission	0.03		Revised DPR received at SM. Under TS processing stage.	Under TS processing stage.			Ts issued.		
KANNUR											
61	Thalassery, Kannur		22								
62	Kannur corporation Zone 1		13								
63	Payyannur, Kannur		13 MLD								

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64	STP with Septage Cotreatment Capability at Maithanappally, Kannur Corporation (AMRUT-2.0)	Kannur Corporation	5	AS issued	The DPR to be submitted by the KWA to the ULB for placing in the SLTC/ SHPSC for approval of AS.	The DPR was placed in the SHPSC held on 07 & 20.02.2025 and the committee accorded sanction for issuing AS. Minutes of the meeting to be approved and the Govt. Order to be issued.	The minutes of the SHPSC meeting has been approved and the Govt. Order dated 22/03/25 for administrative sanction has been issued.	AS dated 22/03/25 was issued. TS to be issued by KWA.	The Council held on 28/04/25 decided that the project will be implemented by the ULB instead of KWA. As per the request of the ULB, the matter will be placed in the next SLTC/ SHPSC for approval.	The request of the ULB to execute the project in the DBOT mode on their own instead of KWA is to be placed in the next SLTC/ SHPSC for approval.	Expected to be completed by 31.03.2027.
65	STP at Palayad, Taliparamba municipality, Kannur	Suchitwa mission	1		Consent letter from the cooperative industries society has to be received. NOC yet to be received				Land transfer consent from Industries department is not recieved		
66	200 KLD Sewage Treatment Plant - Mattannur Municipality – Reg		0.2		Project Droppped.						
67	STP at hospital, Pazhayangadi, Kannur	Suchitwa mission	0.120	TS issued	Tender process is in progress.				Requested for Urban Agglomeration fund for the project. it is not confirmed yet		
68	STP at old age home, Kannur		0.010		TS issued						
69	DPR for perumba fish market Payyanur Municipality, Kannur	Suchitwa mission	0.01	DPR Stage	Amount deposited to KWA. DPR under preparation by KWA.				KWA is working on DPR. Fund transfered by Municipality to KWA		
70	FSTP at Valliyayi, Mokeri GP	Suchitwa mission			DPR under correction by the agency.				Revised DPR received .further process going on		
WAYANAD DISTRICT											
71	65 KLD Sewage Treatment Plant at Taluk Head Quarters Hospital Vythiri, Kalpetta Block Panchayat, Wayanad	Suchitwa mission	0.065		DPR under revision after the technical committee held on 28/11/2024.	DPR under revision by the agency.					
72	Mananthavady, Wayanad		2 MLD								
KASARGOD DISTRICT											
73	200 KLD Wastewater treatment plant at Tata Trust Govt Hospital, Kasargod		0.2								
74	Kasargod Zone 1		4 MLD								
75	Kasargod Zone 2		4 MLD								
76	Taluk Hospital , Neeleswaram Municipality Kasaragod	Suchitwa mission	0.040		Advanced payment not yet received. Work not started yet.				Requested for advance payment. waiting for the fund		
77	135 KLD Capacity decentralized sullage Treatment plant at Uppala Town Mangalpadi, Kasaragod	Suchitwa mission	0.135		DPR revision under Progress				Process flow approved. Revised DPC form received. As the rate got changed from DSR 2018 to DSR 2021, revised estimate to be received from LB.		
78	CHC, Mangalpady, Manjeshwar Block Panchayath, Kasragod	Suchitwa mission	0.014		DPC approved. Tendering for DPR preparation is under progress				DPC Approved project.		
79	FSTP at Manjeswaram, Manjeswaram GP	Suchitwa mission		TS issued	DPR Under preparation.	TS ISSUED					
	Proposed Sewerage System		279.4684								
1	Sewerage system for Thiruvananthapuram Corporation- Cluster 1 Attukal, Ambalathara, Kaladi, Kalipankulam&K amaleswaram	KWA	7.0(for utilizing exixsting 107 MLD)	DPR Approved							

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2	Preparation of DPR for proposed sewerage system to the Madhippuram colony and surrounding areas near VizhinjamHarbour, TVM	KWA	5	DPR Approved							
3	Detailed Engineering Report for Sewerage Scheme in Neyyattinkara Zone I,TVM		2.5 MLD	DPR Approved							
4	Detailed Engineering Report for the Sewerage scheme in Alappuzha Municipality with ST P – Phase 1		5 MLD	DPR Approved							
5	Detailed Engineering Report for the Sewerage scheme in Haripad Municipality - Sewage Treatment Plant of Capacity 2.6 MLD– Phase 1 and Sewerage Network of Length 58km – Phase 2, Alapuzha		2.6 MLD	DPR Approved							
6	Comprehensive sewerage scheme- Government medical college, Kottayam		5 MLD	DPR Approved							
7	Sewerage System for Kattappana Municipality		1.76	DPR Approved							
8	Detailed Engineering Report for Sewerage Scheme in Kalamassery Municipality-Phase-1, Kochi		2.6 MLD								
9	Sewerage System for Aluva –Zone 1		1.72	DPR Approved							
10	Sewerage system for Pattambi municipality		5.4	DPR Approved							
11	Sewerage system for Ponnani municipality(Kottathara Zone) with STP of capacity 4.2 MLD		4.2	DPR Approved							