

**Progress achieved in implementing projects
along Polluted River Stretches from 2018
onwards in Kerala**

As on 10-5-2023

Sl No	River stretch	Progress from 2018 onwards
1	<p>Karamana River - Melekkadavu to Thiruvallam</p> <p>Priority 1 in 2018 & Priority 3 in 2022</p>	<p>Thiruvananthapuram Corporation</p> <ul style="list-style-type: none"> •5 MLD Common sewage treatment Plant at Medical College •Treatment in CSTP at Muttathara increased from 45 MLD to 80MLD •Co-treatment of septage started in CSTP Muttathara with tracking mechanism and registration of tankers. •Pumping lines from the 4 terminal pumping Stations pumping stations are connected to common STP at Muttathara. •Rehabilitation/upgradation of Thaliyal and Aranoor Sewerage Pump house completed. •Rehabilitation works at various place completed •DPR completed for 4 clusters for the uncovered areas •Extension of sewer network is progressing •Illegal outlets closed <p>• 25346 inspections conducted and Rs 892720 imposed against single use plastic use and Rs 2201008 imposed for illegal dumping in public waterbodies in current financial year.</p> <ul style="list-style-type: none"> •Chicken waste from Thiruvananthapuram Corporation is collected and taken to rendering plant •65% Door to door Collection by authorised collectors namely Harithakarmasena •57 MCFs and 3 RRFs •18 authorised agencies for collecting 60 -75 Ton of biodegradable waste from bulk producer and about 10 ton Non biodegradable waste <ul style="list-style-type: none"> •Check dam and Bio diversity Park constructed •Desilting of drains

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2	Bharathapuzha- Along Patambi Priority IV in 2018 & exempted in 2022	<p>Pattambi Municipality</p> <ul style="list-style-type: none"> •All Illegal outlets of commercial establishment closed by Municipality •Desilting of drains done <ul style="list-style-type: none"> •.Proper waste management in Pattambi Municipality • 1MCF, 1 RRF and composting plant of 6 Ton /day is in operation. •82% Door to door collection of non biodegradable waste by authorised collectors. <ul style="list-style-type: none"> •159 inspections conducted and Rs 37500 imposed against single use plastic use and Rs 65000 imposed for illegal dumping in public waterbodies in current financial year. <ul style="list-style-type: none"> •Action for providing of STP and modern Slaughter house initiated.
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SlNo	River stretch	Progress from 2018 onwards
3	Kadambrayar- Manckakadavu to Brahmapuram Priority IV in 2018 & exempted in 2022	<p data-bbox="850 214 1371 264"><u>Thrikkakkara Municipality</u></p> <ul data-bbox="850 328 1860 1175" style="list-style-type: none"><li data-bbox="850 328 1860 606">•Desilting of removal of water hyacinth<li data-bbox="850 385 1860 606">•149 inspections conducted and Rs 52000 imposed against single use plastic use and Rs 59000 imposed for illegal dumping in public waterbodies in current financial year. <li data-bbox="850 671 1860 721">•Rectified the defects of STPs in apartments<li data-bbox="850 728 1860 778">•Illegal outlets closed <li data-bbox="850 842 1860 949">•80% Door to door collection of non biodegradable waste by authorised collectors<li data-bbox="850 956 1860 1006">•1 MCF in operation <li data-bbox="850 1071 1860 1175">•CCTV in Puthencruz and Kunnathunadu panchayat

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4	Kecheri - Puliyanor to Kechery in Priority IV in 2018 & exempted in 2022	<p><u>Wadakkanchery municipality</u></p> <ul style="list-style-type: none"> •185 inspections conducted and Rs 1,27,720/- imposed for illegal dumping in public waterbodies in current financial year. •Illegal outlets closed and CCTV provided •100% door to door collection by authorised collectors •MCF & RRF provided and biogas plant renovated. •Windrow composting plant started functioning •Trial run of Windrow composting done •Desilting and deepening of river completed.

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5	<p>Manimala-Kalloopara to Thondra in Priority IV in 2018 & Priority V in 2022</p>	<p><u>Thiruvalla Municipality</u></p> <ul style="list-style-type: none"> •168 inspections conducted and Rs 12500 imposed against single use plastic use and Rs 65000 imposed for illegal dumping in public waterbodies in current financial year •80.6% Door to door collection of non biodegradable waste by authorised collectors •Establishment of decentralized solid waste treatment facilities in Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoor panchayaths

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6	Pamba-Mannar to Thakazhy in Priority IV in 2018 & Priority V in 2022	<u>Mannar Panchayat</u> <ul style="list-style-type: none">•Illegal outlets closed•Establishment of MCF and RRF•Community level solid waste management units•Door to Door Collection by authorised collectors•Soakpit provided for households

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7	Bhavani-Along Elachivazhy in Priority V in 2018 & Exempted in 2022	<u>Pudur Panchayat</u> <ul style="list-style-type: none">•Community toilets constructed in tribal colony•Check dam constructed for maintaining flow•Provided mini MCF facility in wards in colonies.•Riverside protection works completed.

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8	Chitrapuzha-Irumpanam to Karingachira in Priority V in 2018 & Priority V in 2022	<p><u>Thripunnithura municipality</u></p> <ul style="list-style-type: none"> •New CETP started operational in CSEZ •Desilting work and water hycinth removal completed and thereby maintaining flow. •Rectifying work done for STPs •Illegal outlets closed •CCTV installed •188 inspections conducted and Rs 68000 imposed against single use plastic use and Rs 5,04,000 imposed for illegal dumping in public waterbodies in current financial year. •85.5% Door to door collection of non biodegradable waste by authorised collectors •5 mini MCFs in operation and one functional MCF and two decentralised Thumboor muzhi <p>Kunathunadu Gramapanchayat</p> <ul style="list-style-type: none"> •Ward monitoring committee under the supervision of Kunathunadu Gramapanchayat which ensures the prevention of polluting activities by the local people. •Proper solid waste management

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9	Kadalundi-Along Hajirappally/ Hajiyarpalli in Priority V in 2018 & Priority V in 2022	<p data-bbox="879 314 1400 364"><u>Malappuram municipality</u></p> <ul data-bbox="879 428 1709 1213" style="list-style-type: none"><li data-bbox="879 428 1294 478">•Illegal outlets closed<li data-bbox="879 485 1680 649">•88 inspections conducted and Rs 3500/- imposed against single use plastic use in current financial year.<li data-bbox="879 656 1642 763">•CCTV camera installed in Malappuram municipality <li data-bbox="879 828 1680 935">•Non biodegradable waste MCF & Plastic shredding and Bailing completed<li data-bbox="879 942 1622 992">•Installation of Echo Kiosk progressing <li data-bbox="879 1056 1709 1213">•Sanitation facility and treatment of waste water in the market - Treatment plant completed

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10	<p>Kallai- Thekepuram to Arakkinar in Priority V in 2018 & Priority V in 2022</p>	<p><u>Kozhikkode Corporation</u></p> <ul style="list-style-type: none"> • 1MLD STP in Medical college completed. •2 MLD network line is almost completed for medical college •1201 inspections conducted and Rs 10,50,980 imposed against single use plastic use and Rs 21,70,570 imposed for illegal dumping in public waterbodies in current financial year. •92% door to door collection by authorised collectors •24 Aerobic compost units established in 6 sites •Biomining is in progress at the dumpsite •Cleaning of B.K canal completed •Cleaning of drains in Kozhikode Town completed <ul style="list-style-type: none"> •MRF, MCF, RRF and Bio gas Plant facility are provided in Mavoor ,Perumanna ,Peruvayal &Olavanna Panchayat •Cleaning of Mampuzha river completed.

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11	<p>Karuvannoor-Along Karuvannur in Priority V in 2018 & exempted in 2022</p>	<p><u>Irinjalakkuda Municipality</u></p> <ul style="list-style-type: none"> •Sanitation survey completed & unauthorised outlets closed. •Windrow composting plant started commissioning for Irinjalakuda •95 inspections conducted and Rs 60,500/- imposed against single use plastic use and Rs 8,500/- imposed for illegal dumping in public waterbodies in current financial year. •DPR completed for STP at General hospital in Irinjalakkuda •Strict Surveillance in Vallachira, Pudukkad, Nenmanikkara Panchayat •Sewage treatment facilities to all houses in Vallachira Panchayat •Cleaning and desilting of canal completed in Vallachira Panchayat •Site protection with bamboo plants deepening and protecting thodu by geotextiles.

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12	Kavvai-Along Kavvai Priority V in 2018 & Exempted in 2022	<u>Payyanur Municipality</u> <ul style="list-style-type: none">•72 inspections conducted and Rs 2,00,000 imposed against single use plastic use and Rs 2,47,000 imposed for illegal dumping in public waterbodies in current financial year•100% door to door collection by authorised collectors•44 Mini MCFs , one functional MCF, one functional RRF•One centralised waste management plant .
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13	Kuppam-Thaliparamba to velichangool-Priority V in 2018 & Exempted in 2022	<u>Thaliparamba Municipality</u> <ul style="list-style-type: none">•19 inspections conducted and Rs 30,000 imposed against single use plastic use and Rs 3500 imposed for illegal dumping in public waterbodies in current financial year•99% Door to door collection of non biodegradable waste by authorised collectors

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14	Kuttiyadi -Along Kuttiyadi-Priority V in 2018 & Exempted in 2022	Kuttiyadi grama panchayath <ul style="list-style-type: none">•MCF and MRF biogas plant provided.•Geotextiles are provided at riverbed.•Renovation of various canal

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15	Mogral-Along Mogral- Priority V in 2018 & Exempted in 2022	<p><u>Mogral –Puthur Panchayat</u></p> <ul style="list-style-type: none"> • Bamboo Planting- aiming water conservation and raising water levels thus preventing solid erosion, waste dumping in public places •MCF and Plastic shredding units provided. •Cleaning of river and drains completed. <p><u>Madhur Panchayat</u> MRF,Plastic shredding machine completed</p>

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16	Periyar- Alwaye- Eloor to kalamasser y Priority V in 2018 & Priority V in 2022	<p><u>Kalamassery Municipality</u></p> <ul style="list-style-type: none"> •65 inspections conducted and Rs 24000 imposed against single use plastic use and Rs 244910 imposed for illegal dumping in public waterbodies in current financial year in Kalamassery Municipality •Construction of retaining wall with HDPE liner at Kalamassery to prevent entry of Leachate into thodu. •Action initiated for Common STP at Kalamassery Municipality. •Plastic shredding unit is installed by Kalamassery municipality
		<p><u>Aluva Municipality</u></p> <ul style="list-style-type: none"> •14 inspections conducted and Rs 30000 imposed against single use plastic use and Rs 26000 imposed for illegal dumping in public waterbodies in current financial year in Aluva Municipality.
		<p><u>Eloor Municipality</u></p> <ul style="list-style-type: none"> •Proper solid mangement in Eloor Municipality. 16 inspections conducted and Rs 10000 imposed against single use plastic use and Rs 65740 imposed for illegal dumping in public waterbodies in current financial year. •Discharge of sewage from hotels are stopped. •CCTV Camera installed •Cleaning of river tributary is in progress.

Sl No River stretch

Progress from 2018 onwards

17 Peruvamba-Along
Peruvamba-Priority V in
2018 & Exempted in 2022

Kunjimanagalam Grama panchayath

•Desilting works executed at various places.

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18	Puzhakkal-Olarikkara to Puzhakkal -Priority V in 2018 & Exempted in 2022	<p data-bbox="676 285 1835 357"><u>Thrissur Corporation</u></p> <ul data-bbox="676 357 1835 1158" style="list-style-type: none"> <li data-bbox="676 357 1835 428">•Illegal outlets closed <li data-bbox="676 428 1835 571">•Desilting, cleaning of main drains in canals in Thrissur Corporation completed <li data-bbox="676 571 1835 642">•Side wall protection constructed <li data-bbox="676 642 1835 928">•625 inspections conducted and Rs 30,210 imposed against single use plastic use and Rs 4,97,300 imposed for illegal dumping in public waterbodies in current financial year <li data-bbox="676 928 1835 1158">•DPR of 100KLD FSTP and 360KLD STP at District Hospital completed

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19	Ramapuram-Along Ramapuram-Priority V in 2018 & Exempted in 2022	Madayi panchaayth and Cheruthazham panchaayth <ul style="list-style-type: none">•Regulating activities in flood zone and protection and mangement of floodplain zone•Bund road constructed with side protection•Desilting work executed on upstream and downstream for maintaining e flow

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20	Tirur- Naduvilang adi to Thalakkadat hur Priority V in 2018 &Priority V in 2022	<u>Tirur Municipality</u> <ul style="list-style-type: none">•Solid waste Treatment Plant Thumboor Muzhi Model Aerobic Bin functioning•MRF,MCF , Plastic Shredding Unit segregation shed works completed and functioning•Installation of CCTV cameras completed.•87% door to door collection by authorised collectors •Setting up of a new drain after demolishing the old one in Tirur Miunicipality •54 inspections conducted and Rs 50500 imposed against single use plastic use and Rs 6500 imposed for illegal dumping in public waterbodies in current financial year.
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21	Uppala-Poyya to Mulinja-Priority V in 2018 & Priority V in 2022	<u>Mangalpady Panchayat</u> <ul style="list-style-type: none">•CCTV Cameras provided•Rented vehicles provided for collection of waste <u>Manjeswaram Panchayat</u> <ul style="list-style-type: none">•Electrification of MCF completed•Transportation of collected waste regularly being done.•Continuous vigil on waste dumping on roads•Water quality monitoring being done regularly

Sl.No.		2020	2021	2022	2023
1.	Existing STP				STP & FSTP
	No	1930	1930	2162	2162
	Capacity MLD	193.145	198.476	203.88	203.88
2.	STP Under Construction				
	No	10	10	13	17
	Capacity MLD	22.475	21.29	41.414	42.534
3.	STPs Under tendering				
	No	16	16	9	15
	Capacity MLD	59.586	52.08	35.41	36.72

Sl.No.		2020	2021	2022	2023
4.	Sanctioned Project				
	No	5	4	4	3
	Capacity MLD	2.575	0.108	3.28	2.69
5.	STPs in DPR Stage				
	No	28	36	29	30
	Capacity MLD	1.836	4.6189	40.218	40.248
6	STPs in Proposed Stage				
	No	7	7	2	2
	Capacity MLD	1.1499	3.2435	1.35	1.35
			Under Construction Total	57 Nos. 121.672 MLD	64 Nos 123.542 MLD

Thank you

<i>Sl. No.</i>		<i>2020</i>	<i>2021</i>	<i>2022</i>	<i>2023</i>
1.	<i>Existing STP</i>				<i>STP & FSTP</i>
	<i>No</i>	<i>1930</i>	<i>1930</i>	<i>2162</i>	<i>2162</i>
	<i>Capacity MLD</i>	<i>193.145</i>	<i>198.476</i>	<i>203.88</i>	<i>203.88</i>
2.	<i>STP Under Construction</i>				
	<i>No</i>	<i>10</i>	<i>10</i>	<i>13</i>	<i>17</i>
	<i>Capacity MLD</i>	<i>22.475</i>	<i>21.29</i>	<i>41.414</i>	<i>42.534</i>
3.	<i>STPs Under tendering</i>				
	<i>No</i>	<i>16</i>	<i>16</i>	<i>9</i>	<i>15</i>
	<i>Capacity MLD</i>	<i>59.586</i>	<i>52.08</i>	<i>35.41</i>	<i>36.72</i>
4.	<i>Sanctioned Project</i>				
	<i>No</i>	<i>5</i>	<i>4</i>	<i>4</i>	<i>3</i>
	<i>Capacity MLD</i>	<i>2.575</i>	<i>0.108</i>	<i>3.28</i>	<i>2.69</i>
5.	<i>STPs in DPR Stage</i>				
	<i>No</i>	<i>28</i>	<i>36</i>	<i>29</i>	<i>30</i>
	<i>Capacity MLD</i>	<i>1.836</i>	<i>4.6189</i>	<i>40.218</i>	<i>40.248</i>
6	<i>STPs in Proposed Stage</i>				
	<i>No</i>	<i>7</i>	<i>7</i>	<i>2</i>	<i>2</i>
	<i>Capacity MLD</i>	<i>1.1499</i>	<i>3.2435</i>	<i>1.35</i>	<i>1.35</i>
<i>Under Construction Total</i>				<i>57 Nos.</i>	<i>64 Nos</i>
				<i>121.672</i>	<i>123.542 MLD</i>
				<i>MLD</i>	