

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: 05.02.2026

From

The Member Secretary

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 December 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 December 2025 is submitted herewith. As per the CPCB report on "Polluted River Stretches for Restoration of Water Quality, 2025", a total of 32 polluted river stretches/locations have been identified in the State of Kerala. Further remedial actions are under progress.

Yours faithfully,

MEMBER SECRETARY

Encl: As above

National Mission for Clean Ganga
Monthly Progress Report for the month of December 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 **2198** 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 = **100.71 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 = **74.775 MLD** (Urban)

General Action Completed

In Kerala, 48% is highland (>75 m altitude); 41.76% midland (7.5-75m) and 10.24% is low land (<7.5 m) (<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 was declared the first 100% open defecation-free (ODF) state in India on November 1, 2016. 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. 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.

Actions being taken in compliance with various Original Applications before the Hon'ble National Green Tribunal.

- 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 and submitted draft final report on 24.09.2025. Report is under modification.
- Action is also taken for the rejuvenation of Amayizhinajanthodu, 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.

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.

Completed Projects

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	<ul style="list-style-type: none"> Operational (pH-7.0, TSS-40 mg/L, BOD- 9.0 mg/L, COD-40 mg/L, Oil and grease-BDL, Faecal Coliform- NIL as per analysis report dated 22.12.2025). 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
PATHANAMTHITTA				
2	Sewage Treatment Plant at Sannidhanam (5MLD) Maintained by Travancore Devaswom Board	5 MLD (UASB and SBR)	3.5 MLD	<ul style="list-style-type: none"> Operational (pH – 7.9, BOD – 16 mg/l, Total Suspended Solids - 72 mg/l, TDS - 510 mg/l, oil & grease – 29.5 mg/l, Faecal Coliform - Absent , as per analysis report dated 04.12.2025 after disinfection).
3	Sewage Treatment Plant at Pamba (3.5 MLD) maintained by Travancore Devaswom Board	3.5 MLD (Coagulation & settling)	3.5 MLD	<ul style="list-style-type: none"> Operational (pH-6.8, BOD-11 mg/l, COD- 24 mg/L, Total Suspended Solids - 32 mg/l, Faecal Coliform - Absent , as per analysis report dated 04.12.2025 before chlorination).

				• Action is being taken for preventing its exceedance.
ALAPPUZHA				
4	DEWATS system, Chathanad (For 50 houses in slum area)	25 KLD (Anaerobic Baffle Reactor)	25 KLD	• Operational (pH – 7, BOD – 22.256 mg/l, SS – 11 mg/l, Oil and grease BDL as per the analysis report dated 08.08.2025)
KOTTAYAM				
5	STP for Houseboat (0.09 MLD)at Kumarakom maintained by DTPC, Kottayam	0.09MLD (Activated Sludge Process)	0.09 MLD	• Operational (pH- 7.5, BOD – 11.2 mg/l, SS - 14 mg/l, Oil & Grease-BDL as per the analysis report dated 26.11.2025). • The quality of effluent conforming to standards.
ERNAKULAM				
6	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 23.12.2025 (pH- 7.05, TSS-63.6 mg/l, phosphates- 4.7 mg/l, ammoniacal nitrogen- 32.34 mg/l, BOD-36 mg/l, COD- 92 mg/l, oil & grease- BDL, Total Nitrogen – 38.193 mg/l , Nitrite as Nitrogen – 0.021 mg/l , Nitrates as Nitrogen – 0.540 mg/l , total Kjeldahl nitrogen- 37.632 mg/l), Faecal Coliform – 48000 cfu/100ml
7	STP at Elamkulam, Kochi (AMRUT)	5 MLD(MBBR) with Co treatment 24 KLD	4 MLD	• STP completed & operational. • Co-treatment unit: concreting of tank completed & plastering works is ongoing -expected to be completed by 30.10.2025 • Analysis report dated 03.12.2025 (pH- 7.41, TSS-16.6 mg/l, ammonia as nitrogen- 2.94 mg/l, Free ammonia - 0.053 mg/l,BOD-1.2 mg/l, COD- 24 mg/l, oil & grease- BDL, Nitrates as Nitrogen - 4.515 mg/l , Nitrite as Nitrogen - 0.295 mg/l , total Kjeldahl nitrogen- 5.88 mg/l, Total Nitrogen - 10.69 mg/l, Faecal coliform - 1240 cfu/100ml
8	STP owned by GCDA, International Stadium Kaloor	0.75MLD(Activated Sludge Process)	0.05 MLD	• Operational. • Analysis report dated 11.12.2024 (pH-7.51, TSS-21.5 mg/l, BOD-4.6 mg/l, oil & grease- 5 mg/l).
IDUKKI				
9	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
10	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				
11	Sewage treatment Plant at Guruvayur, Thrissur District	3 MLD(Activated Sludge Process)	0.5MLD	• Operational. (pH-7.65, BOD-6.4 mg/l, COD -160 mg/l, Suspended solids- 1.76 mg/l, Oil and grease- 0.56 mg/l, Faecal coliform- NIL as per Analysis report dated 29.10.2025)
12	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 mg/l as per the analysis report dated 02.09.2024) Action is being taken for preventing exceedance.
KANNUR				
13	Sewage treatment Plant at Taliparambu (0.5MLD) Taliparamba Municipality, Kannur	0.5MLD (Activated Sludge Process)	0.5MLD	• Operational. • pH -6.52, TSS - 33 mg/l, COD- 8 mg/l, BOD - 4 mg/l, Oil and Grease- 0.1 mg/l as per the analysis report dated 17.10.2025
14	STP at old age home Kannur	0.010	0.010	MBBR (Operational) • pH -7.38, TSS – 24 mg/l, BOD – 25 mg/l, COD – 40 mg/l; Oil and Grease- 0.8 mg/l, as per the analysis report dated 01.11.2025
15	STP at Padannappalam	1 MLD	0.3 MLD	Operational Rotating Media Bio Reactor • pH -7.48, TSS - 19 mg/l, BOD-16 mg/l, COD - 30.2 mg/l; Oil and Grease- 0.44 mg/l as per the analysis report dated 17.10.2025
Total Capacity			138.31 MLD	
FSTP				
ERNAKULAM				
1	Septage Treatment Plant at Brahmapuram, Kochi Corporation, Ernakulam	0.1MLD(MBBR)	0.1 MLD	• pH- 6.53 mg/L, BOD- 3 mg/L, COD- 24 mg/L, Oil and Grease-BDL, Total Suspended Solids – BDL, Phosphate – BDL, Nitrate- 1.44 mg/l, Sulphates – 11.89 mg/l, Sulphides – 2.67 mg/l, Ammoniacal Nitrogen – 1.06 mg/l, Phenolic Compounds - BDL, Faecal coliform –35 cfu/ 100 ml, Faecal Streptococci-38 cfu/ 100 ml as per analysis report dated 04.12.2025
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	<ul style="list-style-type: none"> Operational pH – 7.49, TSS –8.2 mg/l, BOD – 7.58 mg/l, Oil and Grease- 6.32 mg/l as per the analysis report dated 31.05.2025
Total Capacity			0.22 MLD	
ETPs/CETPs				
IDUKKI				
1	Construction of 6 KLD ETP for Kumali Slaughter House Kumali GP, Idukki	0.06 MLD		<ul style="list-style-type: none"> Slaughter house is not functioning.
MALAPPURAM				
2	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.
3	Effluent treatment Plant at Tirur (fish market)	0.045 MLD (Biological)		Operational Ph- 5.9, BOD – 4.4 mg/l, COD – 16 mg/l, TSS – 58 mg/l, Oil & Grease – BDL as per analysis report dated 15.05.2025. Action is being taken for preventing its exceedance.
Total Capacity			0.115 MLD	

Institutional STPs

Sl. No.	STP location	STP Installed capacity	Utilization	Status
THIRUVANANTHAPURAM				
1	STP at Medical College, Thiruvananthapuram-Phase I & II (PRS)	5MLD(MBBR)	3 MLD	<ul style="list-style-type: none"> Operational (pH-3.4, TSS-9.0 mg/L,BOD- 0.6 mg/L, Bio – assay Test – 100% fish died within 1 hour, COD- 44 mg/L, oil and grease-0.7 mg/L, Total Coliform – NIL, FC – NIL as per analysis report dated 22.12.2025). The matter is being followed up.
ALAPPUZHA				
2	STP at General Hospital	0.24 MLD	0.1 MLD	Electro coagulation. (Ph – 7.3, BOD – 2.8 mg/l, COD – 10 mg/l, SS – 10 mg/l, Total Phosphorous – 0.043 mg/l, Faecal Coliform – NIL, Total Nitrogen – 22.507 mg/l, Oil and grease – BDL as per the analysis report on 09.10.2025)
ERNAKULAM				

3	STP at Kalamassery, Market, Kalamassery Municipality (PRS)	10 KLD		Started operating
THRISSUR				
4	STP at General Hospital, Thrissur (AMRUT-1.0)	0.36 MLD	0.2 MLD	pH – 4.6, BOD – 2.4 mg/l, COD – 12 mg/l, SS – 6.1 mg/l, Total Nitrogen – 2.8 mg/l, Total Phosphorous – BDL, Oil and grease – 0.37 mg/l, Faecal Coliform – NIL as per the analysis report on 15.01.2026)
MALAPPURAM				
5	STP at Municipal Bus Stand, Tirur (PRS)	0.05MLD (Biological)	Working	Operational (Ph – 6.5, BOD – 19 mg/l, COD – 80 mg/l, TSS – 56 mg/l, Oil and grease – BDL as per the analysis report on 23.05.2025)
6	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
KOZHIKODE				
7	STP at Kozhikode Medical College.	2 MLD Old plant.	Working	<ul style="list-style-type: none"> Operational. According to analysis report on 08.01.2026 the following values were observed. pH -7, TSS- 4.5 mg/l, Total Residual Chlorine – Nil, COD- 64 mg/l, Oil and Grease- BDL, BOD-1.73 mg/l, Ammoniacal – N 39.024 mg/l and Nitrate – 0.604 mg/l
8	STP at Kozhikode Medical College.	2 MLD With 100 KLD Co-treatment Facility	Commissioned on 05.10.2023	<ul style="list-style-type: none"> Operational According to analysis report on 08.01.2026 the following values were observed. pH -7.5, TSS-BDL mg/l, Total Residual Chlorine – Nil, COD- 72 mg/l, Oil and Grease- BDL, BOD-4.13 mg/l, Ammoniacal – N 184.321 mg/l and Nitrate – 1.737 mg/l
9	STP at Kozhikode Medical College.	1 MLD	0.1 MLD	<ul style="list-style-type: none"> Operational According to analysis report on 08.01.2026 the following values were observed. pH -7.5, TSS-BDL, Total Residual Chlorine – Nil, COD- 104 mg/l, Oil and Grease- BDL, BOD-12.13 mg/l, Ammoniacal – N 99.303 mg/l and Nitrate – 0.895 mg/l

10	STP at Kozhikode Medical College	500 KLD		Operational • According to analysis report on 08.01.2026 the following values were observed. pH -9.5, Total Residual Chlorine - NIL, TSS-BDL, COD- 16 mg/l, Oil and Grease- BDL , BOD-3.33 mg/l, Ammoniacal – N 1.5873 mg/l and Nitrate – N-1.042 mg/l
11	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.
WAYANAD				
12	Sewage Treatment Plant at Taluk Hospital, Sulthan Bathery	0.14 MLD(MBBR)	0.05 MLD	• Operational • pH -7.29, TSS – 19 mg/l, BOD – 5.4 mg/l, Bio assay – 100% survival, FC – Nil as per the analysis report dated 17.10.2025

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

No.	Location	Implementing Agency	Capacity of the plant in MLD	Physical Progress in %	Present Status	Timeline of Completion
THIRUVANANTHAPURAM						
1	FSTP at Varkala Municipality, Thiruvananthapuram (IMPACT KERALA Ltd)	IMPACT Kerala Ltd.	50 KLD FSTP	Work Awarded	<ul style="list-style-type: none"> • Work awarded after DBO tender. Design being vetted by Anna University. Work on going on site. • 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. • Foundation work completed. Receiving chamber wall concrete completed. • Office building superstructure works in progress. • Structural framework and chamber construction are ongoing 	
2	ETP 10 KLD Capacity, Nedumangad Municipality, Thiruvananthapuram		0.01	80%	Works completed.	
KOLLAM						
3	STP at Kureepuzha,	Kerala Water	12	94%	STP: Finishing work of the	STP:

	Kollam (AMRUT-1.0)	Authority/ AMRUT			admin building finishing in progress. Sewer Network & Connections (AMRUT 2.0): <i>Vacuum Sewer Network:</i> The DPR agency engaged by the ULB is preparing the DPR. <i>Iron Bridge Sewer Network:</i> TS to be revised by KWA as per the DSR-2021 and the work is to be tendered.	31.01.2026 FSTP: 31.03.2026 Sewer Network: Vacuum Sewer Network – DPR is expected to be submitted by 31.01.2026. Iron Bridge Sewer Network expected to be tendered by 31.01.2026
4	STP at Chitumala Old Age Home. Chitumala BP, Kollam		0.015	98%	Original contractor of the work was terminated in 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. Joint inspection by the state technical officer and agency was 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. Currently the DPR is under revision based on DSR 2021. DPR under verification.	
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.	

					Dhawalakuzhy – Raw sewage tank excavation work in progress. Thanni, Valiyavila & Dhawalakuzhy - Network line and manhole installation in progress. Thanni, Valiyavila & Dhawalakuzhy - Above ground 4 tanks wall concrete completed. Thanni - Office building concrete work completed. Valiyavila – Office building concrete work completed. Raw sewage tank concrete in progress. Thanni & Valiyavila - Network line and manhole installation in progress. O&M contract to be signed	
ALAPPUZHA						
7	FSTP at Cherthala Municipality , Alappuzha	IMPACT KERALA Ltd	250 KLD Septage TP	99%	Cherthala FSTP plant inaugurated on 28.03.2025. Trial run going on. Some pending works to complete	
IDUKKI						
8	FSTP at Munnar, Idukki		50 KLD	5%	5% work completed. Due to a court case, work stopped temporarily District Collector Idukki has submitted report to Government for re-assigning the land to Munnar GP. Work stopped due to court case	Stalled
KOCHI						
9	STP at Ambedkar Colony, Div-16, Edakochi South (AMRUT-1.0)	Kochi Corporation/ AMRUT	1.1	75%	Work in progress.	31.03.2026
10	STP at RAY Flats, Fort Kochi, Kochi Corporation (AMRUT-2.0)	Kochi Corporation	0.105	60%	Work in progress.	31.03.2026
THRISSUR						
11	Viyoor central jail STP (Thrissur)		0.05	65%	Civil works completed. Mechanical works and sewernetwork to be started. Supply of materials completed	
12	Kunnumkulam, Thrissur		0.01		Ready for commissioning	Ready for commencing
13	STP at CHC Cherpu BP, Thrissur		0.01	90%	Plant construction completed. Final bill is to be submitted by LB. The revised estimate has been prepared, received and is currently under verification by Suchitwa Mission.	
14	STP at Community Health Centre Pazhayannoor Block Panchayath ,Thirssur		45 KLD	1%	Work Started. Work in progress.	31.12.2025

PALAKKAD						
15	STP at Ottappalam Municipality, Palakkad District	IMPACT KERALA Ltd	1.50ML D Co-treatment	Work Awarded	STP work in progress. Pile completed. The concreting of the grade beam, base slab and RCC wall of the Intermediate Storage Tank, Sludge Holding Tank and Treated Water Tank completed. Pile cap & grade beam reinforcement for SBR-1 tank completed. Steel work of grade beam and pile cap concrete completed for SBR 1 & 2 tanks. Intermediate Storage tank -1, Structure completed. Concreting up to base slab completed. Reinforcement of RCC wall done. Water leakage testing in progress. Network design finalised by considering the taluk hospital area instead of the railway land. Around 50% plant work completed.	
16	FSTP at Yakkara, Palakkad Municipality (AMRUT-1.0)	Palakkad Municipality	0.1	Physically completed	Electrical connection work is to be completed. Additional works like approach road, installation of solar panels etc. are in progress. By law regarding septage collection is to be placed in the new Council for approval.	Expected to be made operational by 28.02.2026
MALAPPURAM						
17	STP at Pambad Housing Colony Malappuram Municipality, Malappuram		0.110	99%	Mechanical work pending due to electrical connection problem. ULB requested to KSEB.	
18	STP at District Hospital, Tirur, Malappuram		0.5	10%	Work Ongoing- Structure work completed	
19	Eco Friendly waste water Treatment plant 10 KLD in vettam Community Health centre , Tirur BP		0.01	95%	Work started. Agency needs some clarification from SM. Work Ongoing	
KOZHIKODE						
20	Wastewater treatment plant at Kuttiyadi government taluk hospital, Kozhikode		0.080	98%	Physical work completed. Electrical work pending	
KANNUR						
21	Sewage Treatment Plant 20 KLD at Shopping Complex cum multiplex Theatre, Kallumutti, Irutti Payam, Grama Panchayath1, Kannur		0.02	2%	Work order issued on 26-06-2025. Agreement executed on 16.07.2025. PCB sanction received. Intimated contractor to submit design for the work as per PCB approved	31.03.2026

					parameters.	
22	STP for Convention Centre, Pinarayi Grama Panchayath, Kannur		0.02	95%	DPR under correction Stage	
23	FSTP at Chelora, Kannur Corporation (AMRUT-1.0)	Kannur Corporation/ AMRUT	100 KLD	99%	Electrical connection work to be completed and trial run to be done.	31.01.2026
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.	

Details of proposed STP/STPs with co-treatment facility 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)	Likely Date of Completion of DPR Preparation/ Tendering
THIRUVANANTHAPURAM						
1	STP at Rajaji Nagar, Thiruvananthapuram Corporation	Thiruvananthapuram Corporation	0.5	Work Awarded	<p>STP: The ULB held discussions with the KSPCB and Eco Paradigm, but a consensus has not been arrived at regarding the quality of effluent from the proposed STP. The contractor has requested for price escalation (29%). The ULB is likely to reject the same and retender the work. Way forward is to be decided by the ULB regarding the STP construction.</p> <p>Temporary Shed: The agreement was executed on 09/10/25. Work has not been started since the STP construction has not been confirmed.</p> <p>Sewer Network: TS issuance is delayed as the STP construction has not been confirmed.</p>	<p>STP: Expected to be tendered again by 31.01.2026</p> <p>Sewage Network: Expected to be tendered by 31.01.2026</p>
KOLLAM						
2	CHC Sooranadu,	Suchitwa	0.028	At	LSG planning to tender for DPR	

	Sasthancotta Block Panchayath, Kollam	mission		Tendering Stage	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.	
3	Waste water Treatment (90 KLD) System for coastal housing and Tsunmai resettlement facility at karikuzhi, mayyanadGrama Panchayath , Kollam		0.09	At DPR Stage	Physical progress – 57% Thanni, Valiyavila & Dhawalakuzhy - Above ground tanks wall concrete completed and network line and manhole installation in progress. Thanni - Office building concrete work completed, plastering work completed. Raw sewage tank concrete work completed. Valiyavila – Office building concrete work & plastering completed. Raw sewage tank concrete work in progress. Dhawalakuzhy – Raw sewage tank excavation work in progress. Transferred to KIIFB	
PATHANAMTHITTA						
4	Taluk Hospital Thiruvalla , Thiruvalla Municipality, Pathanamthitta	Suchitwa mission	0.225	Tendering stage	TS issued. Tendering Documents submitted to State Suchitwa Mission for verification. Tender processing going on.	31.12.2026
ALAPPUZHA						
5	STP with Septage Cotreatment Capability at Alissery, Alappuzha Municipality (AMRUT-2.0)	Kerala Water Authority	5	AS Issued	AS received for this work under AMRUT 2.0 for an amount of 68 Crores on 22/3/25. TS estimate submitted by SE on 12-9-2025 and is under scrutiny. Tendered: The TS was issued on 04.11.2025, and the tender was floated by KWA on 05.11.2025 with the opening on 10.12.2025. The tender opening date was extended till 19/12/25 but only 1 bid was received. Hence again extended till 31/12/25, 3 bids were received.	Expected to be awarded by 28.02.2026
6	STP at Bhajanamadom Colony, Alappuzha Municipality (AMRUT-2.0)	Alappuzha Municipality	0.012	DPR Stage	In the meeting held on 16/10/25, the Bhajanamadom Church authorities didn't agree to relinquish the land for the STP. Way forward is to be decided by the ULB. AS to be issued: The Division Councilor has given a letter to the ULB's Chairperson for cancelling the work. The decision on cancellation of the work is to be taken by the new Council.	Expected to be cancelled by 31.01.2026
KOTTAYAM						
7	Taluk Hospital Pampady, Pampady Block panchayat, Kottayam		0.085	Tendering stage	Tendering will be done after the approval of spill over projects by DPC. PCB approval pending.	31.07.2026
IDUKKI						
8	STP for Idukki district	Suchitwa	0.205	Tendere	Project modified as STP for	30.06.2026

	hospital and district Ayurveda hospital, Thodupuzha municipality, Idukki	mission		d	Thodupuzha district hospital. SM verified the DPR DPR under verification by State Mission Correction not yet submitted by agency.	
9	STP at private bus station, Kothayikkunnu, Thodupuzha municipality Idukki	Suchitwa mission	0.03	Tendering stage.	TS issued for electrical works. Technical Sanction of mechanical items needs to be issued. Will retender soon.	
ERNAKULAM						
10	4 STPs are coming up under the KMRL's Integrated Water transport System project at	KWA	105	DPR Stage	Approved DPR of 55MLD STP at Elamkulam and 50MLD STP at Muttar submitted to GoK for getting appl from NRCD. DPR of Sewer Network of Muttar and Elamkulam STPs submitted to KIIFB for approval. AS not yet received.	31.09.2026
	Elamkulam (17.5 MLD) revised to 55 MLD					
	Vennala (24MLD) clubbed with Elamkulam					
	Muttar (16.5 MLD) revised to 50MLD					
	Perandur (19 MLD) clubbed with Muttar					
11	STP with Septage Cotreatment Capability at Elamkulam, Kochi Corporation	Kerala Water Authority	5	To be Tendere d	STP: As per the final order received from the Court on 23/09/25, the order dated 01/07/25 has to be complied. KWA asked the L1 bidder to execute the agreement by 01/11/25, but so far, no action has been taken by them. There is no response from the bidder regarding agreement execution. Hence, the work is likely to be tendered again by KWA after revising the TS as per DSR-2021 Sewer Network: The TS was issued by the PPD & WASCON, KWA on 29/09/25. The tender opening date of the 27.74 km package was extended till 18/12/25 but only 1 bid was received. Hence again extended till 31/12/25, 4 bids were received.	Sewer Network: One package is expected to be awarded by 28.02.2026 and the other package is expected to be tendered by 31.01.2026
12	CHC Kadayiruppu, Vadavucode Block Panchayat, Ernakulam	Suchitwa mission	0.025	DPR Stage	LB preparing estimate in Price software. DPR under correction by the agency.	31.08.2026
13	Chittur Thathamangalam FSTP	IMPACT Kerala Ltd.			<ul style="list-style-type: none"> Agreement executed with M/s Urban Grey Water solutions for DPR preparation 19-Nov-2024. Consultant submitted modified DPR on 02.08.2024. Submitted to SM on 08.08.2025 for funding. 	31.12.2026
THRISSUR						
14	5 MLD Decentralized	Thrissur	5	DPR	Due to public protest and due to	Expected to

	Sewerage Scheme (STP at Kokkala), Thrissur Corporation (AMRUT-2.0)	Corporation		Stage To be tendered:	the difficulty in obtaining clearance from KSPCB, the ULB decided to combine the Kottappuram and Kokkala sewerage projects by constructing a common STP at Kokkala. As directed by the SLTC held on 08.10.2025, a basic report on the combined project, '5 MLD Decentralized Sewerage Scheme', was submitted by the ULB. AS was issued via Govt. Order (No.2787) dated 10.11.2025 for the combined project. The ULB has decided to execute the project in the DBOT mode. The draft DBOT tender/ EoI document is to be submitted by the ULB to the CE, LSGD for vetting.	be tendered by 28.02.2026
15	STP at Athani, Wadakkanchery Municipality, Thrissur (PRS)		350 KLD STP		Site identified. DPR approved by RKI	31.12.2026
16	STP at Wadakkanchery Municipality, Thrissur (PRS)	IMPACT KERALA Ltd		DPR Stage	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.	
17	Pazhayanoor STP (Thrissur)	KWA	0.45 KLD	Work awarded	Design vetted by Sewerage Circle, Kochi. Work ongoing. Work Handover to KWA	31.12.2026
18	35 KLD STP at Ramavarma District ayurveda hospital, Thrissur	Suchitwa mission	0.035	DPR Stage	Return for modification	
19	STP at Ottuppara Market, Wadakkanchery Municipality, Thrissur (IMPACT KERALA Ltd) (PRS)	IMPACT KERALA Ltd	18KLD 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
20	STP at Athani market, Wadakkanchery Municipality, Thrissur (IMPACT KERALA Ltd)	IMPACT KERALA Ltd	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
21	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
22	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 AS to be issued:	There is delay in the finalization of the DPR by KWA as the ULB wants to remove the sewer network and cotreatment components from the DPR. In the meeting held by the Principal Secretary, LSGD, on 09/10/25, the ULB's Secretary was directed to take necessary action to take up the works as per the DPR initially submitted by the KWA. Action in this regard is to be taken.	DPR expected to be finalized by 31.01.2026

					Even though a meeting was conducted with Hon'ble MLA, no sanction was obtained for road cutting to lay sewer network. The KWA is revising the DPR by including sewer laying using vacuum technology as per the discussion held with the ULB officials and the same will be placed in the Council for approval.	
23	General Hospital, Irinjalakuda Municipality, Thrissur (PRS)		0.150	TS received	TS received, work to be started soon.	31.12.2026
PALAKKAD						
24	STP for Municipal Buildings, Palakkad Municipality (AMRUT-2.0)	Palakkad Municipality	0.030	DPR Stage	The Special Council held on 02/08/25 approved the issuance of LoA to L2 and the LoA was issued on 21/08/25. The DPR is being prepared by the DBOT contractor.	DPR is expected to be submitted by 31.01.2026
25	CHC Alathur, Alathur Block Panchayat, Palakkad	Suchitwa mission	0.090	DPR Stage	Instructed LB to call Tender for DPR preparation	
MALAPPURAM						
26	Sewage Treatment Plant and Sewerage System for Ponnani Municipality (Harbour Zone)	Kerala Water Authority	7.12		DPR in PRICE 3 Submitted to Govt and RKI for AS on 17.10.2022. Resolution not obtained.	
27	Sewerage system for Ponnani municipality(Kottathara Zone) with STP of capacity 4.2 MLD	Kerala Water Authority	4.2		DPR Submitted to Government of Kerala and RKI for AS on 20.10.2022. LGSD has put up proposal for a convention centre at the land earmarked for STP. Hence, resolution not obtained.	
28	Eco-Friendly wastewater Treatment Plant (140 KLD) for Women and Children Hospital Ponnani Municipality, Malappuram	Suchitwa mission	0.14	Tendering stage	Total fund deposited to KWA by the LB. Work yet to start. Land finalized.NIT under preparation. PCB and CRZ clearance required and it is initiated by Ponnani Municipality. Tender publishing next week with due date 10.09.25	
KOZHIKODE						
29	STP with Septage Cotreatment Capability at Sarovaram, Kozhikode Corporation	Kerala Water Authority	27	Tendered	The ULB's proposal to execute the project on their own instead of KWA was placed in the SLTC/SHPSC.The SLTC held on 08/10/25 and the SHPSC held on 27/10/25 decided that the proposal can't be considered as there is a live tender and there is a court case related to the tender. A confirmation is required from the ULB regarding the management of the additional fund required due to tender excess for execution of the agreement between KWA and the bidder (no stay from the court regarding agreement execution). This matter is to be placed in the new Council for taking a decision.	Expected to be awarded by 31.01.2026
30	Sewerage System for	Kozhikode	15	DPR	STP: The AS was issued via	STP:

	Zone-A (STP at West Hill Industrial Estate), Kozhikode Corporation (AMRUT-2.0, alternative project for Avikkalathodu & Kothi sewerage projects)	Corporation		Stage To be started:	Govt. Order (No.2787) dated 10.11.2025. Technical approval and KCZMA's consent are to be obtained for starting the work. The project details are to be submitted by the ULB to the CE, LSGD for placement in the Technical Committee for technical approval. Consent to Establish dated 28.11.2025 has been issued by the KSPCB and the application for KCZMA's consent is to be submitted by the ULB. ULB has submitted the application to KCZMA on 16/12/25 for the CRZ clearance. The Kerala SIDCO Ltd. has objected the construction of the STP in the West Hill Industrial Estate. The work can be started after obtaining the CRZ clearance and after the resolution of the issue with SIDCO. Sewer Network: Agreement with Nasit Infrastructure Pvt. Ltd is to be renewed by the ULB after the MCC expires. The contractor has completed the survey works and the revised design is expected to be submitted by Dec 2025. The revised design is to be submitted by the contractor.	Expected to be started by 28.02.2026 Sewer Network: Expected to be started by 28.02.2026
31	Construction of 7MLD capacity Sewage Treatment Plant and Laying Sewerage Network to Vatakara Municipality, Kozhikode	Kerala Water Authority	7MLD	DPR stage	DPR Submitted to Govt and RKI for AS on 14/02/2023	30.04.2026
32	Kozhikkode corporation Zone F	Kerala Water Authority	4 MLD	DPR stage	Submitted to Govt and RKI for AS on 29.09.2022	30.06.2026
33	STP at Vadakara Municipality, Kozhikkode	IMPACT KERALA LA 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 from Agriculture (NCA) Department regarding land conversion. Under KIIFB appraisal. Under DPR preparation.	Land Issue. Land Conversion process ongoing
34	30 KLD Sewage Treatment Plant at EMS Memorial Municipal Town Hall, Koyilandy Municipality, Kozhikkode	Kerala Water Authority	0.03	Tendering Stage	TS issued. Tender notice published with due date 08.09.2025. PCB clearance required and is initiated by Municipality. All fund transferred to KWA. KWA site visited.	
KANNUR						
35	STP with Septage Cotreatment Capability at Maithanappally, Kannur Corporation (AMRUT-2.0)	Kerala Water Authority	5	AS Issued To be retendered:	The request submitted by the ULB to execute the project on their own instead of KWA was placed in the SLTC/SHPS. As directed by the SLTC held on 08/10/25, the CE, LSGD submitted a report regarding the tender process followed by the	Expected to be tendered again by 28.02.2026

					ULB. The same was placed in the SHPSC held on 27/10/25 and the committee decided that the ULB shall execute the project through KWA since the tender process followed by the ULB for executing the project in the DBOT mode is flawed and hence the tender shall be cancelled. The decision on handing over the work back to KWA and on retendering are to be taken by the new Council.	
36	STP at Palayad, Taliparamba municipality, Kannur	Suchitwa mission	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
37	STP at hospital, Pazhayangadi, Kannur	Kerala Water Authority	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
38	STP at old age home, Kannur		0.010	Tendering Stage	. TS issued. Work completed.	31.06.2026
39	Thalassery, Kannur		22	DPR Stage	DPR Submitted to Govt and RKI for AS on 28/11/2022	30.10.2026
40	Kannur corporation Zone 1		13	DPR Stage	DPR Submitted to Govt and RKI for AS on 25/11/2022	30.10.2026
41	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
42	DPR for perumba fish market Payyanur Municipality, Kannur	Kerala Water Authority	0.01	Work tendered	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. Tender was opened. Five bids received. PQ under evaluation	
43	150 KLD Sewage Treatment Plant - Mattannur Municipality		0.2		TS issued 06-11-2025	
WAYANAD						
44	65 KLD Sewage Treatment Plant at Taluk Head Quarters Hospital Vythiri, Kalpetta Block Panchayat, Wayanad	Suchitwa mission	0.065	At DPR Stage	M/s Ram Biologicals attended Suchitwa Mission to discuss the corrections in DPR. DPR under revision by the agency. DPR under scrutiny, needs to revised with higher capacity.	31.12.2026
KASARGOD						
45	Kasargod Zone 1		4MLD	DPR Stage	DPR was prepared and submitted . No resolution obtained	31.12.2026
46	Kasargod Zone		4 MLD	DPR	DPR was prepared and submitted .	31.12.2026

	2			Stage	No resolution obtained	
47	Taluk Hospital , Neeleswaram Municipality Kasaragod	Suchitwa mission	0.040	Tenderin g 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
48	135 KLD Capacity decentralized sullage Treatment plant at Uppala Town Mangalpadi, Kasaragod	Suchitwa mission	0.135	DPR Stage	<ul style="list-style-type: none"> • 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 DPC form received. As the rate got changed from DSR 2018 to DSR 2021, revised estimate to be received from LB.	31.12.2026
49	CHC, Mangalpady, Manjeshwar Block Panchayath, Kasragod	Suchitwa mission	0.014	DPR tendering Stage	Project revised as Mangalpady taluk hospital. DPR preparation by the agency. DPR preparation delayed due to fund ambiguity for STP at Gram Panchayats DPC Approved project.	31.07.2026

Details of proposed ETPs in the State

No	Location	Imple menting Agency	Capacity of the ETP propose d in MLD	Status of Project (at DPR Stage/ DPR Approved/ AS issued/ TS issued/ Tendering Stage/ Tendered/ Work Awarded)	Status of Project (in Detail)	Likely Date of Completion of DPR Preparation/ Tendering
THIRUVANANTHAPURAM						
1	ETP at KSRTC Depot, Thampanoor, Thiruvananthapuram (AMRUT-2.0)	KSRTC	0.02	AS issued TS to be issued:	The KSPCB informed the KSRTC that ETP is necessary as the Bus Depot is an orange category industry. An external agency to be engaged by the KSRTC for the preparation of the DPR.	DPR preparation expected to be completed by 31.03.2026
KOTTAYAM						
2	ETP at Kodimatha, Kottayam Municipality		0.030	At DPR Stage	<ul style="list-style-type: none"> • Process flow approved. • DPR to be modified by the agency. Technical Sanction issued on 07.02.2025. Manual TS obtained. Slaughter house not operational, ETP construction works resume after the slaughter house starts functioning	
ERNAKULAM						

3	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.	31.08.2026
THRISSUR						
4	ETP of 2 KLD at Konnamkulam Milk Production Cooperative Society		0.002	DPR stage	Under technical scrutiny	
MALAPPURAM						
5	ETP at Tirur Municipality	Suchitwa Mission	0.060	DPR Stage	LB to submit the revised DPR with revised DPC form	29.07.2025
6	ETP at Tirur Municipality Slaughter house	Suchitwa Mission	0.030	Tendering Stage	Paused due to public protest, Slaughter house not wroking	31.08.2026
KOZHICKODE						
7	ETP at Govt Ayurvedic Hospital, Talayad, Panangad Grama Panchayath, Kozhikode	Suchitwa Mission	0.03	TS issued	TS issued.	31.12.2025

Details of proposed FSTPs in the State

No.	Location	Implementing Agency	Capacity of the FSTP 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)	Likely Date of Completion of DPR Preparation/ Tendering
KOLLAM						
1	Kureepuzha 50 KLD FSTP (Proposed)	KWA	0.05	To be retendered	The SLTC held on 08.10.2025 and the SHPSC held on 27.10.2025 decided to implement the FSTP under AMRUT-2.0 (transfer from AMRUT-1.0). FSTP to be retendered by KWA. FSTP is to be retendered by KWA after revising the TS as per the DSR 2021.	Expected to be tendered by 31.12.2026
KOTTAYAM						
2	FSTP at Vellor GP			DPR stage	Land allotted from industries department, suitable land identified. Procedure for land acquisition and lease is being processed	31.12.2026
3	FSTP at Manganam		0.05	DPR stage	A new land was identified as the earlier land was not available , A govt meeting to be held for the availabilty of land.	31.12.2025
ERNAKULAM						
4	FSTP at Brahmapuram, Kochi Corporation (AMRUT-2.0)	Kochi Corporation	1	AS Issued To be Started	The agreement was executed on 29/10/25 and the site is to be handed over to the contractor. The work is expected to be started after the election. The biomining rejection waste to be removed from the site for completing	Expected to be started by 31.01.2026

					the survey for the site hand over.	
5	Muvattupuzha Municipality's FSTP Project	IMPACT Kerala Ltd.	0.05		<ul style="list-style-type: none"> 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
6	North Paravur FSTP	IMPACT Kerala Ltd.			Bio mining completed, Soil test conducting by the agency	30.05.2026
THRISSUR						
7	FSTP at Ramavaram, Thrissur Corporation	Thrissur Corporation	0.1	Work Awarded To be retendered	The SLTC held on 08/10/25 and the SHPSC held on 27/10/25 decided to implement the FSTP under AMRUT-2.0 (transfer from AMRUT-1.0). To be retendered: The land for the FSTP is to be confirmed by the ULB. The matter is to be placed in the new Council for taking a decision.	Expected to be tendered by 28.02.2026
PALAKKAD						
8	FSTP at Shornur	IMPACT Kerala Ltd.			Cluster selection ongoing, by considering the nearby local bodies.	
MALAPPURAM						
9	FSTP at Perinthalmanna	Aquatechnics Water Treatment Technologies Pvt. Ltd. Ernakulam			Land demarcating is being done by taluk surveyor	
10	FSTP at Valancheri	IRTC-PIUMUNDUR			Site Clearance done. Applied for KSEB Electricity connection.	
KANNUR						
11	FSTP at Valliyayi, Mokeri GP	Suchitwa Mission			TS issued on 17-10-2025	
KASARGODE						
12	FSTP at Mangalpady, 50 KLD	Suchitwa mission	0.05		TS issued	
13	FSTP at Manjeswaram, Manjeswaram GP	Suchitwa mission			TS issued. Work to be awarded	

Projects by Indian Railway

Sl No.	Location	Implementing Agency	Status of Project
1	STP at Ernakulam Junction railway station	Indian Railway	Ernakulam South Railway Station had submitted application for CTE for installation of STPs of 960 KLD and 240 KLD. No work was noted to be done regarding the installation of the STPs. It was informed by the officials of Railway that the consultancy to which the project of STP installation was assigned had opted out from the contract and the whole redevelopment project including the installation of STP at south railway station has been stopped currently. The railway officials informed that it might take 3 months more time to re tender. The application for CTE submitted was scrutinized and was returned on 20.01.2025 for submitting revised site plan. The application has not been resubmitted till date. Currently no progress is noted regarding the installation of STP and re submission of the application for CTE. Presently, the sewage is disposed through the existing septic tank system.
2	STP at Aluva station	Indian Railway	Inspection conducted on 23.06.2025. It is noted that the railway station has not taken any action for the installation of permanent and temporary STP. Only flooring was constructed at the STP location. The station is currently operating with the existing septic tank-soak pit system itself. MRF of the station is functional and they informed that the waste has been disposed to M/s. Earth Clean. The railway station has not renewed the Consent to Operate and is currently operating without valid Consent to Operate.
3	STP at Ernakulam North	Indian Railway	Ernakulam Town Railway Station had obtained Consent to Establish on 06.02.2025 for installation of Sewage Treatment Plant of 350 KLD Capacity. During the inspection no progress was seen regarding the installation of the STP. During the discussion with the Railway officials it was informed that they are awaiting technical sanction for the structural drawing of the civil tank and construction of STP is expected to start within 2 months. Currently the sewage is disposed through the temporary STP installed at the railway station.
4	Diesel Loco Shed, Southern Railway, Ernakulam	Indian Railway	Removal of oily sludge near the diesel loco shed 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 sq ft 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 be disposed to KEIL. Even though there is a large extent of affected water logged area, the railway has now completed remediation of 2000 sq ft land area.

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		5				

	sewerage system to the Madhippuram colony and surrounding areas near Vizhinjam Harbour, TVM						
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, Alappuzha		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	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/SHPC 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.	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/SHPC 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.	31.12.2026

12	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 Avikkalthurdu STP work) the ULB has proposed to combine the Kothi & Avikkalthurdu sewerage projects proposed a 13 MLD STP at a new location (West Hill Industrial Estate). The 12 th SLTC held on 11/07/24 recommended 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	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) 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.	31.03.2027
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					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.	
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Mobile FSTP

No.	Location	Implementing Agency	Capacity of the STP proposed in MLD	Status of Project (in Detail)	Incremental Progress	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. The trial run was done by Bhouma on 05.07.2025. As per the test results (dated 28.07.2025) given by the KSPCB it was observed that the faecal coliform content in the effluent taken from both units and the oil & grease content in the effluent of one unit were above the allowable limits. Hence the ULB has asked Bhouma to conduct the trial run & testing again. This time the ULB is planning to give samples for testing to the KSPCB's lab as well as to a NABL accredited lab suggested by the	

					KSPCB. Trial run & testing to be conducted again by Bhouma. Trial run was done again by Bhouma on 15.11.2025. As per the test results received, all parameters were found to be within the allowable limits prescribed by the KSPCB. MTUs are to be made operational by the ULB.	
3	Mobile Treatment Unit - Kodungalloor, Neyyattinkara, Chirayinkeezhu, Kumarakam, Wadakkancherry			proposal stage		
4	Mobile Septage Treatment Units – 2 nos., Kollam Corporation (AMRUT-1.0)	0.02 (0.01x2 nos.)	45%	Approval for procurement was issued via Govt. Order dated 10/11/25 as per the decision taken by the SHPSC held on 27/10/25. One unit delivered. Tender to be floated by the ULB in the GeM portal for the 2 nd unit.	Tender to be floated by the ULB in the GeM portal for the 2 nd unit.	Tender is expected to be floated for the 2nd unit by 15.01.2026.

Underground STPs

No	Projects	Status
1	UG STP for Thavanur Central Prison & Correctional Home, Malappuram Dist.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 = **211** (As per online consent system)
- Quantity of Effluent generated from **11762** [11551 (As per Dossier: As on 2020) + 211 (As per online consent system)] units = **112.105** MLD (107.08 MLD + **5.025** 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)

- 9 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- 7.1, TSS – 3.0 mg/l, TDS - 702 mg/l, BOD – 2.4 mg/l, COD - 40 mg/l, O & G - BDL, Ammoniacal Nitrogen – 8.3 mg/l, Nitrate Nitrogen – 13.3 mg/l, Total Kjeldahal Nitrogen-30.1 mg/l, Phosphates-0.0321 mg/l, Chlorides-324 mg/l, Sulphates-1.2278 mg/l, Flouride- 0.8 mg/l, Total Residual Chlorine - 2 mg/l, Phenolic Compounds - BDL, Sulphides-BDL, Cyanide-BDL as per analysis report dated 22.12.2025.
CETP,KINFRA,Elamannoor, Pathanamthitta	0.22 MLD	30 Cubic metre per day	Operational	4	4	pH - 6.5 to 8.5, TSS - 100, BOD - 30, O&G - 10,COD- 250 as per analysis report dated 12.01.2026
KSIDC Mega Food Park, Pallipuram, Cherthala, Alappuzha	2 MLD	0.5 MLD	Operational	6		pH-7.7 mg/L, BOD-30.24 mg/L, SS-21.2 mg/L O&G- BDL , as per analysis report dated 24.12.2025
Sea Food Park (India) Ltd., Aroor, Alappuzha	0.3 MLD	0.3 MLD	Operational	10		pH-7.5 mg/L, BOD-11.62 mg/L, SS-5 mg/L, O&G- BDL , as per analysis report dated 31.12.2025
Kinfra Small Industries Park Nellad, Mazhuvanoor	0.4 MLD	0.4 MLD	Operational	15		pH- 7.09, ¹ 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		<ul style="list-style-type: none"> pH-7.23, TSS-BDL , TDS – 360 mg/l, Chloride – 6.9 mg/l, Residual Chlorine – BDL, phosphate-

						BDL, sulphide- BDL, ammonical nitrogen – 0.078 mg/L, BOD- BDL , COD-4 mg/l, Sulphate – 6.8 mg/l, Oil & grease – BDL, Copper- BDL, cadmium – BDL, Nitrite as Nitrogen – BDL, Nitrates as Nitrogen – 2.334 mg/l, Total Kjeldahl Nitrogen – 1.232 mg/l, Iron – BDL, Manganese – BDL, Nickel – BDL, Lead – BDL, Zinc – BDL analysis report dated 20.06.2025
KinfraTechno Industrial Park, Kakkanchery Chelambara P.O, Malappuram	0.675 MLD	0.675 MLD	Operational	17	17	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 – 8.91, BOD – 303.5 mg/l, COD – 736 mg/l, Oil & Grease – 10.72 mg/l, TSS – 104 mg/l as per analysis report dated 13.08.2025

CETP- Proposed						
CETP, Industrial department, Aroor	1.5 MLD	Proposed	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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 ML D	Effluent Quantity in ML D	Mode of disposal	ETP Units	Date of monitoring	Limiting Standard	Latest Analysis report	
PATHANAMTHITTA										
1	18M Car Care, Mallapally East(PO),PTA	Car Wash	0.0018	0.0018	Re-use for car washing	ETP	24.09.2025	pH - 6.5 to 8.5, TSS <100, BOD<30, COD-250, O&G - 10	pH - 7.1, TSS - 25.1, BOD-11, COD-32, O&G - 2.4	Parameters are within the limit
IDUKKI										
2	Kattappana Dairy, E.R.C.M. P.U.Ltd, Kattappana, Idukki	Milk Processing Unit	0.25	0.2	Soak Pit	Screen chamber, Oil and Grease trap, balancing tank, aeration tank I&II, settling tank I&II, filtration, sludge drying bed and treated water tank	22.10.2025		pH=7.8, BOD=9.6, S.S=4.7, Oil & Grease=BDL	Parameters are within the limit
ERNAKULAM										
3	Fact Ltd., Udyogamandal Division, Eloor, Udyogamandal	Chemical Fertilizer	48	17	Periyar-downstream of Pathalam bund	Flash mixer, Clariflocculatro, spray pond, pH neutralizer, guard pond	03.05.2025	pH - 6.5 - 8.0, nitrates - 10mg/l, free ammonia - 4 mg/l, TKN - 150mg/l, oil and grease - 10mg/l, phosphate - 5mg/l,	pH - 6.80, nitrates - 66, free ammonia -2.72, TKN - 115.36, oil and grease - 5.44, phosphate -.05, ammoni	

								ammoniacal nitrogen - 75mg/l, hexachromium - 0.1mg/l, SS - 100mg/l, fluoride - 1.5mg/l, arsenic - 0.2mg/l, vanadium - 0.2mg/l, total chromium - 2mg/l	acal nitrogen - 112.56, hexachromium - BDL, SS - 21.2, fluoride - 0.068, arsenic BDL, vanadium - BDL, total chromium - BDL	
4	Fact Ltd., Petrochemical Division, Eloor, Udyogamandal	Petrochemical Unit	13.97	5.04	Periyar-downstream of Pathalam bund	Neutralisation, Equalisation, Biopond, Guard pond, Final clarifier, Denitrification reactor	29.04.2025	pH - 6.5 - 8.0, nitrates - 20mg/l, free ammonia - 5 mg/l, TKN - 100mg/l, oil and grease - 10mg/l, phenolic compounds - 1mg/l, ammoniacal 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 compounds - NA, ammoniacal nitrogen - NA, SS-56, BOD - 12mg/l, COD - 80mg/l	
PALAKKAD										
5	United Breweries Limited	Fermentation Industry	0.945	0.756	Reuse & excess to river	Collection tank, high rate anaerobic reactor, coagulation tank, primary settling	28/10/2025		pH-7.38 TSS - 15 BOD - 2.4 COD - 55 OIL AND GREASE - BDL	

						tank, aeration tank, secondary settling tank, pressure sand filter, activated carbon filter, reverse osmosis, evaporator.			
6	IMAGE (INDIAN MEDICAL ASSOCIATION GOES ECO FRIENDLY)	Common biomedical treatment facility	0.48	0.13	Reuse	Coagulation tank, primary settling tank, aeration tank, secondary settling tank, pressure sand filter, activated carbon filter, chlorination tank, ultra filtration	28/10/2025		pH - 9.25 BOD - 840 TSS - 12 OIL & GREASE - 7.3
MALAPPURAM									
7	Ecogreen rendering plant, cherur (po), manhen gara	Chicken waste fertilizer	0.001	0.001	soakpit		01.09.2025	PH-6.5-8.5, BOD-30, TOTAL SUSPENDED SOLIDS-100, OIL AND GREASE -10	PH- 7.8, BOD-6.4, COD-16, TOTAL SUSPENDED SOLIDS -24, OIL AND GREASE-BDL
8	Beton proteins,	Chicken waste	0.02	0.02		screen chamber, oil and	24.09.2025	PH-6.5-8.5, BOD-30, TOTAL	PH-6.9, BOD-11,

	pallippadam, mampad	fertilizer				grease, trap collection tank, aeration tank, settling tank, filter feed tank, pressure sand filter, chlorination, activated carbon filter			L SUSPENDED SOLIDS-100, OIL AND GREASE-10	COD-40, TOTAL SUSPENDED SOLIDS-80, OIL AND GREASE-BDL	
WAYANAD											
9	Milma Dairy MRCM PU Ltd Wayanad		0.3	0.202	Well	Irrigation, Soak pit		5/8/2025		PH-7.12, BOD-97.8, TOTAL SUSPENDED SOLIDS-137.6, OIL AND GREASE-74.8	BOD, TSS, OIL AND GREASE VALUE PER MIS- SIBLE LIMIT EXCEEDED
KANNUR											
10	Mathrubhumi Printing & Publishing Co.Ltd., Nadal, Bypass Road, Edakka d.P.O., Kannur Dt - 670663	Printing press	0.006	0.00524	Gardening / Soak pit			07/08/2025		PH-6.46, TS-14, BOD-9, COD-24, OIL AND GREASE-2.04	
11	Shabari Cottons Pvt Ltd, Nad	Textile dyeing	0.113	0.1074	Soak pit	ETP Units		31/07/2025		PH-9, TSS-117, BOD-	

	ukani,P allvayal (P.O),T halipara mbu								343.5,C OD- 832,OIL AND GREAS E-8.04	
KASARGODE										
12	Vpk Motors	Service Station	0.00 575	0.00 5	Soak Pit	ETP	13.11.202 5	PH-6.5- 8.5,BOD- 30,TOTA L SUSPEN DED SOLIDS- 100,OIL AND GREASE -10 ,COD- 250	PH- 6.8,BO D- 9,TOTA L SUSPE NDED SOLIDS -45,OIL AND GREAS E-1.1 ,COD- 24	Conf ormi ng to Stan dards
13	Oxygen promax	Rende ring plant	0.00 89	0.00 72	Cooling tower, boiler feed and soak pit	ETP	22.10.202 5	PH-6.5- 8.5,BOD- 10,TOTA L SUSPEN DED SOLIDS- 100,OIL AND GREASE -10	PH- 7.1,BO D- 7.2,CO D- 24,TOT AL SUSPE NDED SOLIDS -72,OIL AND GREAS E-7.4	Conf ormi ng stand ards

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, 7398.66 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 TPD)	Total Rendering Capacity (TPD)	Total BDW Processing Capacity (TPD)
01 Thiruvananthapuram	774.83	750.68	90.87	0.00	841.55
02 Kollam	567.14	347.93	67.28	80.00	495.21
03 Pathanamthitta	224.92	159.62	27.97	15.00	202.59
04 Alappuzha	424.15	410.21	62.08	0.00	472.29
05 Kottayam	393.31	325.35	31.12	0.00	356.47
06 Idukki	208.38	260.04	17.86	0.00	277.90
07 Ernakulam	779.34	571.42	72.48	190.00	833.90
08 Thrissur	691.90	530.48	92.47	105	727.95
09 Palakkad	601.79	424.06	99.66	95	618.72
10 Malappuram	968.70	534.50	126.00	250	910.5
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	70	288.4
Grand Total	7398.66	5909.49	851.76	901	7662.25

For managing the 7398.66 TPD of biodegradable waste generated, there is a facility of 7662.25 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.

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 October 2024	Up to July 2025
RRF	167 Nos	167 Nos
MCF	1272 Nos	1272 Nos
Mini MCF	19156 Nos	19808 Nos
Godown facility (Pvt+CKCL)	67 Nos 447.37 TPD	130 Nos 1289.24 TPD
Containers for temporary storage	198 No.s	198 No.s
Total Capacity	2797.83TPD	2975.72 TPD

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	33.72	5.07	166.47

02 Kollam	166.3	124.43	34.48	23.94	182.85
03 Pathanamthitta	63.41	61.87	6.88	3.62	72.37
04 Alappuzha	121.05	137.13	85.09	11.62	233.84
05 Kottayam	111.78	108.09	71.58	18.31	197.98
06 Idukki	57.58	58.77	4.65	6.04	148.44
07 Ernakulam	239.46	151.45	140.8	60.97	353.22
08 Thrissur	203.75	212.45	13.01	39.08	264.54
09 Palakkad	169.08	132.62	100.37	49.26	282.25
10 Malappuram	278.08	166.42	59.76	130.39	356.57
11 Kozhikode	226.63	127.07	24.81	85.32	237.20
12 Wayanad	48.43	29.1	8.9	54.28	92.28
13 Kannur	168.45	164.94	87.53	17.81	270.28
14 Kasaragod	80.06	84.46	93.38	18.59	196.43
Grand Total	2173.73	1686.48	764.96	524.30	2975.74
Kerala Enviro Infrastructure Ltd (KEIL)					16
Grand Total (TPD)					2991.74

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.

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.

Table 4. Details of processed quantity of biomining sites

Stage of Biomining	Number of Sites	Quantity of waste (in MT)		
		Total	Processed waste	Unprocessed waste
Completed Sites	24	358278.55	358278.55	0
Ongoing	19	1359359.72	962389.14	396970.58
To be started	16	173719.29	0	173719.29
Grand Total	59	1891357.56	1320667.69	570689.87

Remediation Completed Sites

	Name of Districts	Name of Local Body	Legacy waste site (district wise)	Quantity of processed 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	1041.1
12	Malappuram	Malappuram ulb	Puliyettummal, Near Inkel city, Malappuram	5079.04
13	Malappuram	Tirur ulb	Trenching ground, Ottilathara	3079.2
14	Malappuram	Perinthalmanna Municipality	Perinthalmanna, Kunnappalli	200
15	Malappuram	Manjeri Municipality	Vettekkode, Manjeri	13902.11
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
20	Palakkad	Alathur Grama Panchayath	Alathur	1824
21	Palakkad	Vadakkanchery Grama Panchayath	Vadakkanchery	1520
22	Palakkad	Nemmara Grama Panchayath	Nenmmara	3641.1
23	Kottayam	Mundakkayam Grama Panchayath	Mundakkayam	4000
24	Kottayam	Erumeli Grama Panchayath	Erumeli	1500
		Total		358278.55

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	Quantity of unprocessed waste (in MT)
1	Thiruvananthapuram	Attingal Municipality	Attingal, Chudukad	11365	3565
2	Kottayam	kottayam municipality	Vadavathoor, Kottayam	80943.2	67992.39

3	Ernakulam	Kothamangalam Municipality	Kumbalathumuri, Kothamangalam	19146	19146
4	Idukki	Thodupuzha Municipality	Parakadavu, Thodupuzha	28000	11200
5	Ernakulam	Kochi Corporation	Brahmapuram, Kochi	843000	110535
6	Thrissur	Chavakkad Municipality	Chavakkad	5000	1400
7	Thrissur	Wadakkanchery Municipality	Kumbalangad	21063	10425.2
8	Palakkad	ottapalam municipality	Panamanna, Ottappalam	37600	9500
9	Kannur	Kannur Corporation	Chelora	43727.32	10853.32
10	Kannur	Mattannur Municipality	Mattannur, Karithurparamba	15680	5352
11	Kottayam	Changanaserry Municipality	Fathimapuram, Changanaserry	7300	3650
12	Ernakulam	Muvattupuzha Municipality	Kurianmala, Muvattupuzha	44589	38346.54
13	Thrissur	Irinjalakuda Municipality	Irinjalakkuda, Mangadikunnu	14000	9800
14	Palakkad	Palakkad Municipality	Koottupatha, Kodumba	73827	20671.56
15	Kannur	Thalaserry Municipality	Thalaserry, Punnoolpetty	45430.4	27258.24
16	Thiruvananthapuram	Thiruvananthapuram Corporation	Vizhinjam	3177.1	2859.39
17	Ernakulam	North Paravoor Municipality	Vedimara, North Paravoor	18666	18666
18	Thrissur	Wadakkanchery Municipality	Wadakkanchery, Kumblangad	16152	2422.8
19	Kozhikode	Vadakara Municipality	Puthiyappu, Vadakara	30693.6	23327.136
		Total		1359359.72	396970.576

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	Sarvodhayapuram	57200

3	Kottayam	Erattupetta Municipality	Erattupettah, Thevarrupara	8000
4	Idukki	Kattappana Municipality	Kattappana, Puliyanmala	12000
5	Wayanad	Kalpetta Municipality	Vellaramkunnu, Kalpetta	9485.37
6	Kannur	Iritty Municipality	Iritty, Athithattu	1618.49
7	Kannur	Payyannur Municipality	Payyannur, Moorikkovval	2100
8	Kannur	Kuthuparamba Municipality	Palapparamba, Kuthuparambu	12081.6
9	Kasaragod	Kasaragod Municipality	Kelugudde, Kasaragod	12873.6
10	Kasaragod	Kanhangad Municipality	Kanjhangad, Trenching Ground Chemmattamvayal	3481.69
11	Kollam	Kottarakkara Municipality	Ugrankunnu, Kottarakkara	6596
12	Alappuzha	Mavelikkara Municipality	Puthiyakavu, Mavelikkara	2880
13	Idukki	Munnar Grama Panchayath	Munnar	18163
14	Ernakulam	Koothattukulam Municipality	Town-Ward Koothattukulam	15, 1346
15	Thrissur	Chalakkudy Municipality	Near Cosmos Club, Chalakkudy	6769
16	Kasaragod	Mangalpady Grama Panchayath	Kubanoor	12557.80
		Total		173719.29

- 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.

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)
Kollam	2	80

Pathanamthitta	1	15
Ernakulam	6	190
Thrissur	4	105
Palakkad	6	95
Malappuram	16	250
Kozhikode	1	30
Wayanad	1	12
Kannur	2	54
Kasargod	2	70
	41	901

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

Sl No.	Plant Location	Status of operation	Power generation
1	Palakkad Kanjikode	At Palakkad Municipality, around 50% of the construction work for the 110 TPD CBG plant has been completed.	110 TPD
2	Malappuram	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 & ROOHFWR	
3	Ernakulam Brahmapuram	Construction of CBG Plant ongoing	150TPD
4	Kannur Chelora	Work of plant can be started only after the work of Biomining is carried out. WIE plant is proposed in 9.7 acres of land after clearing the legacy waste. Tendering completed and 65 DPR prepared by Blue planet. Consent application is yet to be received. For biomining, volume of legacy waste - 1,22,844 m ³ (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 has already started. Agreement to be executed Bio-mining is already started (6500) cum is biomined (50%)	
5	Thrissur Corporation	Proposal for CBG plant in the district is at various stages of planning.	30 TPD
6	Thiruvananthapuram Corporation	Proposal for CBG plant in the district is at various stages of planning.	150 TPD
7	Kollam Corporation	Proposal for CBG plant in the district is at various stages of planning.	150 TPD
8	Kozhikode Corporation	Proposal for CBG plant in the district is at various stages of planning.	180 TPD
9	Changanassery Municipality	Proposals for CBG plant in the district is at various stages of planning.	20 TPD

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.

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.

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 Management 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 2024-25:

- Total Bio-medical generation: 96773.817 kg/day
- No. of Hospitals and Health Care Facilities: 29465
- Total Bio-Medical waste treated : 96773.817 kg/day

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: 68683.7 TPA (as per annual report in the whole state for the year 2024-25).
- Material Collection Facility – 1233 nos.; Resource Recovery Facility-136 nos.
- Processing including recycling- 66402.5 TPA
- Gap between current status and desirable level : 2281.2 TPA

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
- 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.
- 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.



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.

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, 17.12.2024, 05.03.2025, 29.08.2025

- 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, 16.11.2024, 13.06.2025

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

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

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 65Lakhs 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 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.

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 un 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 IDR B 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 IDR. The methodology in this regard is under review. The methodology was presented in the 4th meeting of the Expert committee 06.06.2024

XXII. Reuse of Treated Water:

Draft policy on treated waste water reuse is under preparation by Suchitwa Mission

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 regarding 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 coliform. 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. The Coastal Action Plan is being revised with projected population for the year 2024.

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 coloured Kumkum 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 PriorityIV)

- As per the report of CPCB on “Polluted River Stretches for Restoration of Water Quality, 2025”, a total of 32 polluted river stretches/locations (polluted River stretches (14 nos)/ locations (18 nos)) have been identified in the State of Kerala. (Priority III - 2 river stretches/ locations; Priority IV - 4 river stretches/ location & Priority V - 26 river stretches/ locations)



MEMBER SECRETARY