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

ACTION PLAN FOR RIVER KARAMANA, KERALA - October 2022

1. Short term plan

Maintenance and de-bottlenecking of existing Sewerage Network

No.	Activity	Implementing agency	Time line	in the month of August-	Progress in the month of September- 2022	ot	Details of works remaining
2.1.1		Kerala Water Authority	May 2019				100% work of Kuriathy completed. Pumping main of Pattoor, Kannammoola and Enchakkal included in Long term works.



						100%	a. Completed
2.1.2	Rehabilitation/upgradation of Thaliyal and Aranoor Sewerage Pump house by rehabilitation of Kerala W existing well, construction Authority of new well and grit chamber, installation of new Pump sets	May 2020	Arannoor	0%	0%	80%	 b. a) Providing RCC lining for the existing two wells. Lining for first well completed. 2 Pump sets erected in first well and commissioned. Pumping main also completed. Lining for 2nd well partly completed. b)Diesel generator – to be supplied by contractor. The Work terminated at the risk and cost of the contractor. TS issued for recasted estimate and tendered. One offer received on retender. Work order issued. Probable date



						of completion 28.02.2023
2.1.3	5 MLD sewage treatment plant at Medical College	Kerala Water Authority	May 2020		100%	Work Completed on 8.8.21.
2.1.4	Installation of adequate pumps in Mudavanmughal and Enchakkal pumping stations.	Kerala Water Authority	March 2020		100%	100% completed.
	· · ·	Kerala Water Authority	May 2020		100%	DG sets installation of seven pumping stations completed. Approval from Electrical inspectorate received. Work completed. Trial run also completed. For Arannoor and Thaliyal. Erection of diesel generator is already included in the item mentioned 2.1.2. For Enchakkal already exists.
216	Reconnect sewer at Rajaji Nagar, stop outflow of sewage into Amayizhanchanthodu, control storm water entry into sewer to avoid overflow in Thampanoor	Kerala Water	Dec 2020		100%	Work completed



Authority area. Sewage generated in Rajaji Nagar shall be diverted to main sewer line. Sewage generated in Thoppil area shall be diverted main sewer line. Discharge of sewage in Parayilkadavu shall be stopped as there is overflow of sewage 2.1.7 reaches in houses having sewerage connection and this may lead to discharge of sewage into River	:019- ewer
in Rajaji Nagar shall be diverted to main sewer line. Sewage generated in Thoppil area shall be diverted main sewer line. ine. Discharge of sewage in Parayilkadavu shall be stopped as there is overflow of sewage sewerage connection and this may lead to discharge Rehabilitation 2.1.7 reaches in houses having sewerage connection and this may lead to discharge Completed	uded 019- ewer
diverted to main sewer diverted to main sewer line. Sewage generated in Thoppil area shall be diverted main sewer line. Discharge of sewage in Parayilkadavu shall be stopped as there is overflow of sewage Kerala Water Authority Completed 100 % completed '20. Rehabilitation of sething in the work State Plant '20. Rehabilitation of sething Karamana BHS and Karamana BHS and	uded 019- ewer
Thoppil area shall be diverted main sewer line. Image: Completed main sewer line. Image: Completed main sewer line. Discharge of sewage in Parayilkadavu shall be stopped as there is overflow of sewage reaches in houses having sewerage connection and this may lead to discharge Kerala Water Authority Image: Completed main sewer line. Imag	uded 019- ewer
diverted main sewer line. Image:	uded 019- ewer
Discharge of sewage in Parayilkadavu shall be stopped as there is overflow of sewage reaches in houses having sewerage connection and this may lead to dischargeDischarge of sewage in Parayilkadavu shall be kerala Water AuthorityRehabilitation work existing pipe line is inclusion in the work State Plant 100 % completed2.1.7Rehabilitation and this may lead to dischargeRehabilitation of sewage AuthorityRehabilitation of sewage in the work State Plant authority	uded 019- ewer
2.1.7 Parayilkadavu shall be stopped as there is overflow of sewage reaches in houses having this may lead to discharge connection and this may lead to discharge connection and the marked of the mar	uded 019- ewer
2.1.7 stopped as there is overflow of sewage connection and this may lead to discharge with the maximum discharge connection and the maximum discharge connecti	uded 019- ewer
2.1.7 verified overflow of sewage connection and this may lead to discharge connection and the discharge	:019- ewer
Sewerage connection and Ine from Sathya Nag this may lead to discharge Ine	ewer
sewerage connection and line from Sathya Nag this may lead to discharge Karamana BHS and	
sewerage connection and Image: Sewerage connection and Sewerage connecting connecting connection and Sewerage connection and Sew	ir to
of sewage into River works Completed.	allied
Karamana	
Divert the sewer line from	
the School compound of Kerala Water	e as
2.1.8 Government Karamana Authority completed 100% completed 100% completed	h is
High School	
Works completed – 75N).
(Rs.15.41cr)	
Rehabilitation by laying AMRUT-44,	
new lines increasing size State plan-28	
of undersized main and Kerala Water May 2020 0% 98% State plan-28 2.1.9 Descentruction but Authority May 2020 0% 98%	
reconstruction by Authority dilapidated manholes for Inc. (Rs.	
the last 3 years	
Expected to be complete	d by

				0 /0				31.01.2023 .
	Total works in progress /completed (76No.) Works dropped (2No.)						Dropped – 2 No. (Rs. 1.52cr.) State plan-2	Two works dropped due to not getting offers on repeated tenders and expiry of AS
2.1.10	Extension of sewer network where ever technically feasible in new areas of existing blocks	Kerala Water	May 2020		0.5%	0%	97%	Works completed - 22 No. (Rs. 5.86 cr.) AMRUT-10, State plan-11 MLA ADF/SDF-1
	In progress/Ongoing (24No.)							In progress –2 No. (Rs. 11.35 cr.) AMRUT-2 Expected date of completion
				0.5%				31.03.23 Land acquisition process for three work completed and
								land handed over to KWA



	Under Tendering / To be arranged (3No.) Land acquisition -1					To be arranged	To be arranged– 3-Nos. (Rs. 7.885 cr.) Land Aquisition in progress-1 Nos	and AS obtained for arranging the work under State Plan 22-23 and one work arranged and one work to be tendered. LA for one work in initial stage. One work approved in State Plan 2021-22 and tendered. Quoted rate was high. Since offer received was high, estimate revised and submitted for additional AS under State plan 2022-23. Additional AS obtained and work tendered and work order issued. Expected date of completion 31.05.23
1		Kerala Water	Mar 2020	0%	0%	0%	100%	Work completed.
1	-	Authority						



The document is digitally approved. Hence signature is not needed.

2. Long Term Works

SI No.	Long term measures proposed	Implementing agency	Amount Required (Rs.in Crore)	Time line	Progress in the month of February	the month	% works completed	Details of works remaining
3.1.1	Extension of sewerage system to Block F to G coastal belt							
3.1.2	Extension of sewerage system to Block H to R							
3.1.3	Extension of sewerage system to Newly added areas of corporation viz,						1	Consultant for preparing Detailed Project Report uncovered wards of the Thiruvananthapuram Corporation and Rehabilitation of existing system
3.1.4	Providing sewerage system in Block A to E	Kerala Water Authority	Three years			terminated from the contract due to poor quality work on 31/5/22. Action is being taken to prepar		
3.1.5	Rehabilitation of existing Network and pump house in block A to E			_	years		the DPR of internally	the DPR of 19 wards abutting Karamana river internally
3.1.6	Procurement of equipments for maintenance of sewerage system							
3.1.7	Additional STP requirement							
	Total Amount		5000 Crore					

Iroc	uired	
μει	lanea	-

* Out of the 100 wards in Thiruvananthapuram Corporation, 43 wards(Blocks A to E) are fully/Partially covered with sewerage facility. For 35 Wards (Blocks F to R) design of sewerage network was prepared earlier but needs modification in lieu of the change in demography. Hence designs are to be prepared for 58 wards including 23 wards for which no designs are available. The long term measures are envisaged to cover the entire wards in the Thiruvananthapuram Corporation. For preparing DPR for rehabilitation of existing sewerage system and for establishing Sewerage /Septage management system for uncovered areas of Thiruvananthapuram Corporation, AS has been obtained under RKI. The Additional Chief Secretary, Water Resources directed to design the system with decentralized STP units. The Consultant firm M/s REPL, Delhi had submitted draft DPRs. But, on scrutiny, major discrepancies was observed in the survey data and design of M/s REPL. Hence they were terminated from the work and action is being taken to prepare the DPR internally. Total wards to be covered are divided into 9 clusters. Cluster one comprises of Attukal, Kalady, Kallipankulam, Ambalathara and Kamaleswaram. The DPR for cluster 1 was submitted to GoK & RKI for obtaining Administrative Sanction on 15.10.2022. The DPR preparation for cluster III comprising of 3 wards namely Thiruvallom, Poonkulam and Vellar is in progress, and expected to be submitting on 15/11/2022. Survey works almost completed.



Format for Submission of Monthly Progress Report by States/UTs

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

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

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6.1	Progress Report may be comprised of details along with completion timelines on:			
	(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.			
	 (II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline 			
	(III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure,Gap Analysis, Proposed along with completion timeline, No. of industries and complying status			
	 (iv)<u>Status of Solid Waste Management & Details of Processing</u> <u>Facilities</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline 			
	(v)Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;			
	vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.			
	(vii)Ground water regulation			
	(viii) Adopting good irrigation practices			
	(ix) Protection and management of food plain Zones (FPZ)			

(x) Rain water harvesting		
(xi)Maintaining minimum Environmental flow of river		
(xii) Plantation on both sides of the river		
(xiii)Setting up biodiversity parks on flood plains by removing encroachment		

ACTION PLAN FOR RIVER PAMBA, KERALA

No.	Activity	Implementing	Time line	Progress in the monthof	Progress in the monthof	% works	Details of works
as per Action Plan)		agency		September-2022	October-2022	completed	remaining
A(a)	No industries	-	-	-	-	-	-
A(a)	Monitorng of river water quality	Kerala State Pollution Control Board	Continuing project				
C(ii)	Establishment of de- centralized solid waste treatment facility	Mannar Panchayat,	31.03.2021	Construction of 2 aerobic compost units completed (One each in Grama Panchayat Office compound and near Mannar Private Bus Stand. The work was executed by M/s Floret Technologies, Thiruvananthapuram. An amount of Rs. 13,60,000/- was allocated in the annual plan of Mannar GP for this project. Action Plan on solid waste Management is approved by Grama Panchayat Committee on 27/08/2021	Construction of 2 aerobic compost units completed (One each in Grama Panchayat Office compound and near Mannar Private Bus Stand. The work was executed by M/s Floret Technologies, Thiruvananthapuram. An amount of Rs. 13,60,000/- was allocated in the annual plan of Mannar GP for this project. Action Plan on solid waste Management is approved by Grama Panchayat Committee on 27/08/2021		Inauguration of functioning.

	Kadapra Panchayath has resolved to identify all polluting sources involved in pollution of river resources and initiation of penal action against them	Kadapra Gramapanchayat not submitted report	
	Niranam Gramapanchayat is an upper Kuttanad area , so no such dry land suitable for solid waste treatment plant is available	Niranam Gramapanchayat is an upper Kuttanad area , so no such dry land suitable for solid waste treatment plant is available	

C	Resource Recovery Facility	Mannar Panchayat, Kadapra/ Niranam Panchayath	As there is no RRF in Mavelikkara Block Panchayat in which Mannar GP belongs, nearby Chengannur Block Panchayat has agreed to receive the plastic materials collected and transported by Mannar GP. Mannar GP has started stockpiling of plastic waste materials collected through HKS in a hall above the Vridhdhasadanam owned by GP and segregated and transported to Clen Kerala company. Plastic Waste management Bylaw	As there is no RRF in Mavelikkara Block Panchayat in which Mannar GP belongs, nearby Chengannur Block Panchayat has agreed to receive the plastic materials collected and transported by Mannar GP. Mannar GP has started stockpiling of plastic waste materials collected through HKS in a hall above the Vridhdhasadanam owned by GP and segregated and transported to Clen Kerala	100%	Collection and transportation of Non- bio degradable Materials to RRF for processing

		(Final) has been passed by	company. Plastic Waste	
		Mannar GP on 19/06/2021	management Bylaw (Final)	
			has been passed by	
			Mannar GP on 19/06/2021.	
		Resource recovery facility is	Kadapra Gramapanchayat	
		working as a centralised	not submitted report	
		-		
		arrangement at		
		BlockPanchayath level in		
		Kadapra Grama Panchayath		
		It will be suitable if RRF is	It will be suitable if RRF is	
		established at Block level in	established at Block level in	
		Niranam Grama Panchayath	Niranam Grama Panchayath	
1	· · · ·	1	1	

C	Installing household and community level solid waste management units	Mannar Panchayat	31.03.2021	Collection of Non- biodegradable plastic materials from houses and institutions is conducted by Haritha Karma Sena(HKS). Collection, segregation and transportation of non- biodegradable plastic materials is continuing. About 12 tonnes of plastic materials handed over to Clean Kerala Company(CKC) so far. About 500 kg of plastic materials is kept ready for trasportation. Construction of Two mini MCFs in each ward in all the 18 wards of Mannar GP is	Collection of Non- biodegradable plastic materials from houses and institutions is conducted by Haritha Karma Sena(HKS). Collection, segregation and transportation of non- biodegradable plastic materials is continuing. About 12 tonnes of plastic materials handed over to Clean Kerala Company(CKC) so far. About 500 kg of plastic materials is kept ready for trasportation. Construction of Two mini MCFs in each	100%	Construction and operation of Aerobic compost unit.

			completed. Plastic Waste management Bylaw (Final) has been passed by Mannar GP on 19/06/2021. Action Plan on solid waste Management is approved by Grama Panchayat Committee on 27/08/2021.	ward in all the 18 wards of Mannar GP is completed. Plastic Waste management Bylaw (Final) has been passed by Mannar GP on 19/06/2021. Action Plan on solid waste Management is approved by Grama Panchayat Committee on 27/08/2021.	
C Door to collection transportation municipal waste	and	Mannar Panchayat	Collection of Non- biodegradable plastic materials from houses and institutions is conducted by Haritha Karma Sena(HKS). Collection, segregation and transportation of non- biodegradable plastic materials is continuing. About 12 tonnes of plastic materials handed over to Clean Kerala Company(CKC) so far. About 500 kg of plastic materials is kept ready for trasportation. Construction of Two mini MCFs in each ward in all the 18 wards of Mannar GP is completed. Plastic Waste management Bylaw(final) has been passed by Mannar GP on 19/06/2021. Action Plan on solid waste Management	Collection of Non- biodegradable plastic materials from houses and institutions is conducted by Haritha Karma Sena(HKS). Collection, segregation and transportation of non- biodegradable plastic materials is continuing. About 12 tonnes of plastic materials handed over to Clean Kerala Company(CKC) so far. About 500 kg of plastic materials is kept ready for trasportation. Construction of Two mini MCFs in each ward in all the 18 wards of Mannar GP is completed. Plastic Waste management Bylaw(final) has been passed by Mannar GP on	Continuing

				is approved by Grama Panchayat Committee on 27/08/2021	19/06/2021. Action Plan on solid waste Management is approved by Grama Panchayat Committee on 27/08/2021.	
C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Parumala Town	Kadapra Panchayat	31.12.2020		Kadapra Gramapanchayat not submitted report	

C	Construction of small sewage treatment plant with screening, septic tank and disinfection to the storm water drain of Mannar Town	Mannar Panchayat	31.12.2020	Due to the lack of space and fund, construction of small STP is not included in the annual plan of Mannar Grama Panchayat. It will be suitable if the Govt . takes necessary steps in this matter.	Due to the lack of space and fund, construction of small STP is not included in the annual plan of Mannar Grama Panchayat. It will be suitable if the Govt . takes necessary steps in this matter.	0%	Not applicable
С	Construction of compound wall with fencing	Irrigation department	31.03.2021	Detailed project report for the Holistic rejuvenation of the reaches is prepared and	Detailed project report for the Holistic rejuvenation of the reaches is prepared		
С	Removing light jungle and muddies from river courses	department	31.03.2021	submitted to Government	and submitted to Government		
С	Electrical-Light arrangementsand Surveillance cameras	Irrigation department	31.03.2021				
C	Regualting activites in flood plain zone, protection and management of flood plain zone	Irrigation department	31.03.2021				
	Greenery development Plantatioplan. Plantation on both sides of the river, setting up biodiversity parks on flood plains by removing encroachment	Irrigation department	31.03.2021				

C (b) (ii)	Green Protocol implementation in all Offices institution & Public function	Mannar, Kadapra/ Niranam Panchayat		to comply with Green protocol while conducting ceremonies. Rs. 1,50,000/- has been allocated for a project for the setting up of cloth bag/paper bag unit so that use of plastic carry bags can be discouraged . Green Audit was conducted in Mannar GP Office and	Green Protocol is strictly observed in Mannar GP and other offices as well as public functions . Strict instruction in writing is given to owners of auditoriums , assembly halls, etc to comply with Green protocol while conducting ceremonies. Rs. 1,50,000/- has been allocated for a project for the setting up of cloth bag/paper bag unit so that use of plastic carry bags can be discouraged . Green Audit was conducted in Mannar GP Office and other 13 Government Offices within the Panchayat Area. 11 offices were certified to have fulfilled Green Audit parameters. Certificates were awarded to the successful offices and Suchitwa Padavi Declaration in Mannar GP was conducted 26/01/2021	100%	Continuation of Green Protocol .
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			Kadapra Gramapanchayat not submitted report	
		given to all offices and institution to strictly comply with the green protocol and is regularly monitored in	Necessary instruction are given to all offices and institution to strictly comply with the green protocol and is regularly monitored in Niranam Grama Panchayath	

D(a)	Issues relating to E- flow,maintaining minimum environmental flow of river (by having watershed management provisions)	Irrigation department	30.11.2020	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government	Detailed project report for the Holistic rejuvenation of the reaches is prepared and submitted to Government	
D (b)	Irrigation practices	Irrigation department	30.04.2020			

E	Awareness programmes for sections of public	Kerala State Pollution Control Board	31.05.2020				
C	Management of municipal, plastic, hazardous, biomedical and electrical waste	LSGD		Committee on 05/02/2021. Collection, segregation and transportation of non-	Draft by-law of Plastic Waste Handling has been passed by the Grama panchayat Committee on 05/02/2021. Collection, segregation and transportation of non- biodegradable plastic		

	materials is continuing. Aboutmaterials is continuing.12 tonnes of plastic materialsAbout 12 tonnes of plastic12 tonnes of plastic materialsmaterials handed over toCompany(CKC) so far. AboutClean Kerala Company(CKC)500 kg of plastic materials isso far. About 500 kg ofkept ready forplastic materials is kepttrasportation.Socio-Economicready forUnit (SEU) has been selectedtrasportation.Socio-as implementing agency forEconomic Unit (SEU) hasthe construction Two minibeen selected asMCFs in each ward in all theimplementing agency for the18 wards of Mannar GP.Forconstruction Two mini MCFsthe management ofin each ward in all the 18electrical, electronic andwards of Mannar GP.For thehazardous waste, the Gramapanchayat has reached in anagreement with Clean Keralacompany. Collection andhanding over of electrical,electronic and hazardouswaste will start. Biomedicalwards of Company. Collectionwaste is being collected fromand handing over ofwaste is being collected fromelectronic andwaste will start. Biomedicaland handing over of	
	MCFs in each ward in all the implementing agency for the	
	18 wards of Mannar GP.For construction Two mini MCFs	
	the management of in each ward in all the 18	
	electrical, electronic and wards of Mannar GP.For the	
	hazardous waste, the Grama management of electrical,	
	Panchayat has reached in an electronic and hazardous	
	agreement with Clean Kerala waste, the Grama	
	Company. Collection and Panchayat has reached in an	
	handing over of electrical, agreement with Clean	
	electronic and hazardous Kerala Company. Collection	
	processing by IMAGE (IMA Biomedical waste is being	
	Goes + Eco-friendly), an collected from source and	
	initiative run by IMA (Indian transported for processing	
	Medical Association). by IMAGE (IMA Goes + Eco-	
	friendly), an initiative run by	
	IMA (Indian Medical	
	Association).be	

ACTION BY GROUND WATER DEPARTMENT

SI. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	NOC has not been issued to industries for Ground Water extraction during September 2022	NOC has not been issued to industries for Ground Water extraction during October 2022	Demand based	 1.As per the GEC estimation all the blocks in the District has beencategorized as SAFE. 2.Provisions of GW (control &Regulation) Act 2002 is implementing strictly for regulating extraction of GW resource in the district
2	B(ii)	Ground water recharging / rain water harvesting	Artificial Recharge Structure 10 sites estimate prepared and sent to Directorate Selection Notice for tendered work.(5 sites) given on 15/09/2022	Artificial Recharge Structure 5 sites Work order Prepared.	Demand based	All the blocks in the district is categorized as SAFEas per GEC estimation. Kadapra-Niranam Area is not feasible for Ground WaterRecharge. However, GW recharging programme is taken up in some pockets in the midland area including Manimala basin. Where seasonal GW level fluctuation is noticed.

3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps	Groundwater sample collection during the month of September 2022 from monitoring wells (borewells and open wells) collected and sent to Analytical Lab Thiruvananthapuram for chemical analysis soon	Groundwater sample collection during the month of September 2022 from monitoring wells (borewells and open wells) collected and sent to Analytical Lab Thiruvananthapuram for chemical analysis soon.	Periodical assessment(Regular programme) Chemical analysis result ofgroundwater samples collected during November- 2020 reveals that the gw quality is good and potable.	 (i)Maintaining a network of observation wells in varioushydrogeomorphic units throughout the district from which water level and water samples have been collected periodically and analysed. (ii)generally groundwater quality is good and potable
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices	Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the feasibility report ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.	Borewell/ tube well construction is regulated in the district by insisting permit of local bodies based on the feasibility report ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose.	Continuing programme	 i)Borewell/tube well construction is regulated in the district by insisting permit of local bodies based on the feasibility report of GWD ii) Promoting conjunctive use of groundwater and surface water for irrigation purpose. iii)Awareness programmes organised to the public to adopt rainwater harvesting measures

MONTHLY ANALYSIS REPORT OF POLLUTED RIVER STRETCHES OCTOBER-2022

STATION : MANNAR

Sampling date : 03.10.2022

SI.NO	PARAMETERES	ITTINAYARKADAVU BRIDGE KUTTAMPEROOR	KOTTAKAL KADAVU BRIDGE KORATTIKADAVU	PARUMALA BRIDGE	MANNAR BRIDGE
1	Temp. (°C)	28	27	28	28
2	рН	6.8	6.6	6.5	6.6
3	Conductivity (µS/cm)	73.37	78.37	75.72	44.80
4	DO (mg/l)	5.5	5.7	5.4	5.6
5	BOD (mg/l)	1.4	1.3	0.9	1.4
6	COD (mg/l)	6.4	6.4	3.2	6.4
7	TDS (mg/l)	32	30	34	30
8	TC (CFU/100ml)	790	320	280	140
9	FC (CFU/100ml)	260	100	90	40
10	FSC(CFU/100ml)	Nil	Nil	0	Nil

WATER QUALITY DATA OF POLLUTED RIVER STRETCHES OCTOBER- 2022

DISTRICT OFFICE, PATHANAMTHITTA

Date of Sampling: 03.10.2022

Sl.No	PARAMETERS	THAKZHY	EDATHUA	MANNAR
1	Temperature, ºC	28	28	28
2	рН	6.3	6.1	6.1
3	Conductivity, μmhos/cm	72	59	52.28
4	Turbidity, NTU	2.5	1.9	1.9
5	Phenolphthalein Alkalinity, as CaCO ₃	Nil	Nil	Nil
6	Total Alkalinity, as CaCO3	12	10	11
7	Chloride, mg/l	12	8	10
8	COD, mg/l	3.2	6.4	6.4
9	TKN, mg/l	0.25	0.2	0.18
10	Ammoniacal-N, mg/l	BDL	0.135	BDL
11	Hardness, as CaCO₃ mg/l	26	22	18
12	Calcium, as CaCO ₃ mg/l	16	12	10
13	Magnesium as CaCO ₃ , mg/l	10	10	8
14	Sulphate, mg/l	2.5	1.9	2.3
15	Sodium, mg/l	6.4	4.5	5.4
16	Total Dissolved Solids, mg/l	44	34	36
17	Total Fixed Solids, mg/l	39	29	31
18	Total Suspended Solids, mg/l	34	25	26
19	Phosphate, mg/l	BDL	BDL	BDL
20	Boron, mg/l	BDL	BDL	BDL
21	Potassium, mg/l	0.718	0.514	0.623
22	BOD, mg/l	0.9	0.514	1
23	Fluoride, mg/l	0.25	0.2	0.2
24	Dissolved Oxygen, mg/l	6	5.3	5.8
25	Nitrate-N, mg/l	0.195	0.179	0.219
26	Total Coliform, CFU/100 ml	210	270	230
27	Faecal Coliform, CFU/100 ml	70	90	80
28	SAR	0.5457	0.417132	0.55338
29	% of sodium	14.5088	11.9999	16.67499
30	Faecal Strepto Coccus,CFU/100 ml	Nil	Nil	Nil

National Mission for Clean Ganga

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

RIVER MANIMALA, ALAPPUZHA

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT- Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2021	NIL
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	Since Large Land holding by local residents on the bank, No
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning	22.01.2020	Such issues arises, no need of steps since
5	 Chief Secretaries may set up appropriate monitoring mechanism at state level Specifying accountability of nodal authorities not below the Secretary level 	22.01.2020	No industry/commercial activity
	 Chief Secretaries may have an accountable person attached in their office for this purpose 		
	 Monitoring at State level must take place 	22.01.2020	NIL
6	 Progress report may be furnished by the State/UTs to Secretary, Ministry of Jal Shakti Member Secretary, CPCB 	22.01.2020 Fortnightlyco mmencing	NIL

6. 1	Progress Report may be comprised of details along with completion timelines on:	21.12.2019	Drains contributing to river pollution were
	 (I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. 	2020-2021	identified.The drains are seasonal and water quality is above the require limit,no in situ.
	(II) <u>Status of STPs, I&D and sewerage networks</u> Details of		Proposal for setting up an FSTP by
	Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Chengannur municipality is initiated.
	(III) Status of CETDs		Since the area does not contain any
	(III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap		industry no requirement of any CETP, this action.
	Analysis, Proposed along with completion timeline,		Plan revised.
	No. of industries and complying status		The adjoining local bodies are in the stage of developing and establishing adequate
			solid waste management facilities also the
	(iv) <u>Status of Solid Waste Management & Details of</u> Processing Facilities	2019-2020	solid waste during issues were not
	Details of Existing Infrastructure, Gap Analysis,		identified in the stretch during field visit held during past 1year.
	Proposed along with completion timeline		Water quality analysis result of the stretch
	(v) Latest water quality of polluted river, its tributaries,		up to October 2022 is enclosed.
	drains with flow details and ground water quality in	2020-2021	Awareness campaigns initiated.
	the catchment of polluted river;		No groundwater pollution is noted in the
		2020-2021	area action yet to be initiated.
	(vi)Preventing dumping of waste and scientific waste		
	management including bio-medical waste, plastic		

		[[]	المعادية والمعالين ومعاده
	waste and decentralizing waste processing, including		Action will be initiated.
	waste generated from hotels, Ashrams, etc.		Action will be initiated.
	(vii)Ground water regulation		Action will be initiated.
	(viii) Adopting good irrigation practices		Action will be initiated.
			Action will be initiated.
	(ix) Protection and management of food plain Zones (FPZ)		Action will be initiated.
	(x) Rain water harvesting		
	(xi)Maintaining minimum Environmental flow of river		
	(xii) Plantation on both sides of the river		
	(xiii)Setting up biodiversity parks on flood plains by removing encroachment		
I			

ACTION PLAN FOR RIVER PAMBA, KERALA

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of August 2022		Progress in the month of October 2022	% works completed	Details of works remaining
A(a)	Monitorng of river water quality	Kerala State Pollution Control Board	Continuing project	Result attached	Result attached	Result attached	100%	NIL
A(b)	Rendering Plant at Eraviperoor or Thiruvalla	Eraviperoor/ Thiruvalla local body	31.03.2021				0%	Work to be initiated
C(ii)	Fencing of bridges, desilting, dredging and protection works, surveillance cameras at vantage points	Irrigation department	31.03.2021				0%	Work to be initiated
С	Preventing illegal discharge of septage and other waste water into the river. Formation of River Protection Group	Panchayath, Police , KSPCB	31.05.2020.	NIL	NIL	NIL	0%	Work pending due to COVID pandemic
С	Greenery development Plantation on both sides of the river, setting up biodiversity parks in flood plains and removing encroachment	Irrigation department in association with panchayath	31.03.2021				0%	Yet to be intiated
C(b)(ii)	Green Protocol implementation in all offices, institution & public functions	Kalloopara, Eraviperoor, Puramattom, Kaviyoor, Peringara, Kuttoorpanchayaths	31.03.2020	100%	100%	100%	100%	0

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

ACTION BY GROUND WATER DEPARTMENT

SI. No	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Timeline	Progress in the month of August 2022	Progress in the month of September 2022	Progress in the month of October 2022	% works complete d	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	31.03.2021					
2	B(ii)	Ground water recharging / rain water harvesting in Govt offices	31.03.2021					

3	NGT order in O.A	NGT order in O.A no.496/2016 Identification of illegal	31.03.2021			
	no.496/2016	bore wells in the catchment area.				
	Identification of					
	illegal bore wells in					
	the catchment area.					

SI NO	BOTTLE NO.	Name of Drains	РН	BOD	COD	ТС	FC
1	TK1	Panayampalathodu	6.9	1.4	-	2000	1100
2	TK2	PadathupalamThodu	7.2	1	-	1600	700
3	TK3	Thottappuzha	6.9	.2	-	300	100
4	TK4	Kuttapuzha under Kattodubridge	6.9	1.6	-	1500	700
5	TK5	Kadavumbara	6.8	.5	-	1200	800
6	TK6	Drain under Varappalam Bridge	7.4	4.3	-	2500	600
7	TK7	Drain under kallupalam Bridge	7.1	1.3	-	2100	1000
8	TK8	Komalamthodu	7.1	0.6	-	2800	1200
9	TK9	Vennikulam Valiyathodu	6.9	0.6	-	1500	600
10	TK10	Paduthodu	6.8	0.6	-	400	500
11	TK11	Mallappally Valiyathodu	6.9	0.8	-	2300	1200

ANALYSIS REPORT OF DRAINS OF MANIMALA BETWEEN KALLOOPARA AND THONDRA OCTOBER-22

National Mission for Clean Ganga

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

RIVER PAMBA, PATHANAMTHITTA

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT-Compliance status
1	Ensure 100% treatment of sewage at		NA
	least in-situ remediation		
	Commencement of setting up of STPs		NA
	and connecting all the drains and other		
	sources of generation of sewage to the		
	STPs must be ensured		
2	Timeline for completing all steps of		NA
	action plans including completion of		
	setting up STPs and their		
	Commissioning		
5	Chief Secretaries may set up		NA
	appropriate monitoring mechanism at		
	state level		
	• Specifying accountability of nodal		
	authorities not below the		
	Secretary level		

	 Chief Secretaries may have an accountable person attached in their office for this purpose 		
	 Monitoring at State level must take place 		
6	 Progress report may be furnished by the State/UTs to Secretary, Ministry of Jal Shakti Member Secretary, CPCB 	Monthly(pre ferably before 20 th of every month	NA

6. 1	 Progress Report may be comprised of details along with completion timelines on: (I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. 	2019-2020	Drains contributing to river pollution were Identified-The drains are seasonal and water quality is above the required limit, no in- situ Treatment is required
	 (II) <u>Status of STPs, I&D and sewerage</u> <u>networks</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline (III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure,Gap Analysis, Proposed along with completion timeline, No. of industries and complying status 		Since the area does not contain any industry and so do not require any CETP, this action point is revised The adjoining local bodies are in the stage of developing and establishing adequate solid waste management facilities. Also, the solid waste dumping issues were not identified in the stretch during the field visit held during past one year. Water quality analysis results of October 2022 is enclosed. Awareness campaign to be initiated

	No ground water pollution is noted in the area so action yet to be initiated.
(iv) <u>Status of Solid Waste Management</u>	
& Details of Processing Facilities	Adopted.
Details of Existing	
Infrastructure,Gap Analysis,	Action will be initiated.
Proposed along with completion	
timeline	Action will be initiated.
(v)Latest water quality of polluted river,	Action will be initiated.
its tributaries, drains with flow	Action will be initiated.
details and ground water quality in the catchment of polluted river;	Action will be initiated.
(vi)Preventing dumping of waste and	
scientific waste management	
including bio-medical waste, plastic	
waste and decentralizing waste	
processing, including waste	
generated from hotels, Ashrams,	
etc.	

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

ACTION PLAN FOR RIVER PAMBA, KERALA

No.	Activity	Implement Time line	Progress in the month of	Progress in the month of	Progress in the month of	% works Details of
(as per		ing agency	August 2022	September 2022	October 2022	complet works

Action							ed	remaining
Plan)								
A(a)	No	-	-				-	-
A(a)	industries	Kerala	Continuing	Result attached	Result attached	Result attached	100%	Nil
A(a)	Monitorn		-	Result attached	Result attached	Result attached	100%	INII
	g of river	State Pollutio	project					
	water							
	quality	n Control						
		Board						
C(ii)	Establish	Mannar	20 00 2022	Construction of 2 aerobic	Construction of 2 aerobic	NA	100%	Inaugura
C(II)	ment of	Pancha			compost units completed (One		100%	tion of
	de-	yat,			each in Grama Panchayat Office			functioni
	centralize	Kadapr			compound and near Mannar			ng.
	d solid	a/			Private Bus Stand. The work was			ng.
	waste	a, Nirana			executed by M/s Floret			
	treatment	mPanch		executed by M/s Floret	Technologies,			
	facility	ayath			Thiruvananthapuram. An			
	,	,			amount of Rs. 13,60,000/- was			
				•	allocated in the annual plan of			
					Mannar GP for this project.			
				plan of Mannar GP for this	Action Plan on solid waste			
				project. Action Plan on solid	Management is approved by			
				waste Management is	Grama Panchayat Committee on			

				Panchayat Committee on	27/08/2021			
				27/08/2021				
С	Establish	Mannar	30.08.2022	Collection of Non-	Collection of Non- biodegradable	NA	100%	Construc
	ment of	Pancha		biodegradable plastic	plastic materials from houses			tion of
	Material	yat,		materials from houses and	and institutions is conducted by			permena
	Collection			institutions is conducted by	Haritha Karma Sena(HKS). Non-			nt MCF
	Facility			Haritha Karma Sena(HKS).	biodegradable plastic materials			building.
				Non- biodegradable plastic	has bCollection, segregation and			
				materials has bCollection,	transportation of non-			
				segregation and	biodegradable plastic materials			
				transportation of non-	is continuing. About 12 tonnes			
				biodegradable plastic	of plastic materials handed over			
				materials is continuing. About	to Clean Kerala Company(CKC)			
				12 tonnes of plastic materials	so far. About 500 kg of plastic			
				handed over to Clean Kerala	materials is kept ready for			
				Company(CKC) so far. About	trasportation. Construction of			
				500 kg of plastic materials is	Two mini MCFs in each ward in			
				kept ready for trasportation.	all the 18 wards of Mannar GP is			
				Construction of Two mini	completed. Plastic Waste			
				MCFs in each ward in all the	management Bylaw (Final) has			
				18 wards of Mannar GP is	been passed by Mannar GP on			
				completed. Plastic Waste	19/06/2021.			
				management Bylaw (Final)				

				has been passed by Mannar GP on 19/06/2021.				
C	Resource	Mannar	30.08.2021	As there is no RRF in	As there is no RRF in Mavelikkara	NA	100%	
	Recovery Facility	Pancha yat, Kadapr a/ Nirana mPanch ayath		Mavelikkara Block Panchayat in which Mannar GP belongs, nearby Chengannur Block Panchayat has agreed to receive the plastic materials collected and transported by Mannar GP. Mannar GP has started stockpiling of plastic waste materials collected through HKS in a hall above the Vridhdhasadanam owned by GP and segregated and transported to Clen	Block Panchayat in which Mannar GP belongs, nearby Chengannur Block Panchayat has agreed to receive the plastic materials collected and transported by Mannar GP. Mannar GP has started stockpiling of plastic waste materials collected through HKS in a hall above the Vridhdhasadanam owned by GP and segregated and transported to Clen Kerala company. Plastic		100%	
				Kerala company. Plastic Waste management Bylaw (Final) has been passed by Mannar GP on 19/06/2021.	Waste management Bylaw (Final) has been passed by Mannar GP on 19/06/2021.			

С	Installing	Mannar	30.08.2022 Collection of Non-	Collection of Non- biodegradable	NA	100%	Operatio
	househol	Pancha	biodegradable plastic	plastic materials from houses			n of
	d and	yat	materials from houses and	and institutions is conducted by			Aerobic
	communi		institutions is conducted by	Haritha Karma Sena(HKS).			compost unit.
	ty level		Haritha Karma Sena(HKS).	Collection, segregation and			unit.
	solid		Collection, segregation and	transportation of non-			
			transportation of non-	biodegradable plastic materials			
	waste		biodegradable plastic	is continuing. About 12 tonnes of			
	manage		materials is continuing. About	plastic materials handed over to			
	ment		12 tonnes of plastic materials	Clean Kerala Company(CKC) so			
	units		handed over to Clean Kerala	far. About 500 kg of plastic			
			Company(CKC) so far. About	materials is kept ready for			
			500 kg of plastic materials is	trasportation. Construction of			
			kept ready for trasportation.	Two mini MCFs in each ward in			
			Construction of Two mini	all the 18 wards of Mannar GP is			
			MCFs in each ward in all the	completed. Plastic Waste			
			18 wards of Mannar GP is	management Bylaw (Final) has			
			completed. Plastic Waste	been passed by Mannar GP on			
			management Bylaw (Final)	19/06/2021. Action Plan on			
			has been passed by Mannar	solid waste Management is			
			GP on 19/06/2021. Action	approved by Grama Panchayat			
			Plan on solid waste	Committee on 27/08/2021.			
			Management is approved by				
			Grama Panchayat Committee				
			on 27/08/2021.				

C	Door to door collection and transport ation of	Mannar Pancha yat	30.08.2022	materials from houses and institutions is conducted by Haritha Karma Sena(HKS). Collection, segregation and	Collection of Non- biodegradable plastic materials from houses and institutions is conducted by Haritha Karma Sena(HKS). Collection, segregation and transportation of non- biodegradable plastic materials	NA	100%	The process has to be repeated throught the year.
	municipal solid waste	biodegradable plasticis continuing. About 12 tonnes of materials is continuing. About plastic materials handed over to 12 tonnes of plastic materials12 tonnes of plastic materialsClean Kerala Company(CKC) so handed over to Clean Kerala Company(CKC) so far. AboutCompany(CKC) so far. About 500 kg of plastic materials is kept ready for trasportation. Construction of Two mini MCFs in each ward in all the 18 wards of Mannar GP is completed. Plastic WasteMCFs in each ward in all the 18 wards of Mannar GP is completed. Plastic WasteManagement Bylaw(final) has 19/06/2021. Action Plan on						
				management Bylaw(final) has been passed by Mannar GP				

				is approved by Grama	Committee on 27/08/2021.		
				Panchayat Committee on			
				27/08/2021.			
С	Construct	Kadapr	31.12.2020				
	ion of	aPanch					
	small	ayat					
	sewage						
	treatmen						
	t plant						
	with						
	screening						
	, septic						
	tank and						
	disinfecti						
	on to the						
	storm						
	water						
	drain of						
	Parumala						
	Town						

screening , septic tank and disinfecti on to the	d i				
water drain of Mannar Town C Constructi on of compound wall with fencing	ti Irrigatio of n id depart	31.03.2021			

C	Removing	Irrigatio	31.03.2021			
	light	n				
	jungle and	depart				
	muddies	ment				
	from river					
	courses					
С	Electrical-	Irrigatio	31.03.2021			
	Light	n				
	arrangem	depart				
	ents and	ment				
	Surveillan					
	ce					
	cameras					
С	Regualting	Irrigatio	31.03.2021			
	activites in					
	flood plain					
	zone,	ment				
	protection					
	and					
	managem					
	ent of					
	flood plain					
	zone					

	Greenery	Irrigatio	31.03.2021					
	developm	n						
	entPlantat	depart						
	ion plan.	ment						
	Plantation							
	on both							
	sides of							
	the river,							
	setting up							
	biodiversit							
	y parks on							
	flood							
	plains by							
	removing							
	encroach							
	ment							
C (b) (ii)	Green	Mannar	30.06.2020	Green Protocol is strictly	Green Protocol is strictly observed in	NA	100%	Continua
0 (0) (1)	Protocol	mannar	0010012020	observed in Mannar GP and	Mannar GP and other offices as well			tion of
	implemen	, Kadapr		other offices as well as public	as public functions . Strict instruction			Green
	tation in	a/		functions . Strict instruction in writing is given to owners of	in writing is given to owners of auditoriums, assembly halls, etc to			Protocol .
	all Offices	a, Nirana			comply with Green protocol while			FIOLOCOI.
				-	conducting ceremonies. Rs.			
	institution	mPanch		-	1,50,000/- has been allocated for a			
	& Public	ayat		1,50,000/- has been allocated for				
	function				bag/paper bag unit so that use of plastic carry bags can be			
				use of plastic carry bags can be	plastic carry bays carrie			

				discouraged . Green Audit was	discouraged.		
				conducted in Mannar GP			
				Office and other 13			
				Government Offices within			
				the Panchayat Area. 11			
				offices were certified to			
				have fulfilled Green Audit			
				parameters. Certificates were			
				awarded to the successful			
				offices and Suchitwa Padavi			
				Declaration in Mannar GP			
				was conducted 26/01/2021.			
D(a)	Issues	Irrigatio	30.11.2020				
	relating to						
	E-flow,	depart					
	maintainin	ment					
	g						
	minimum						
	environm						
	ental flow						
	of river						
	(by having						
	watershed						
	managem						
	managem						

	ent							
	provisions							
)							
D (b)	Irrigation	Irrigatio	30.04.2020					
	practices	n						
		depart						
		ment						
E	Awarenes	Kerala	31.05.2020		Awarness classes were	Awarness classes were	100%	
	S	State		conducting	conducting	conducting		
	programm	Pollutio						
	es for	n						
	sections of	Control						
	public	Board						-
C	Managem	LSGD		Draft by-law of Plastic Waste	•	NA	100%	The
	ent of				Handling has been passed by the			process
	municipal,				Grama panchayat Committee on			is to be
	plastic,				05/02/2021. Collection,			repeated
	hazardous				segregation and transportation			periodica
	,				of non-biodegradable plastic			lly.
	biomedica			• .	materials is continuing. About 12			
	l and			materials is continuing. About				
	electrical			12 tonnes of plastic materials	handed over to Clean Kerala			

waste	handed	over to Clean Kerala	Company(CKC) so far. About 500	Ī	
wasie			, , , ,		
			kg of plastic materials is kept		
		•	ready for trasportation.Socio-		
	kept rea	•	Economic Unit (SEU) has been		
	trasport	ation.Socio-Economic	selected as implementing agency		
	Unit (SE	U) has been selected	for the construction Two mini		
	as imple	ementing agency for	MCFs in each ward in all the 18		
	the cons	struction Two mini	wards of Mannar GP.For the		
	MCFs in	each ward in all the	management of electrical,		
	18 ward	s of Mannar GP.For	electronic and hazardous waste,		
	the mar	agement of	the Grama Panchayat has		
	electrica	al, electronic and	reached in an agreement with		
	hazardo	us waste, the Grama	Clean Kerala Company.		
	Panchay	at has reached in an	Collection and handing over of		
	agreem	ent with Clean Kerala	electrical, electronic and		
	Compar	y. Collection and	hazardous waste will start.		
	handing	over of electrical,	Biomedical waste is being		
			collected from source and		
	waste w	vill start. Biomedical	transported for processing by		
			IMAGE (IMA Goes + Eco-		
		-	friendly), an initiative run by IMA		
		•			
	i i i i i i i i i i i i i i i i i i i	e , .			
	Medical	Association).			
	processi Goes + E initiative	•	(Indian Medical Association).		

ACTION BY GROUND WATER DEPARTMENT

SI. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Progress in the month of August 2022	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remainin g
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks					
2	B(ii)	Ground water recharging / rain water harvesting					
3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps					
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices					

			An	alysis R	esult of L	Drains Jo	oining to	o Manna	ar-Tha	kazhi Si	tretch of	^e Pamba	River (2)22-2023)				
<i>Sl</i> .										Paran	neters							
No	Name of Drain	Tame of Drain pH		Electrical Conductivity (µS/cm)		BOD(mg/l)		COD(mg/l)		TC(Nos/100ml)			FC					
	Months	AUG	SEP	ОСТ	AUG	SEP	ОСТ	AUG	SEP	OCT	AUG	SEP	OCT	AUG	SEP	ОСТ	SEP	OCT
1	Parumala Drain	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2	MannarTown Drain	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3	Kuriyathkadavu Thodu	7.3	NA	6.33	59.2	NA	49.03	0.2	NA	0.3	4	NA	-	1700	NA	2500	NA	1000
4	Karuvelil Thodu	7.4	6.5	6.73	35.18	61.7	43.39	0.3	0.8	0.7	4	4	-	500	400	800	100	400
5	Nochithodu	7.4	6.4	6.52	56.53	71.16	85.13	0.3	2.2	1.1	8	8	-	2000	800	1900	300	800
6	Pattaparambil Thodu	7.3	6.5	6.52	41.53	51.77	64.8	0.1	0.7	4.9	8	4	-	600	100	2400	0	1200
7	Kappiyarissery Thodu	7.2	6	6.66	45.18	46.12	65.73	0.2	2.5	2.4	4	16	-	200	1000	2000	700	800
8	Kombankery Thodu	7.4	6.7	6.9	53.24	70.75	31.41	0.7	0.6	0.2	4	4	-	400	300	1200	100	700
9	Perackalthodu	7.5	6.8	6.8	40.3	47.95	39.32	0.1	0.8	0.2	8	4	-	700	600	2200	300	1000
10	Erathodu	7.5	6.7	6.86	62.5	49.27	29.49	0.3	1.2	0.6	12	4	-	2200	2800	1800	1400	1000
11	Kolarayaru	7.5	6.7	6.84	40.78	90.9	28.65	0.2	0.3	0.9	8	4	-	100	300	1200	100	900

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

RIVER CHITHRAPUZHA. ERNAKULAM

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT- Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation		Major units have own treatment facility
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured		
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		Proposed to construct Combined STP with the Thrikkakara Municipality in Brahmapuram Plant(for both Municipalities)
5	 Chief Secretaries may set up appropriate monitoring mechanism at state level Specifying accountability of nodal authorities not below the Secretary level Chief Secretaries may have an accountable person attached in their office for this purpose Monitoring at State level must take place 		
6	 Progress report may be furnished by the State/UTs to Secretary, Ministry of Jal Shakti Member Secretary, CPCB 		

6.1	Progress Report may be comprised of details along with completion timelines on:(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.		2 persons identified and Fine Imposed Amount – 30,000
	(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline		
	(III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure,Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		
	 (iv)<u>Status of Solid Waste Management & Details of</u> <u>Processing Facilities</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline 	nithura	Plastic Waste given to a Government Approved agency for recycling processing and Bio waste processed in Brahmapuram Plant.
	 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; 		
	(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.		Bio Medical waste collect to IMAGE and plastic waste given to government approved agencies, bio waste processing to Brahmapuram Plant.

(vii)Ground water regulation		
(viii) Adopting good irrigation practices		
(ix) Protection and management of food plain Zones (FPZ)		
(x) Rain water harvesting		
(xi)Maintaining minimum Environmental flow of river		
(xii) Plantation on both sides of the river	T I:	
(xiii)Setting up biodiversity parks on flood plains by		Dana
removing encroachment	Municip ality	Done.
		Completed.

ACTION PLAN FOR RIVER CHITHRAPUZHA, KERALA SHORT TERM MEASURES

No.	Activity		Implementing	Time line	Progress in the month of	Progress in the month	% works	Details of works
(as per Action			agency		September 2022	of October 2022	completed	remaining
Plan)		(1) Dr	ain ioining Ch	ithrapuzha	l (near Brahmapuram du	mping vard) (Near F	ACT CD)	
C (ii)	Restricting se	epage of leachate of	Kochi	3 years	Bio mining started and		NA	
0 (11)	-	ed in the dumping	Corporation	5 years	progressing	i progressing		
	(Biomining of be carried ou	f legacy waste is to t)						
Aa (iv)	Effluent moni	toring from FACT	KSPCB	Periodical	ongoing	ongoing		
Aa (iv)	Periodical Mo	nitoring	КЅРСВ	Periodical	ongoing	ongoing		
				(2)Dra	in from Cochin Refinery	area		
No.	Activity		Implementing	Time line	Progress in the month of	Progress in the month	% works	Details of works
(as per Action Plan)			agency		September 2022	of October2022	completed	remaining
Aa (iv)	 V) Surveillance to restrict the dumping of wastes into the river and its branches 			Periodical	ongoing	ongoing		
A(b)	Sanitation Su	rvey	Vadavucode – Puthencruz Panchayat	3 months	Completed 1700 houses. Progressing. Covered 5000	progressing		

					houses. DLTC directed to submit the detailed report on sanitation survey			
E	Periodical Chithrapuzha	Cleaning of	Irrigation Department	Twice in 3 years	Reach I – Third term cleaning started Reach II, Second term cleaning Reach I-66% Reach II -65% For Reach III,Estimate submitted to CE Reach III will be implemented through Operation Vahini.	Work Completed.	100%	
	Treatment fac	mented Effluent ility in Kochi periodical monitoring	KSPCB		ongoing	ongoing		
		(3)Athikk	ayi branch (Pro	ovided tem	porary bund in joining se	ection to check salin	ity intrusio	n)
No. (as per Action Plan)	Activity		Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works complete d	Details of works remaining
A(b)	Identification causing units(of major pollution Apartments,	Thrikkakkara Municipality	3 months	Progressing	Progressing		

	hospitals, service stations, markets and industries) in upstream	KSPCB		Progressing	Progressing		
Aa(iv)	Surveillance to restrict the dumping of wastes into the river and its branches		Monitoring	action initiated	Identified 52 violations. 3 persons fined. Details of vehicles collected from RTO Office to identify the vehicle that littering wastes.Further actions will be initiated against the violators. progressing		
Aa(iv)	Periodical Monitoring	KSPCB		Monthly monitoring progressing.	Monthly monitoring progressing.		
A(b)	Sanitation Survey	Thrikkakara Municipality		Sanitation survey progressing. Environmental Engineer ,KSPCB informed the municipality to submit the report.	Sanitation survey progressing.		
E	Periodical Cleaning.	Irrigation Department	year	Reach I-Third trem cleaning started.Reach II-Second term cleaning. Reach I-66% ,Reach II-65% For Reach III,Estimate	Work completed.	100%	

				submitted to CE.Reach I and Reach II completed.Reach III will be implemented through Operation Vahini.			
			-	appuzha from CSEZ(Chitt	-	1	
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% Works completed	Details of works remaining
A(b)	Ensure proper functioning of ETP in CSEZ	КЅРСВ	Periodical	The CETP is functional. But, discharge standards not fully complied. Violation noted, action being initiated.	Monitoring progressing		
A(b)	Sanitation Survey and periodical cleaning	Thrikkakara Municipality	6 months	Sanitation survey progressing. Environmental Engineer ,KSPCB informed the municipality to submit the report.	Sanitation survey progressing.		
Aa(iv)	Periodical Monitoring	KSPCB	Periodical	Ongoing	Ongoing		
	(5) V	ettuvelikkada	vu (Konotł	 nupuzha joining Chithrap	puzha)		
No. (as per Action	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October	% Works completed	Details of works remaining

Plan)					2022	
A(b)	Identifying and closing of all unauthorized outlets into the stream joining the river		6 months	The secretary reported the action is progressing. 15 notices issued	Action progressing	
A(b)	Sanitation Survey	Thripunithura Municipality	3 months	Completed, Environmental Engineer, KSPCB informed the municipality to submit the sanitation survey report. Sanitation survey report not submitted to DLTC	Reported to be completed.	
Aa(iv)	Periodical Monitoring	КЅРСВ	Periodical	ongoing	Ongoing	
C(ii)	Surveillance to restrict the dumping of wastes into the river and its branches	Thripunithura Municipality with the help of Police	6 months	Secretary informed that surveillance squad is already formed and action will be imitated for the inspections and night surveillance of squad. Squad inspection progressing. Environmental Engineer, KSPCB informed the municipality to submit the details of inspections. Night Squad inspection progressing. 18 cases identified. Collected Rs 88,750 as fine.		

E	Cleaning of Konothupuzha (work Proposal already submitted by Minor Irrigation)		Irrigation Department (Minor Irrigation)	Twice in a year	Action initiated as per the di	irections of Hon'ble N	GT OA 237/20	17
		M	ain Stretch (Ka	Idambraya	r-Chithrappuzha Confluer	nce point to Irump	anam)	
No. (as per Action Plan)	Activity		Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining
E	Periodic Clear	ning	Irrigation Department	Once in a year	Reach II(second time cleaning)will start on January	Reach II completed, Reach III 70% completed	completed	
			Vadavucode - Puthercruz with the help of Police	Periodical Monitoring	Ongoing.	Ongoing.		
C(ii)	Surveillance dumping of w	to restrict the vastes into the river	Thripunithura Muncipality with the help of Police	6 months	Surveillance squad is already formed and action being taken for the night surveillance	Squad inspection progressing.		
Aa(iv)	River water q	uality monitoring	КЅРСВ	Ongoing	Conducting monthly monitoring	Conducting monthly monitoring		
A(b)	monitoring of	d effluent quality f the flats, industrial stations, hospitals,	КЅРСВ	Ongoing	Ongoing	Ongoing		

	hotels etc					
C(ii)	Surveillance e of restrict dumping of waste to the river, Sanitation survey (with the help of Police)	Vadavukode Puthenkruze Panchayath	6 months	Ongoing	Ongoing	

LONG TERM MEASURES

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of August 2022	Progress in the month of September 2022	% works completed	Details of works remaining
E	Provide inspection bund for Chithrapuzha	Irrigation Department	3 years	Remind letter submitted to Thahasidar Kanayannur Thaluk regarding the survey	Remind letter submitted to Thahasidar Kanayannur Thaluk regarding the survey	45%	Remaining work is Land survey.
A(b)		Thrikkakkara Municipality, Thripunithura Municipality	3 years	No progress	No progress due to adequate land .Secretary informed that special council meeting convened and sub committee constituted for identifying land for the STP		

Restriction of illegal dumping of Septage in to the river	Police			
Flood Plain Zone(Management and Protection) Preparation of Inundation maps	Irrigation Department	Detailed study and investigations has to be done with the consultation of Hydrology Wing.	Detailed study and investigations has to be done with the consultation of Hydrology Wing.	

ACTION BY GROUND WATER DEPARTMENT

Sl. No.	Ref para	Activity	Progress in the month of	Progress in the month	% works	Details of
	item nos as		September 2022	of October2022	complete	works
	per NGT				d	remaining
	Order				-	
	no.673/201					
	8 dated					
	20.09.2018					
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over	NA			
		exploited as critical zones/blocks				
2	B(ii)	Ground water recharging / rain water harvesting	Ongoing			
3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps	Cleaning of wells are ongoing			
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices	NA			

National Mission for Clean Ganga

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

RIVER KADAMBRAYAR, ERNAKULAM

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

6.1	Progress Report may be comprised of details along with completion timelines on:(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.	Ongoing by KSPCB and Thrikkakkara Municipality
	(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline	Submitted earlier.
	(III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure,Gap Analysis, Proposed along with completion timeline,	Submitted earlier.
	No. of industries and complying status	The Kadambrayar river shares the western boundary of Kunnathunadu Grama
	 (iv)<u>Status of Solid Waste Management & Details of</u> <u>Processing Facilities</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline 	Panchayat for a stretch of approximately 6Kms. And 90% of this stretch consists of swamps, hence direct access to the river via land is ruled out. And in the remaining stretch, i.e., in and around Manakkakadvu
	 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; 	bridge the DTPC operates a boat club with a riverside walkway and park. Any kind of possible river polluting activities by the general public in this area is monitored by
	(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.	the erection of CCTVcamera's provided with the CSR aid of Wonderla Amusements Park. Also the police authorities are conducting routine surveillance operation so as to

(viii) Adopting good irrigation practices under the Kadambrayarriver basin. All blocks in the river stretch are safe with st	(vii)Ground water regulation	prevent any possible illegal activities will pollutes the river. In addition to the preventive measures, there operates a Will Monitoring Committee under the supervise of Kunnathunadu Grama Pancha Committee which ensures the prevention polluting activities by the local people. Ground Water Department:As Groundwater resources of Kerala, 2 estimate a total number of 2 blo (Mulanthuruthiand Vadavakkodu) con
 (x) Rain water harvesting (xi) Maintaining minimum Environmental flow of river (xii) Plantation on both sides of the river (xiii) Setting up biodiversity parks on flood plains by 	(viii) Adopting good irrigation practices	under the Kadambrayarriver basin. All blocks in the river stretch are safe with st of groundwater extraction ranges from 25.3
Ground Water Department and Irrigation Department : : Not submitted(xii) Plantation on both sides of the river(xiii) Setting up biodiversity parks on flood plains by		to 68.01%
 (xi)Maintaining minimum Environmental flow of river (xii) Plantation on both sides of the river (xiii)Setting up biodiversity parks on flood plains by 	(x) Kain water harvesting	Ground Water Department and
(xiii)Setting up biodiversity parks on flood plains by	(xi)Maintaining minimum Environmental flow of river	·
	(xii) Plantation on both sides of the river	

ACTION PLAN FOR RIVER KADAMBRAYAR, KERALA SHORT TERM MEASURES

Short term plan

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining		
				(2) Manakkakkadavu					
2.1.2 C(ii)	Surveillance to restrict the dumping of wastes into river and its branches	KunnathunaduPanchayat and with the help of Police		Action completed. Informed that the PWD work progressing and hence the power is temporarily disconnected will reinstate immediately after the road work.	Camera operational	100%			
	(4) Canal joining Kadambrayar near Infopark Phasell								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining		
2. 2. 1E	Cleaning of thodu	Kerala Irrigation Department &	6 months	EE, Irrigation informed that the project will be implemented through Operation Vahini.Work started.		Manual cleaning for the year 2021-2022 started. 95%			

2.2.3 C(ii)				Manual cleaning for the year 2021-22 started. 95% completed Action completed. Installed cameras.		completed	Work compl eted
		anakkadavu to Kadambi raBund) inKadambrayai					
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining
A(a)	Restricting seepage of leachate of plastic dumped in the dumping yard(Bio- mining of legacy waste going on)	Kochi Corporation	January 2024	waste spread in sector 4,5,6 and 7 is now cleared and area recovered is about 10 acres that is 28% work is	the bio mining can be completed only in June. No major progress.		Completion of the work of bio mining by January 2024

	Bailing machine is reached in the site. Bio mining will start in November and will complete in next June .But Corporation had informed the company to complete the Bio mining before the March		

A(b)	Provide proper facilities for restricting the seepage of leachate(Construction of Leachate treatment Plant: Collection tank)	Kochi Corporation	April 2022	Selection notice was sent	The Kochi Corporation modified the DPR after incorporating the changes suggested by Suchitwa Mission and resubmitted to Suchitwa Mission for approval.	

	Provide proper facilities for collecting and treating leachate (Construction of leachate treatment plant)	Kochi Corporation	April 2023	Leachate started treating from 23.02.2022 at Brahmapuram Septage Treatment plant after its preliminary treatment in the ratio 4:1 (Septage:Leachate)Daily 20KL of leachate is treated at septage treatment plant.DPR prepared for the leachate treatment project	modified the DPR after incorporating the changes suggested by Suchitwa Mission and resubmitted to Suchitwa Mission for approval.	No progress	
			Act	tion plan by Gramapanc	hayath		
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining
E	Installation of CCTV camera at Manakkakadavu	Kunnathunadu	30.09.20 19	Completed	Action Completed	100%	
C(ii)	Cleaning of Thodu	Vadavukad-puthenkruze	6 months	-	Manual cleaning for the year 2021-2022 started.	95%	
C(ii)	Surveillance to restrict dumping of waste to the river and branches (with the help of Police)	Vadavukad-puthenkruze	2 months	Installed cameras. Action completed.	Camera operational.	100%	
			•	2. Long term Pla	n		
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining

4.5 C(ii)	Solid waste treatment facility at Brahmapuram (Construction of waste to energy plant)	Kochi Corporation	December 2023				
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4.6 A(b)	Restriction of illegal dumping of septage in to the river	Police	As soon as possible				
				4. REVISED ACTIO	NPLAN		
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining
3.1	Slaughter house and poultry waste Rendering plant	Thrikkakkara Municipality		The land identified and the land inspected by the sub- committee. The proposal submitted for council approval. Council not approved the proposal since land value is found higher than the market value. The proposal cancelled and municipality decided to give advertisement again.	No progress		Action pending
3.2	Sanitation facility and treatment of waste water inthe markets		2020-21	The Secretary informed that they have no adequate land for construction of waste			Action pending

	Treatment plant, Portable aerobic bins	2	2021-22	management facility in market.		
3.3	Provide facility for the treatment of sewage, sullage and garbage generated Proposed places for the installation of Aerobins (1) Municipal office compound (2) NGOquarters (3) Kakkanad Market Near Eechamukku TV- Centre Anganavadi	Thrikkakkara Municipality		No progress. Land has been identified near to NGO quarters for setting up aero bins and the proposal submitted for council approval. Market construction completed. The land identified near NGO quarters found inadequate. Requested Suchitwa Mission to prepare DPR for the waste management in market.	No progress.	
3.4	Providing facility for restricting discharge of waste water from the surrounding houses to the river			Survey continuing. DLTC Convener informed the municipality to submit the sanitation survey report.	Progressing Municipality not submitted report.	

			Survey reported to be Progressing. 1200 completed. Report of survey not submitted to DLTC.		
3.5	Providing effluent treatment plant for industries No.of industries :75 no.s	Thrikkakkara Municipality	Survey reported to beKSPCB is ensuring that the Progressing. 1200industries are operating completed. Report ofwith proper treatment survey not submitted tosystems. DLTC.		
3.6	Identification of illegal outlets into storm water drains and fine shall be imposed on such units – 30 units	Thrikkakkara Municipality	Action initiated The Municipality informed that their	Action initiated	Action pending
3.7	Biodegradable waste management Bio-Composter – 2000 No.s Thumboormuzhi aerobins - 4 No.s Portable biogas – 1500 No.s Ring compost – 500 No.s Napkin destroyer – 6 No.s Viability gap Fund	Thrikkakkara Municipality	Actions initiated to issue No progress notice to close the outlet.		
			5. MONITORING	·	

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining
4.1	River water quality monitoring – Monitoring of water quality	Kerala State Pollution Control Board	Ongoing; Monthly frequency	On going	monitoring progressing		
4.2	Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc Monitoring of establishments, service stations, flats, industrial units			On going	progressing		
				7. LONG TERM	M PLAN		
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining
5.1	Additional STP requirement DPR Preparation in 6 months (through consultants) To allot land, Government Procedure are ongoing		3 years	The Secretary informed action not being taken due to land constraints.	No adequate land. No progress.		Action to be initiate d.

5.2	Acquiring of land and rehabilitate families from the banks of River To allot land, Government Procedure are ongoing	District Collector, Thrikkakkara Municipality, Revenue Dept	5 years	-	-		Action to be initiate d.
			DESI	LTING AND DEVELOP	<u>EMENT</u>		
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining
5.3	Development package Inspection bund for Chithrapuzhaand Kadambrayar is included in this package. For this project, preliminary investigation of site which includes survey of land to know its availability for formation of side bund which is to be provided with tiles. The project also includes side protection	Irrigation department	3 years	No sanction obtained. No progress.	FS not obtained.		

	work of Chitrapuzha and Kadambrayar. Provision for handrail sat the edge of the bund is given. Overall cost comes to 25 Crore. The work is being proposed urgently and will be submitted to higher authorities for financial sanction.					
5.4	Desilting and development It includes clearing and removing water hyacinth of Kadambrayar ,Chitrapuzha and Edachirathodu near Infopark phase II. This is to be done periodically (every four months), depending on availability of fund.		(periodical cleaning -4 months x3)			
5.5	sheet piling and providing fencing Fencing is provided in Sl.no 5.3	Irrigation Department	1.5years	Financial sanction not obtained.	Financial sanction not obtained.	
5.6	Development of river basin It includes cleaning and	Irrigation Department	1.5years	Financial sanction not obtained.	Financial sanction not obtained.	

				ATE POLLUTION CONTR ement Rules, 2016; Bio-r		ment Rules 20	016
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% Works completed	Details of works remaining
6.1	Door-to-door collection and transportation of MSW 100% door to door collection Proposed Kerala Solid Waste Management Authority	Thrikkakkara Municipality Local bodies of Census Town		100% by 2023			
	Modern Solid Waste Treatment Plant Proposed Kerala Solid Waste Management Authority	Thrikkakkara Municipality (To allot land, Government procedure are ongoing) Local bodies of Census Town		Actions initiated to procure land.	No progress	Actions initiated to procure land.	

	Rendering plant for slaughter house/poultry wastes Proposed Kerala Solid Waste Management Authority	Thrikkakkara Municipality (To allot land, Government procedure are ongoing)	The land identified and the land inspected by th sub committee Final decision v be taken by Jun after the mode code of conduc	council ne approval. e. will ne el	Actions initiated to procure land.	
6.4	Common bio-medical waste treatment facility Proposed Kerala Solid Waste Management Authority	Health Department	CBWTF started Ambalamugha operated by KE	l,	Compl eted	
6.5	Regional sanitary landfill site identification and land acquisition Establishment and operation of Regional Sanitary Landfills Proposed Kerala State Waste Management Authority.	District Collector Local bodies	-			
			7.OTHERASPE	ECTS		

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining
7.1	Flood plain zone management and E- flow maintaining Flood plain zone management & E-flow maintaining cleaning &desilting, depending on availability of fund. During summer season Irrigation Department Provides temporary bund to prevent the salt water intrusion due to tidal effects. To maintain natural flow, sluice gate is provided. During the low tide, the shutter of the sluice gate is kept open to maintainminimum flow			It is included in the estimate of Removal of water hyacinth from Kadambrayar and Removal of water hyacinth from Edachira Thodu	FS not obtained		
7.2	Development of bio diversity parks inbanks	Thrikkakkara Municipality	1 st Phase 2020-21 2 nd Phase 2021-22				

STNCode	Sampling Date	Sampling Time	StnName	TypeWaterB ody	NameOf WaterBody
17	31.10.2022	10:50	Periyar at Eloor	River	Periyar River
1338	11.10.2022	10:50	Periyar at SDP Aluva	River	Periyar River
2334	13.10.2022	12:45	Periyar at Pathalam	River	Periyar River
2335	13.10.2022	10:45	Periyar at Kalamassery	River	Periyar River
3468	11.10.2022	11:10	Periyar at KWA Aluva	River	Periyar River
2337	01.10.2022	11:20	Kadambrayar At Brahmapu	River	Kadambrayar River
2338	01.10.2022	10:50	Kadambrayar At Manackak	River	Kadambrayar River
1573	01.10.2022	11:50	Chithrapuzha At Irumpanan	River	Chithrapuzha River

					Va	lues				
SI. No.	Parameters	Station Code								
		17	1338	2334	2335	3468	2337	2338	1573	
1	Temperature, ⁰ C	29	27	29	28	27	28	28	28	
2	Dissolved Oxygen, mg/l	6.4	8.5	7.5	6.8	7.8	4.4	4.5	3.7	
3	pH	6.5	6.3	7.7	6.8	6.6	6.6	6.9	6.2	
4	Conductivity, µmhos/cm	85	48	667	51	47	159	136	412	
5	BOD, mg/l	1.6	2.8	1.2	1.4	0.4	2.9	2.5	2.8	
6	Nitrate-N, mg/l	0.63	0.16	0.07	0	0.01	0.2	0.12	2.48	
7	Turbidity, NTU	1.1	0.6	2.1	1.2	0.7	0.6	1.3	1.8	
8	Total Alkalinity, as CaCO3	13	18	20	12	14	30	30	44	
9	Chloride, mg/l	15	6	215	8	6	29	24.55	92	
10	COD, mg/l	8.8	4.8	12	4.8	2.4	10.4	8	13.6	
11	TKN, mg/l	0.85	0.25	0.2	0.02	0.05	0.35	0.5	3.2	
12	Ammoniacal-N, mg/l	0.09	0.01	0.03	0.01	0.01	0.01	0.32	1.47	
13	Total Hardness, as CaCO3 mg/l	19	20	80	11	16	35	32	92	

14	Calcium, as CaCO3 mg/l	14	18	50	7	12	18	15	50
15	Magnesium as CaCO3, mg/l	5	2	30	4	4	17	17	42
16	Sulphate, mg/l	3.63	0	4.98	1.66	0.1	6.43	1.56	27.49
17	Sodium, mg/l	7.8	3.1	112	4.2	3.16	15.23	12.76	48.5
18	Total Dissolved Solids, mg/l	47	31	410	30	28	95	78	252
19	Total Fixed Solids, mg/l	36	24	320	24	22	75	60	200
20	Total Suspended Solids, mg/l	16	14	30	16	12	25	22	28
21	Phosphate, mg/l	0.05	0.25	0.04	0.07	0.07	0.06	0.08	1.37
22	Boron, mg/l	0.04	0.05	0.24	0.03	0	0.1	0.05	0.21
23	Potassium, mg/l	0.96	1.19	4.98	1.08	1.03	2.76	2.99	3.06
24	Fluoride, mg/l	0.12	0.06	0.06	0.07	0.06	0.11	0.1	4.46
25	Total Coliform, MPN/100 ml	7000	2700	4100	2600	310	1300	4000	3300
26	Feacal Coliform, MPN/100 ml	3400	1500	2300	1400	200	920	2700	2100
27	Feacal Streptococci, MPN/100ml	220	79	210	120	24	94	170	120

National Mission for Clean Ganga

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

RIVER KARUVANNUR, THRISSUR

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

6.1	Progress Report may be comprised of details along with completion timelines on:(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.			
	(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline			
	(III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status			
	 (iv)<u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline 			
	 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; 			
	(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic			

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

ACTION PLAN FOR RIVER KARUVANNUR, KERALA SHORT TERM MEASURES

No. (as per Action Plan)	Activity		Implementing agency Thi	Time line rukuzhy thodu	Progress in the month of September 2022	Progress in the month Of October 2022	Progress in the month of November 2022	% works complete d	Details of works remainin g
A(a)(iv)	river and its	s branches	Vallachira Panchayat with the help of Police		- sî	-	-	10	
Ε	Cleaning an	d desilting of canal	Irrigation Department and Vallachira Panchayat	4months	ട ന്റെ ഭൂരിഭാ ഗം നീളവു ം നിലവി ലില്ല എന്നു ം ശേഷി ക്കുന്ന ഏകദേ ശം 15 മീറ്ററേ ാളം വരുന്ന	ടി തോട ിന്റെ ഭൂരിഭ ാഗം നീള വും നില പ്പിലി ല്ല എന്ന ൂം ശേ ഷി ക്കു ന്ന എക	ടി തോടി ന്റെ ഭൂരിഭാ ഗം നീളവ ും നിലവ ിലില്ല എന്നു ം ശേഷി ക്കുന്ന ഏക േദശം 15 മീറ്ററേ	10 0	ni

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			Thodu ne	ear Kadalasser	ry bridge	ൂർ അറി യിച്ചി ട്ടു□്.				
A(b)		cation of pollution sources and surveillanc rict dumping of wastes	e Vallachira, Pudukad & Nenmanikkara Panchayats	1 month	Ongoing	Ongoing	Ongoi ng	10 0	0	
E	Cleanin	ng and desilting	Irrigation Department and Vallachira Panchayat	4months	ths ടി പ്രവ്വത്തിയ്ക്കായി 2.7 ലക്ഷം രൂപയുടെ എസ്റ്റിമേറ്റ് ജ്വശരല 3.0 ൽ തയ്യാറാക്കി 15/09/2022 ന് ചീഫ് എഞ്ചിനീയർ, ജലസേചനവും ഭരണ തിരുവനന്തപുരത്തിന് സാമ്പത്തികാനുമതിയ്ക്കായി സമർഷിച്ചിട്ടു് .					
E	Cleanin	ng and desilting	Irrigation Department	4months	തയ്യാറാക്കി 15/0	എഞ്ചിനീയർ, ജല	റ്റിമേറ്റ് ജ്വശരല 3.0 ൽ പസേചനവും ഭരണവും 1 സമർഷിച്ചിട്ടു⊡് .			
			nkilikayal tho	du						
E	Cleaning and desilting		Irrigation Department and Vallachira Panchayat	4months	ടി പ്രവ്വത്തിയ്ക്കായി 15.00 ലക്ഷം രൂപയുടെ എസ്റ്റിമേറ്റ് ജ്വശരല 3.0 ൽ ത 15/09/2022 ന് ചീഫ് എഞ്ചിനീയർ, ജലസേചനവും ഭരണവും തിരുവനന്തം സാമ്പത്തികാനുമതിയ്ക്കായി സമർഷിച്ചിട്ടു—് .നടഷിലാക്കുന്നതിന് ഫ—് ല					

				Kadathodu					
A(b)		l ication of pollution sources and surveillance rict the dumping of wastes	Vallachira & Nenmanikkara Panchayats	1 month	Ongoing	Ongoing	Ongoi ng	10 0	0
E	Cleaning and desilting		Irrigation Department	4months	ടി പ്രവ്വത്തിയ്ക്കായി 9.5 ലക്ഷം രൂപയുടെ എസ്റ്റിമേറ്റ് ജ്വശരല 3.0 ൽ തയ്യാറാക്കി 15/09/2022 ന് ചീഫ് എഞ്ചിനീയർ, ജലസേചനവും ഭരണ തിരുവനന്തപുരത്തിന് സാമ്പത്തികാനുമതിയ്ക്കായി സമർഷിച്ചിട്ടു് .				റവും
			Main Str	eam –along Ka	ruvannur				
A(a)(iv)		ic Surveillance to restrict the dumping of into river and imposing Fine	Irinjalakkuda Municipality, Police Dept.		Presently no such dumping of waste. Square inspection ongoing well including night squad	Presently no such dumping of waste. Squad inspection ongoing well including night squad.	Presently no such dumping of waste. Squad inspection ongoing well including night squad.		
A(b)	Sanitat	tion Survey	lrinjalakkuda Municipality	3 Months	100% Completed	100% Complete d	100% Completed		
A(b)	Closing river	g of all un authorized outlets leading to the	lrinjalakkuda Municipality		Inspection is going on. There is no unauthorized outlets	Inspection is going on. There is no unauthorize d outlets	Inspection is going on. There is no unauthorized outlets		

				leading to the	leading to	leading to	
				river.	the river.	the river.	
A(b)	Closing of all un authorized outlets in the drain	Irinjalakkuda		There is no	There is	There is no	
	leading to the river	Municipality		unauthorize	no	unauthoriz	
				d outlets in	unauthoriz	ed outlets	
				the drain	ed outlets	in the	
				leading to	in the	drain	
				the river.	drain	leading to	
					leading to	the river	
					the river		
E	Boards to display slogans against littering waste in	Irinjalakkuda	6 months	Installed	Installed	Installed	
	various Places other IEC Activities Like posters,	Municipality		boards along	boards	boards along	
	notices and classes			Karuvannur	along	Karuvannur	
				river side	Karuvannur	river side	
				against	river side	against	
				littering	against	littering	
				waste and	littering	waste and	
				animal bath.	waste and	animal bath.	
				Board	animal	Board	
				installation	bath.	installation	
				process is	Board	process is	
				going on in	installation	going on in	
				various	process is	various	
				places of	going on in	places of	
				municipal	various	municipal	
				area. We	places of	area. We	
				used tp	municipal	used tp	
				conduct	area. We	conduct	

					<u></u>	used to			
					surveys,	used tp	surveys,		
					distributed	conduct	distributed		
					notices to all	surveys,	notices to all		
					the houses	distributed	the houses		
					near to the	notices to	near to the		
					riverside.	all the	riverside.		
						houses near			
						to the			
						riverside.			
				Monitoring					
A(a)(iv)	River w	ater quality monitoring	KSPCB	Ongoing;	Monitoring is	Monitoring	Monitoring is		
				monthly	going on	is going on	going on		
				frequency	September	October	November		
					monthly basis	monthly	monthly		
						basis	basis		
A(b)	Inspect	ion & effluent quality monitoring of the Flats,	КЅРСВ	Ongoing	Going on	Going on	Going on		
	-	ial units, service stations, hospitals, hotels etc			September	October	November		
					monthly basis.	monthly	monthly basis.		
						basis.			
				ong Term Plan	<u> </u>				
	r			-		1			
A(b)	Sewage		Vallachira Grama	1 yr	0	Nil	Nil	100	0
			Panachayat						
A(b)	Constru	uction of FSTP and STP	Irinjalakkuda	2 years	Constructio	Constructi	Constructio		
			Municipality		n of STP	on of STP	n of STP		
					plant at	plant at	plant at		
					General	General	General		

C(ii)	Setting up of a modern crematorium at	Vallachira Grama	2 years	Hospital, Irinjalakuda – DPR approved by Suchitwa Mission	Hospital, Irinjalakud a – DPR approved by Suchitwa Mission No fund	Hospital, Irinjalakuda – DPR approved by Suchitwa Mission No Fund		100
C(II)	Mandarakkadavu, Arattupuzha	Panachayat			No fund	Noruna		100
C(ii)	Solid waste treatment facility	Vallachira Grama Panachayat	2 years			100 %	Mini MCF	
C(ii)	Construction of Windrow composting plant	Irinjalakkuda Municipality	2 years	Windrow Compost plant having 4 ton capacity. Construction has been already completed. Presently it is functioning well and producing Bio manure for sale.	Compost plant having 4 ton capacity. Constructio n has been already completed. Presently it is functioning well and	Construction has been already completed. Presently it is		

E	Rejuvenation of Kanathodu	Irrigation Department	1 year	തയ്യാറാക്കി 15/09,	/2022 ന് ചീഫ് എ	ൂപയുടെ എസ്റ്റിമേറ്റ് ജ്വശരല 3.0 ൽ ഞ്ചിനീയർ, ജലസേചനവും ഭരണവും നുമതിയ്ക്കായി സമർഷിച്ചിട്ടു—് .	
E	Installation of CCTV for Surveillance to prevent the	Irinjalakkuda	2 years	Police	Police	Police	
	dumping of waste in to the river	Municipality		Department	Department	Department	
				installed	installed	installed	
				CCTV and	CCTV and	CCTV and	
				currently	currently	currently	
				functioning	functioning	functioning	
				Near	Near	Near	
				Karuvannur	Karuvannur	Karuvannur	
				Bridge	Bridge	Bridge	

ACTION BY GROUND WATER DEPARTMENT

SI. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Progress in the month of September 2022	Progress in the month of October 2022	Progress in the month of November 2022	% works completed	Details of works remaini ng
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	According to the latest GEC report there is no critical / over exploited blocks in Thrissur Dt.	According to the latest GEC report there is no critical / over exploited blocks in Thrissur Dt.	According to the latest GEC report there is no critical / over exploited blocks in Thrissur Dt.		
2	B(ii)	Ground water recharging / rain water harvesting					

3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps	Water level data collected from GWD observation wells.	Water level data collected from GWD observation wells.	Water level data collected from GWD observation wells.		
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices	-	-	-	-	-

ACTION PLAN BY GRAMAPANCHAYATH

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	of October	Progress in the month of November 2022	% works completed	Details of works remaining
С		Vallachira Grama Panchayath	1 year	Nil	Nil	Nil	1000m	500m
С	Setting up of Nursery for Bamboo seedlings in Kadalassery	MGNREGS	31.03.2020	TS SAN CTIO NED, BUT NOT PUBL IC PLAC	SANCTI ONED, BUT NOT PUBLIC PLACE	TS SANC TIONE D, BUT NOT PUBLI C PLACE	25	75

				E				
C	Side protection of Manalippuzha with organic materials available locally	MGNREGS	31.03.2020	Nil	Nil	Nil	25	75
С	Side Protection of Manalippuzha with Bamboo plants	MGNREGS	31.03.2020	Nil	Nil	Nil	100	0
С	Deepening & Protecting Muttikkal Thodu by	MGNREGS	31.03.2020	600	600 m	600	100	0
	Spreading Geo Textiles			m		m		
С	Cluster 2-Kurumaly puzha sub river bed -Project	Puthukkad	1 year	Docu	Docume	Docu	100	Docu
	document preparation	Panchayath		ment	ntation	ment		ment
				ation	complet	ation		ation
				com	ed	com		compl
				plete		plete		eted
				d		d		
C	Manalippuzha River Protection-Jala Raksha, Jeeva	Nenmenikkara	31.03.2020	3.5	3.5	3.5	50 %	3.5
	Raksha, Survey and Tree Plantation	Grama Panchayat		km	survey	km		k.m.
				surv	out of 7	surve		surve
				еу	k.m.hav	y out		y yet
				out	e been	of 7		to be
				of 7	complet	k.m.		compl
				k.m	ed	have		eted
				have		been		
				been		compl		
				com		eted		
				plete		and		

				d		surve	
				and		v	
				surv		, posts	
				ey		have	
				posts		been	
				have		fixed.	
				been			
				fixed			
С	Manalipuzha River protection	MGNREGS	31.03.2020	3.5	3.5 km	3.5	As
				km	survey	km	surve
				surv	out of 7	surv	y did
				еу	k.m	ey	not
				out	have	out	compl
				of 7	been	of 7	ete
				k.m	complet	k.m.	
				have	ed and	have	
				been	survey	been	
				com	posts	com	
				plete	have	plete	
				d	been	d	
				and	fixed.	and	
				surv		surv	
				ey		ey	
				posts		posts	
				have		have	
				been		been	
				fixed		fixed	

A(b)	Protection and reconstruction and protection of Paliyekkara Kayalathod	MGNREGS	31.03.2020	COM PLET ED	COMPL ETED	COM PLET ED		COMPL ETED
A(b)	Reconstruction and protection of Paliyekkara Karama Thodu	MGNREGS	31.03.2020	COM PLET ED		COMP LETED	100 %	COMP LETED

KARUVANUR

Date of sampling

03.11.2022

05.11.202								
SL. NO	PARAMET ER	UNIT	КТ	MRK	KND	MDK	THR	KRV
		•••••						
1	PH		7.7	7.2	7	7.6	6.79	7.8
2	EC	µ/cm	67.23	66.08	107.5	127.1	72.17	66.13
3	BOD	mg/L	2.1	2.46	2.77	1.6	1.01	1.8
4	DO	mg/L	6.25	6.23	6.13	7.23	6.03	6.89
5	COD	mg/L	4	4	4	8	4	4
		CFU/100						
6	тс	ml	500	600	500	600	500	400
		CFU/100						
7	FC	ml	150	150	250	250	350	250
		CFU/100						
8	FSC	ml	NIL	NIL	10	10	NIL	10

KT - KANAKKAN KADAVU, KARUVANNUR

MRK - NEEROLI THODU

KND - KANATHODU, KARUVANNUR

MDK - MUTTIKKAL DAM, KARUVANNUR THR- THIRUKUZHI, KARUVANNUR KRV - PAINKILIKAYAL THODU, KARUVANNUR

National Mission for Clean Ganga

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

RIVER KECHERY, THRISSUR

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

6.1	Progress Report may be comprised of details along with completion timelines on:(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.			
	(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline			
	(III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status			
	 (iv)<u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline 			
	 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; 			
	(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic			

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

ACTION PLAN FOR RIVER KECHERY, KERALA

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of September 2022	Progress in the month of October 2022	the month of November	% works complete d	Details of works remaining
	WADAKKENCHE	 RY RIVER -SHO	RT TERM M	EASURES		2022		
A(b)	Identification of illegal outlets from houses and	Wadakkanchery	Completed		Pollutin	Polluti		
	shops/other establishments in town and imposing	Municipality,			g	ng		
	fine	Ayyakali Urban			Sources	Sourc		
		Employment			&	es &		
		Guarantee			Illegal	Illegal		
		Scheme & health			outlets	outlet		
		squad			were	s		
					identifi	were		
					ed,	identif		
					notice	ied <i>,</i>		
					issued	notice		
					as per	issued		
					Kerala	as per		
					Munici	Kerala		
					pal Act	Munic		
					and	ipal		
					remove	Act		
					d.	and		

				Doing regular inspecti on.	remov ed. Doing regula r inspec tion.		
E	Installat ion of CCTV s on the bank of river in town	Wadakkanchery Municipality	31.03.2022		It has been infor med that steps have been take n to obtai n appr oval from the coun cilil to get	0%	Work not started due to scarcity of Municipal fund

C(ii) C(ii) C(ii)	Resource recovery facility Renovation of existing biogas plant	Wadakkanchery Municipality Wadakkanchery Municipality Wadakkanchery Municipality	Completed Completed Completed			fund s for setti ng up CCTV		Presently functionin g well
			Monitoring					
A(a)(iv)	River water quality monitoring	KSPCB	Monthly Monitori ng in progress	Analysis report for the month of September submitted	for the month of October enclosed herewith	Analysis report for the month of November enclosed herewith		Continuing
A(b)	Inspection & effluent quality monitoring of the Flats, industrial units, service stations, hospitals,hotels etc		Ongoing	Ongoing	Ongoing	Ongoing	(Continuing

		Lo	ng Term Plan					
E	Identification and cleaning of polluted drain	sIrrigation Dept	30-03-2022	Estima	Estimat			Estimat
	reaching wadakkancheri river			te	e			е
				submit	submitt			submitt
				ted for	ed for			ed for
				fund	FS.			FS.
A (b)	Common STP	Wadakkanchery	March 2022		Topogr	Topographic		Site for one
		Municipality,			aphical	al survey		STP identified.
		Kerala			survey	completed .		Applied for
		Infrastructure			comple	Site		NOC from
		Investment Fund			ted .	identified		District
		Board			Site	and report		Collector
					identifi	submitted		(Land is Puzha
					ed and	before Hon.		Puramboke
					report	District		and Irrigation
					submitt	Collector for		Department
					ed	getting land.		Canal
					before			Puramboke)
					Hon.			
					District			
					Collect			
					or for			
					getting			
					land.			
C(iii)	Windrow composting at Kumbalangad yard	Wadakkanchery	March 2022		Construction of	Construction	90%	Construction of
		Municipality			windrow	of windrow	work	windrow
					compost plant	compost	comple	compost plant
					work completed	plant work		work completed

				and trial run started	completed and it will be	ted	and trial run started
					done efficiently within two weeks.		
C(ii)	Modern slaughter House	Wadakkanchery Municipality, Kerala Infrastructure Investment Fund Board		Lack of suitable site for the project	Lack of suit able site for the proj ect		Lack of suitable site for the project
E	Forestation, desilting & deepening of Wadakkanchery river and fitting river side with coir geo net		desilting deepening of Wadkanchery River 3 km in Municipal area completed 7655m ³ desilt removed	Fitting river side with Coir Geo Net. Awaitin g Munici pal Council Decisio	Fitting river side with Coir Geo Net. Awaiting Municipal Council Decision for fund allocation		Fitting river side with Coir Geo Net. Awaiting Municipal Council Decision for fund allocation

				n for		
				fund		
				allocati		
				on		
Rain water harvesting	Wadakkanchery	Ongoing work				
	Municipality					
	Wadakkanchery	Ongoing work				
	Municipality					
	Wadakkanchery	Ongoing work				
,						
	Municipality					
Regulating activities in flood plain zone, protection	Wadakkanchery	30-03-2022	As part			
	Municipality		of the			
			action			
			plan			
			prepar			
			ed in			
			relatio			
			n to			
			the			
			revival			
			of			
			Kecher			
			i River,			
			the			
			plastic			
			wastes			

		44.44		
		that		
		have		
		fallen		
		into		
		the		
		river		
		have		
		been		
		includ		
		ed in		
		the		
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		ntee		
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		ed.		
		91374		
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		rupees		
		were		
		spent		
		in this		
		work.		
		Garba		
		ge that		
		fell		

	1	1	1	1	1	1
			due to			
			rain			
			was			
			remov			
			ed in			
			many			
			places.			
Greenery developmentPlantation plan. Plantation	Wadakkanchery	30-03-2022	Bambo			
	Municipality		0			
parks on flood plains by removing encroachment			sapling			
			s were			
			plante			
			d on			
			both			
			sides			
			of the			
			river			
			throug			
			h			
			"Wada			
			kanch			
			erry			
			riversi			
			de			
			affores			
			tation"			
			15597			
				1		1

				6			
				rupees			
				were			
				spente			
				d for			
				this			
				work.			
				The			
				garbag			
				e in			
				the			
				flood-			
				prone			
				areas			
				has			
				been			
				remov			
				ed and			
				the			
				flow			
				has			
				been			
				facilita			
				ted.			
		Short tern	n plan (Kecher	i river)	1	I	
					T		
E	Installation of CCTV in different locations along	PWD Electronic			Progress has not		Inc
	river side	division		not been	been reported		lud
							ing

				reported		20
						22-
						23
						pr
						oje
						ct
E	Fixing Boards	Choondal Grama	Completed			Board
		Panchayat				fixed
						(includin
						g 2021-
						22
						project)
A(a)(iv)	Surveillance to prevent flow of sewage /effluent to	Choondal Grama	Ongoing			Action
	river	Panchayat				taken
A(b)	Stoppage of effluent from residential apartment	Choondal Grama	Action			Stop
	(Shajan's flat) and pig farm into the river	Panchayat	taken			Memo
						Had been
						Given to
						Concerne
						d persons
		Long Tern	n Plan (Kecher	i river)		I
E	Side protection by fixing coir geo nets	Choondal Grama	Not started	Not started	Prim	
	. , , , , , , , , , , , , , , , , , , ,	Panchayat			ary	
					actio	
					n	
					start	

					ed	
E	Survey process of Kechery river portion belong to Choondal Grama Panchayat to mark the boundary and encroachment	Revenue Department	completed	completed	com plete d	
E	Laying of survey station	Choondal Grama Panchayat	completed	compl eted	Completed	
E	Digital maping and seminar on pollution control	Forestry College, Vellanikkara	31/05/2020	Not starte d	completed	

IRRIGATION DEPARTMENT

No.	Activity	Implementing	Time line	Progress in	Progress in the	Progress in	% works	Details of
		agency		the month of	month	the month	complete	works
				September	of October	of	d	remainin
				2022	2022	November		g
						2022		
1	Issues relating to E-flow, maintaining minimum	Irrigation	30-03-2022	കേച്ചേരി	കേച്ചേരി പുഴയുടെ	കേച്ചേരി		
	environmental flow of river(by having watershed	Department		പുഴയുടെ	പാരിസ്ഥിതിക	പുഴയുടെ		
	management provisions)			പാരിസ്ഥിതിക	നീരൊഴുക്ക് പഠനം	പാരിസ്ഥിതിക		
				നീരൊഴുക്ക്	(E-flow)	നീരൊഴുക്ക്		
				പഠനം (E-flow)	പൂർത്തിയാക്കി	പഠനം (E-		
				പൂർത്തിയാക്കി	റിഷോർട്ട്	flow)		
				റിഷോർട്ട്	18/05/2022	പൂർത്തിയാക്കി		
				18/05/2022	ചീഫ് എഞ്ചിനീയർ,	റിഷോർട്ട്		
				ചീഫ്	ജലസേചനവും	18/05/2022 ຕັ		
				എഞ്ചിനീയർ,	ഭരണവും,	ചീഫ്		
				ജലസേചനവും	തിരുവന്തപുരത്തിന്			

	ഭരണവും,	സമർഷിച്ചിട്ടു🗌 .	എഞ്ചിനീയർ,	
	തിരുവന്തപുരത്തി		ജലസേചനവും	
	ന്		ഭരണവും,	
	സമർഷിച്ചിട്ടു🗌 .		തിരുവന്തപുര	
			ത്തിന്	
			സമർഷിച്ചിട്ടു🗌 .	

ACTION BY GROUND WATER DEPARTMENT

SI. No.	Ref para item nos as per NGT Order no.673/2018 dated 20.09.2018	Activity	Progress in the month of September 2022	Progress in the month of October 2022	Progress in the month of November 2022	% works completed	Details of works remaini ng
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	According to the latest GEC report there is no critical / over exploited blocks in Thrissur Dt.	According to the latest GEC report there is no critical / over exploited blocks in Thrissur Dt.	According to the latest GEC report there is no critical / over exploited blocks in Thrissur Dt.		
2	B(ii)	Ground water recharging / rain water harvesting					

3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps	Water level data collected from GWD observation wells	Water level data collected from GWD observation wells	Water level data collected from GWD observation wells	
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices				

No.	Activity	Implementing	Time line	Progress	Progress in the month of		% works	Details of works
(as per		agency		in the	October 2022		completed	remaining
Action Plan)				month of				
				Septembe				
				r 2022				
						Progress in the month of		
						November 2022		
C	Punarjani	Choondal Grama	Completed					Flood Wastes
	Kecherri	Panchayat						from the river
	river							has been
								removed and
								made water flow
								easily which
								reduced chances

						of flood .
C(ii)	Surveying of river side, eviction and planting trees	Choondal Grama Panchayat				Survey completed
С	Side Protection	Choondal Grama Panchayat	Completed			
С	Bio fencing related to river bank protection – water and soil Conservatio n project ward 3,4,7	MGNRES	Not started			

	KECHERI RIVER										
	Date of sampling -11.11.2022										
SL. NO	PARAMETER	UNIT	VAD1	VAD2							
1	рН	-	7.88	7.53							
2	Electrical Conductivity	μs/cm	123.2	110.7							
3	BOD	mg/L	2.4	0.78							
4	DO	mg/L	6.98	7.02							
5	COD	mg/L	4	12							
6	тс	CFU/100ml	200	400							
7	FC	CFU/100ml	50	150							
8	FSC	CFU/100ml	NIL	10							
VAD1	L - WADAKKANCHERY PUZ KEC	HA (WADAKKANC HERY	HERY BRID	GE),							
VAD2 -	WADAKKANCHERY PUZH	A(CHALIPPADAM	ROAD), KE	CHERY							

National Mission for Clean Ganga

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

RIVER PUZHAKKAL, THRISSUR

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

6.1	Progress Report may be comprised of details along with completion timelines on:(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.	
	(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	
	(III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status	
	 (iv)<u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline 	
	 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; 	
	(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic	

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

ACTION PLAN FOR RIVER PUZHAKKAL, KERALA SHORT TERM MEASURES

No.	Activity	Implementin	Time	Progress in	Progress in		%	Details of works
(as per		g agency	line	the month of	the month	Progress in the	works	remaining
Action				September	of October	month of	comple	
Plan)				2022	2022	November 2022	ted	
A(b)	Identification of illegal outlets into the Panchikkal	Thrissur	3		0	0	8	
	-	Corporation	month				7	
			s				%	
A(b)	Stoppage of discharge of waste water from the	Thrissur	6	3	5	6	1	0
	surrounding houses and institutions to the drains	Corporation	month				0	
	which leads to Panchikkal thodu		s				0	
A(b)	Ensure adequate treatment facility is provided for	Adat Grama						Instructio
	waste water and solid waste generated from Sri	Panchayat						n
	Dharma Sastha temple situated on the banks of							has been
	the river							provide
								to
								temple
								authoritie
								S
								for
								constructi
								on
								of waste
								disposal

							facilities accordanc e with swm2016
E	Desilting of Karakattuchal	Irrigation Department	4 month s	ടി പ്രവ്യത്തി ക്കായി 10 ലക്ഷം രൂപയുടെ ട എസ്റ്റിമേ റ്റ് പ്രൈസ് 3 യിൽ തയ്യാറാ ക്കി പ്രഷോസ ൽ സാമ്പത്ത 1കാനുമ തി ലഭിക്കു നനതിനാ യി സുപ്ര്രി ങ് എഞ്ഞിനീ യർ, മൈനർ ഇറിഗേഷ ൻ	ടി പ്രവ്യ ത്തിയ് ക്കായി 10.00 ലക്ഷം രൂപയ 205 എസ്റ്റിേ ച്ച് ച്ചിന് എഞ്ചി നീയർ, ജലം സചന വും ഭരണ വും ഭരണ വും	ടി പ്രവൃത്തിയ്ക്കാ യി 10.00 ലക്ഷം രൂപയുടെ എസ്റ്റിമേറ്റ് Price 3.0 ൽ തയ്യാറാക്കി 15/09/2022 ന് ചീഫ് എഞ്ചിനീയർ, ജലസേചനവും ഭരണവും തിരുവനന്തപു രത്തിന് സാമ്പത്തികാന ുമതിയ്ക്കായി സമർഷിച്ചിട്ടു	

			സെൻട്ര ൽ സർക്കി ൾ എറണാ കുളത്തി നും, സുപ്ര⊡ി ങ് എഞ്ചിനീ യർ, ഇറിഗേഷ ൻ സെൻട്ര ൽ സർക്കി ൾ, തൃശ്ശൂരിന ും സമർഷി ച്ചിട്ടു⊡്. പ്രവ്യത്തി നടഷിലാ ക്കുന്നതി ന് ഫ⊡് ലദ്യമായി ട്ടില്ല.	ുരത്തി ന് സാമ്പ ത്തികാ നുമതി യ്ക്കാ യി സമർ ഷിച്ചിട്ട ു⊡്			
E	Desilting of Panchikkal thodu	Irrigation Department	4 _{month} Work _s completed	Work completed	Work completed	100	
E	Desilting of Kurinjikkal thuruth	Irrigation Department	4 month	Estimate submitted			

E	Desilting of Muppuzha(Cleaning and deepening of feeder canal from railway bridge near Vanchikulam to diversion of Karanchira and Enamakkal feeder canal near Nedupuzhakadavu)	Irrigation Department	s 4 month s	Work compl eted	for fund 100% work com plete d	100% work completed	1 0 0	
E	Side protection, desilting and deepening work of vanchikulam thodu at Poothole of length about 40 km (work in progress).	Thrissur Corporation	3 month s	500 meter side protec tion wall compl eted. 642 meter protec tion wall propos ed and work in progre	550 mete r side prote ction wall com plete d. 642 mete r prote ction wall prop osed and work in progr	660 meter side protection wall completed. 460 meter protection wall proposed and work in progress.		

				SS.	ess.			
				55.	C35.			
E	Annual desilting, cleaning of main drains and canals	Thrissur	3	195	195	195 Nos.		
_			- month		Nos.	Works are		
			s	Works	Work	proposed		
			5	are	s are	for thodu		
						cleaning		
				propos ed for	prop osed	works are		
				thodu	for	completed		
				cleanin	thod			
				g	u			
				works	clean			
				are	ing			
				compl	work			
				eted	s are			
					com			
					plete			
					d			
			Moni	toring				

A(a)(iv)	River water quality monitoring Inspection & effluent quality monitoring of the Flats,	KSPCB	Ongoing; monthly frequency Ongoing	Analysis report for the month of September submitted Ongoing	Analysis report for the month of October submitted Ongoing	Analysis report for the month of November enclosed herewith Ongoing	Continuing
	industrial units, service stations, hospitals, hotels etc						
			Long Term Plan				l
A(b)	Ensuring installation of treatment facilities for at least 50% of the identified establishments	Thrissur Corporation	18 months				
A(b)	100% completion of treatment facilities for targeted institutions/ buildings	Thrissur Corporation	24 months				
A(b)	Construction of a drain 40 km with covering slabs to avoid the direct disposal of waste in to the open drain	Thrissur Corporation	24 months	34.65 KM o drain work and 5.705 KM o cover ng slabs comp leted and 50 More work prop	f KM of drain work and 5.80 f KM of i coveri ng slabs compl eted and More works propo	of drain work and 5.85 KM of covering slabs completed and More works proposed under annual plan 2022-	

			sed 48 numb ers of work comp leted.	and 48 numbe rs of		
A(b) Construction of a drain 9000 n to avoid the direct disposal of drain	n with covering slabs Thrissur waste in to the open Corporation	24 months	34.6 5 KM of drain work and 5.70 5 KM of cover ing slabs com plete d and	35.05 KM of drain work and 5.80 KM of coveri ng slabs compl eted and More works propo sed	35.30 KM of drain work and 5.85 KM of covering slabs complete d and More works proposed under annual plan 2022-23 and 46	

				More	annua	of work		
				work	l plan	complete		
				prop	and	d		
				osed	48			
				48	numb			
				num	ers of			
				bers	work			
				of	compl			
				work	eted.			
				com				
				plete				
				d				
A(b)	Construction of sewage treatment plant of 100 KLD and 360 KLD at Ramavarmapura m and District Hospital, Thrissur in Amrut Project	Thrissur Corporation	24 months			Trea Ram	1) 100KLD Septage Treatment Plant at Ramavarmapuram, Thrissur	
						has been this pro- No. 5/2 dated 0 Rs. 3.50 for Rs. 3 technica constitu sewerag Selectio been iss	strative Sanction n accorded for ject vide GO (Rt) 018/LSGD 1/01/2018 for 0Cr.TS accorded 3.10 Cr from the al committee uted for AMRUT ge projects. n memo has sued to M/s Cco Water	

			LSGD for revised
			Technical sanction.
			2. 360 KLD Sewage
			Treatment Plant for
			General Usersitel Theirsen
			Hospital,Thrissur
			Administrative Sanction
			has been accorded for
			this project vide GO (Rt)
			No. 5/2018/LSGD dated
			01/01/2018 for Rs.
			3.52Cr.TS accorded for
			Rs. 3.52Cr from the
			technical committee
			constituted for AMRUT
			sewerage projects.

	Work has been awarded
	to M/s Green Eco Water
	Systems, Hyderabad.
	Agreement executed on
	14/10/2020. Consent to
	establish obtained from
	PCB on 17/12/2020.
	Even after conducting
	several meetings with
	the contractor,
	contractor has not
	started the work.
	Hon.Council dated
	29.01.2022 decided to
	terminate the contract
	under risk and cost of
	the contractor and also
	to black list the
	contractor. It has been
	also decided by the
	council to invite limited
	tender from accredited

						agencies	s per rules.
						_	-
							chedule of
						rate chang	ged from
						approved	estimate.
						Corporatio	on Council dtd.
						31.08.202	2 approved
						the recast	ed estimate
						amounting	g to Rs. 4.50 cr
						and the sa	me has been
						submitted	to CE, LSGD
						for revised	d technical
						sanction.	SLTC dtd.
						22.09.202	2
						recommen	nded the
						revision of	f AS from 3.52
						cr. to 4.50	cr. and SHPSC
						dtd. 27.10	.2022
						recomme	nded for
						revised ad	mistrative
						sanction.	
A(b)	Constructing decentralised sewerage scheme at	Thrissur	24 months	Revis	Revisi		2.50 MLD :
	Vachikulam covering most populated 7 divisions of			ion	on		Vide GO(Rt)
	Thrissur Corporation and more than 10000 houses &			esti	estim		No.

institutions	mate	ate as	1926/2022/L
	as	per	SGD dtd.
	per	struct	08.08.2022,
	struc	ural	the
	tural	veting	Government
	vetin	submi	constituted
	g	tted	a committee
	subm	for	consisting of
	itted	revise	Principal
	for	d TS	Director,
	revis	at	LSGD,
	ed TS	Chief	District
	at	Engin	Collector,
	Chief	eers	Thrissur and
	Engin	Office	mission
	eers	TVM	director,
	Offic		AMRUT to
	е		reassess the
	TVM.		nature of
			the
			proposed
			land for the
			2.50 MLD
			STP site
			inspection
			and meeting
			of the
			committee
			was held on

			20.08.2022.
			The details
			along with
			the Principal
			Director,
			LSGD's
			note on the
			matter were
			submitted to
			the Hon'ble
			Chief
			Secretary's
			office on
			13.09.2022.
			Agriculture
			department
			GO(Rt) No.
			855/2022/A
			GR/dtd.27.0
			9.2022
			rejected the
			application
			dtd:
			25.09.2022
			of Secretary,
			Thrissur
			Corporation
			for
			conversion

			of land.
			Revenue
			Department
			Letter no.
			REV-
			P1/132/202
			2-REV
			dtd.
			27.09.2022
			rejected the
			application
			of Hon.
			Mayor for
			conversion
			of land. But
			as per the
			letter no.
			115/NCA2/2
			021/AGRI
			dtd.
			18.10.2022
			the
			Secretary,
			Agriculture
			Department
			proposed to
			submit the
			land
			conversion

			matter
			before the
			Secretary
			(Environmen
			t
			department)
			for further
			action.
			Revised
			technical
			sanction for
			64.20 cr.
			obtained on
			25.10.2022.

ACTION BY GROUND WATER DEPARTMENT

SI.	Ref para item nos	Activity	Progress in the	Progress in the	Progress in	% works	Details
No.	as per NGT Order		month of	month	the month	completed	of works
	no.673/2018 dated 20.09.2018		September 2022	of October	of		remaini
				2022	November		ng
					2022		

1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	According to the latest GEC report there is no critical / over exploited blocks in Thrissur Dt.	According to the latest GEC report there is no critical / over exploited blocks in Thrissur Dt.	According to the latest GEC report there is no critical / over exploited blocks in Thrissur Dt.	
2	B(ii)	Ground water recharging / rain water harvesting	Proposal for one artificial recharge scheme(dug well recharge) submitted for technical sanction.	Proposal for two artificial recharge schemes(dug well recharge) submitted for technical sanction. Two artificial recharge schemes tendered.	Technical sanction accorded for two artificial recharge schemes and work order issued.	
3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps	Water level data collected from GWD observation wells.	Water level data collected from GWD observation wells.	Water level data collected from GWD observation wells.	
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices	al-shakthi- Abhiyan central team visited dug well recharge scheme @ Poomala			

	PHC & coir geo textile		
	work at Kundanthode		
	,Avanur GP.		

ACTION PLAN BY GRAMAPANCHAYATH

No.	Activity	Implementing	Time line	Progress in	Progress in the	Progress	% works	Details of
(as per		agency		the month	month	Progress	completed	works
Action				of	of October 2022	in the		remaining
Plan)				_		month of		- 0

				September	November		
				2022	2022		
С	Removing weeds in Puzhakkal River	Adat	31.03.2020			100	com
		Gramapanchayath				%	plet
							ed
C(ii)	Removing waste from all wards through	KUDUMBASREE	31.03.2020			100	com
	kudumbasree					%	plet
							ed
С	water conservation projects tree plantation under GA in18 wards 100000/ each	MGNREGS	31.03.2020			82%	18
С	ward 14 pachthurthu comstruction	Haritha Keralam	31.03.2020			100	com
		Mission				%	plet
							ed
С	side protection to water bodies coir geo textile	MGNREGS	31.03.2020			92%	8

PUZHAKKAL Date of sampling - 11.11.2022									
SL. NO	PARAMETER	UNIT	SBA	ктн	PTU	MP			
			7.7	7.4	8.3	7.9			
1	PH								
			185.2	383.3	118.6	127			
2	EC	μs/cm							

			1.22	2.14	1.12	2.12			
3	BOD	mg/L							
			7.25	6.25	6.32	6.04			
4	DO	mg/L							
			8	8	4	4			
5	COD	mg/L							
			100	100	400	300			
6	TC	CFU/100ml							
			50	50	100	200			
7	FC	CFU/100ml							
			NIL	NIL	10	10			
8	FSC	CFU/100ml							
SBA - NEAR SC	OBHA CITY, KIZH	IAKKUMMURI	ROAD, PU	ZHAKKAL					
KTH - KURINJA	KKAL THODU, P	UZHAKKAL							
PTU - PANCHIK	KAL THODU, PU	JZHAKKAL							
MP - MUPPUZHA, PUZHAKAL									

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

RIVER BHARATHAPUZHA, PALAKKAD – OCTOBER2022

S. No	Activity to be monitored	Timeline	Submission of progress by State/UT- Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation	March 2021	Kerala Water Authority prepared a DPR for STP and submitted to the Government. The STP is proposed to be
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	Not proposed	installed at Nambram in Pattambi municipality in about 50 cent of land The survey for the sewerage pipeline was also completed and it was also included in the DPR.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning	March 2021 (Primary STP and Septage Treatment Plant proposed, not STP)	Kerala Water Authority was prepared a DPR for sewerage network and STP and submitted for approval.
5	 Chief Secretaries may set up appropriate monitoring mechanism at state level Specifying accountability of nodal authorities not below the Secretary level Chief Secretaries may have an accountable person attached in their office for this purpose 	Applicable at State level	Not Applicable
	Monitoring at State level must take place	Applicable at State level	Not Applicable
6	 Progress report may be furnished by the State/UTs to Secretary, Ministry of Jal Shakti Member Secretary, CPCB 	Applicable at State level	Not Applicable

6.1	Progress Report may be comprised of details along with completion timelines on:(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.	Primary STP (oil and grease trap with grit chamber)- March 2021	Kerala Water Authority is preparing a DPR for sewerage network and STP and submitted for approval.
	(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	Not Proposed	Not Applicable
	(III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status	Not proposed	Not Applicable
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	MSW treatment Plant – March 2021	Implemented
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	March 2021	Water quality monitoring of polluted river stretch and two additional points were completed untilJuly2022. Results are complying with outdoor bathing standards.
	(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.	Implemented by January 2020	Management of dry wastes were achieved through the MCF and RCF facilities, BMW by CBWTDF, E-Waste by authorised collection agencies.

(vii)Ground water regulation	No specific proposal	Not Applicable
(viii) Adopting good irrigation practices	No specific proposal	Not Applicable
(ix) Protection and management of food plain Zones (FPZ)	March 2021	DPR for regulating flood plain zone protection and management, and E-flow maintenance in the Bharathapuzha at Pattambi were prepared by Irrigation Department and submitted to the government several months ago. But funding did not get sanctioned.
(x) Rain water harvesting	No specific proposal	Not Applicable
(xi)Maintaining minimum Environmental flow of river	March 2021	A more comprehensive DPR by Irrigation Department and submitted for approval of State Government
(xii) Plantation on both sides of the river	No specific proposal	Not applicable
(xiii)Setting up biodiversity parks on flood plains by removing encroachment	No specific proposal	Not applicable

ACTION PLAN FOR RIVER BHARATHAPUZHA, KERALA

No.	Activity	Impleme	Time line	Progress in the	Progress in the	% works	Details of
(as per		nting		month of September	month	completed	works
Action		agency		2022	ofOctober2022		remaining
Plan)		Dattaus h:	Manah 2021			1000/	N1:1
1	Establishment and Modernisation of MSW		March 2021	Implemented	Implemented	100% work	Nil
	treatment Plant (Solid Waste Management)	Municipality				completed	
2	Material collection Facility (Solid Waste	Pattambi	Implemented	Implemented	Implemented	100%	Nil
	Management)	Municipality	by January	implementeu	Implemented	implemente	
	5 ,	. ,	2020			d .	
3	Resource recovery facility (Solid Waste	Pattambi	Implemented	Implemented	Implemented	100%	Nil
	Management)	Municipality	by January			implemente	
			2020			d	
4	Installing house hold and community level	Pattambi	March 2021	Unit supplied to	Tendered	Nil	100%
	solid waste management units	Municipality		house holds in 2021-	rendered		
				2022.Tendering of			
				2022-23 in progress.			
5	Door to Door Collection and Transportation of	Pattambi	December	Implemented	Implemented	Implemente	Nil
	MSW	Municipality	2020			d	
6	Regulating activities in flood plain zone	Irrigation	March 2021	A more	DPR for regulating	Implement	Full
	protection and management of flood plain zone	departme		comprehensive	flood plain zone	ation not	implementat
	including side bank protection and greenery	, nt		DPR by Irrigation	protection and	started	ion
	development			Department and submitted for	management, and E-		remaining
				approval of State	flow maintenance in		
				Government.	the Bharathapuzha at		
				Planning Board	Pattambi were		
				approved budget of	prepared and		
				500 Crore for NGT related projects.	submitted to the		
				related projects.			

				That fund may be utilised for the implementation of DPR.	government several months ago. But funding did not get sanctioned.		
7	Issues relating to E-flow, maintaining minimum environmental flow of river(by having watershed management provisions) including removal of light jungles and muddies from river courses	departme nt	March 2021	A more comprehensive DPR by Irrigation Department and submitted for approval of State Government	A more comprehensive DPR by Irrigation Department and submitted for approval of State Government	Implementa tion not started	Full implementat ion remaining
8	Management of Municipal plastics, hazardous, biomedical and electrical and electrical and electronic wastes		Implement ed by January 2020	Implemented	Implemented	100% Implemente d	Nil
9	Awareness programmes for sections of public	KSPCB	March 2021	Implemented	Implemented	100% Implemente d	Nil
10	Monitoring of river water quality by sampling	KSPCB	2020-2021	Water quality monitoring in Bharathapuzha at Pattambi and two additional points were completed until September 2022	Water quality monitoring in Bharathapuzha at Pattambi and two additional points were completed until October2022	Implemente d.	Implemente d. Will continue up to the full implementat ion of the action plan. Consistently achieving bathing standards

11	Primary Sewage Treatment Plant and Septage Treatment plant	Pattambi Municipali ty	March 2021	Kerala Water Authority prepared a DPR for STP and submitted it to the Government. The STP is proposed to be installed at Nambram in Pattambi municipality in about 50 cent of land. The survey for the sewerage pipeline was also completed and it is also included in the DPR.		Nil	100%
12		Pattambi Municipality	March 2021	Pattambi Municipality allocated funds for the installation of a modern slaughterhouse and assorted rendering plant but land could not be identified for the same.		Nil	100%
13		Pattambi Municipality	March 2021	DPR preparation on the renovation of two sanitary complexes and four new sanitary complexes at Pattambi Municipality is in progress.	Sanitary complex in taluk hospital under contribution.	20%	80%

Γ	14	Green Protocol implementation in all offices	Pattambi	March 2021	Implemented	Implemented	100%	Nil
		institution & public function	Municipality		p.ee.		Implemente	
							d	

	POLLUTED RIV				ROGRAM	1ME			
	Ľ	DATA SHEET	OCTOB	ER 2022					
]	Nhangatiri Temple	e (U/S of	NWMP-2)					
Statio	n Name	RIVER BHARAT	HAPUZHA	A AT PATTA	MBI (NWM	P-2)			
Туре с	f Water body	RIVER							
Comp	eted by	DO, PALAKKAD							
Agenc	у	Kerala State Pollut	ion Contro	Board					
1	Station Code	2 3 3	2						
2	Date and time of sample taken	0-10-2022							
Z	(DD/MM/YY, HH/MM)	1 0 :	5 0						
3	Weather	Cloudy Clear √			Wind	у	Rai	ning	
4	Approximate depth of main stream	< 50 cm $50 - 100 cm$			>100 c		Flo	bod	
5	Color & Intensity	Clear √		urbid	Gree		Bro	own	
6		1 = Light		oderate √	3 = Hi	-	0	1	
6 7	Odour Electing Matter	None √ Floating Algae		ïshy ng sludge	H ₂ S Oil & Gr			her Iyacinth	
/	Floating Matter	Floating Algae					waterr	Tyacının	
8	Visible effluent discharges in proximity	Industrial		pal sewage	None		/		
9	Human activities around the station	Cattle wading		ism spot	Fishing	Bathing		Other	
10	Location details	U/s of town or industrial area √		f town or		nter/Bathin ater intake	g	None	
			indus	trial area	Gnat/W	ater intake			
11	Flow rate	27.84 m ³ /s	1			1			
12	Major polluting source	Industrial effluent	MSW	PW	None $$		Other		
13	Uses of water in downstream	Irrigation	Drinking	water source $$	Fishing		Domestic		
15	Uses of water in downstream	Organized water source	Cul	ivation	Bathing Others Ghat				
Sl.No	Deter	rminants				Valu	ec		
1	Temperature, 0C	minants				26			
2	Dissolved Oxygen, mg/l				7.13				
3	рН				7.88				
4	Conductivity, µmhos/cm				178				
5	BOD, mg/l				1.66				
6					0.295				
7	Turbidity, NTU				BDL				
8	Phenolphthalein Alkalinity, mg/l				BDL				
	Total Alkalinity, mg/l				54				
	Chloride, mg/l				21				
	COD, mg/l				6				
	TKN, mg/l					0.01			
	Ammoniacal-N, mg/l					BD			
	Hardness as CaCO3, mg/l					56			
	Calcium as CaCO3, mg/l					30			
	Magnesium as CaCO3, mg/l					26			
	Sulphate, mg/l Calcium (Ca2+), mg/l					7.9			
	Magnesium (Mg2+), mg/l					6.31			
	Sodium, mg/l					<u> </u>			
	Total Dissolved Solids, mg/l					14			
	Total Fixed Solids, mg/l					71			
	Total Suspended Solids, mg/l					BD			
	Phosphate, mg/l					0.08			
	Boron, mg/l					BD			
	Potassium, mg/l					2.8			
	Fluoride, mg/l					0.20			
	Total Coliform, MPN/100 ml					100			
	Fecal Coliform, MPN/100 ml					Abse			
30	Fecal Streptococcus, MPN/100 ml					Abse			
31	% SODIUM					33.8	81		
32	SAR					0.8	1		

	POLLUTED RIV	ΈR	STRI	ETCH	MC) NI]	OR	ING P	ROGRAN	/ME		
	D	AT/	A SH	EET	OC	ГОВ	ER	2022				
	Ve	eliam	kallu	regulate	or (I	D/S of	f NW	MP-2)				
Statio	n Name	BHA	RATH	IAPUZ	HA A	AT PA	TTA	MBI				
Туре о	of Water body	RIV	ER									
Comp	leted by	DO,	PALA	KKAD								
Agenc	Agency		la Stat	e Polluti	on C	ontrol	Boar	ď				
1	Station Code	2	3	3	2							
2	Date and time of sample taken	10/7/	/2022		-							
	(DD/MM/YY, HH/MM)	1	1	:	3	0						
3	Weather		Cloud	ly		Cl	ear √		Windy		Raining	
4	Approximate depth of main stream		< 50 c	m	50 – 100 cm		>100 cm		Flood			
5	Color & Intensity		Clear		Turbid		Green			Brown		
5	Color & Intensity		1 = Lig	ght	2 = Moderate $$		3 = High					
6	Odour		None		Fishy		H_2S			Other		
7	Floating Matter	Flo	oating A	Algae	Floating sludge		Oil & Grease		Water Hyacinth			
8	Visible effluent discharges in proximity		Indust	rial	М	unicij	pal se	wage	None $$			
9	Human activities around the station	Ca	attle wa	ading		Tour	ism sp	pot	Fishing	Bathi	ng √	Other
10	Location details	0,	s of to lustria			D/s of ndusti			Pilgrim center/Bat Ghat/Water inta		0	None
11	Flow rate	223.	$2 \text{ m}^3/\text{s}$									-
12	Major polluting source			ffluent	M	SW	l	PW	None √		0	ther
13	Uses of water in downstream		Irrigati	on	Drinking water so		ource √ Fish		ing	Domestic		
15	Uses of water in downstream		Organized water		sour	source Cultivat		tivation Bathing		Ghat	Others	

S1.No	Determinants	Values
1	Temperature, 0C	28
2	Dissolved Oxygen, mg/l	7.4
3	pH	7.9
4	Conductivity, µmhos/cm	212
5	BOD, mg/l	0.33
6	Nitrate-N, mg/l	0.605
7	Turbidity, NTU	BDL
8	Phenolphthalein Alkalinity, mg/l	BDL
9	Total Alkalinity, mg/l	63
10	Chloride, mg/l	26
11	COD, mg/l	3
12	TKN, mg/l	0.009
13	Ammoniacal-N, mg/l	BDL
14	Hardness as CaCO3, mg/l	70
15	Calcium as CaCO3, mg/l	30
16	Magnesium as CaCO3, mg/l	40
	Sulphate, mg/l	7.4
18	Calcium (Ca2+), mg/l	12
19	Magnesium (Mg2+), mg/l	9.72
	Sodium, mg/l	17
	Total Dissolved Solids, mg/l	128
	Total Fixed Solids, mg/l	79
23	Total Suspended Solids, mg/l	BDL
	Phosphate, mg/l	0.109
	Boron, mg/l	BDL
	Potassium, mg/l	3.5
27	Fluoride, mg/l	0.231
28	Total Coliform, MPN/100 ml	400

National Mission for Clean Ganga

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

RIVER BHAVANI, PALAKKAD- OCTOBER2022

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT- Compliance status
1	Ensure 100% treatment of sewage at least in-situ remediation	March 2020. Target achieved	Action plan completed. Septic tank systems are adopted for entire sewage treatment
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	Not proposed	Not Applicable
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning	STP not Proposed	Septic tank systems are adopted for entire sewage treatment
5	 Chief Secretaries may set up appropriate monitoring mechanism at state level Specifying accountability of nodal authorities not below the Secretary level Chief Secretaries may have an accountable person attached in their office for this purpose 		Not Applicable
	 Monitoring at State level must take place 	Applicable at State level	Not Applicable
6	 Progress report may be furnished by the State/UTs to Secretary, Ministry of Jal Shakti Member Secretary, CPCB 	Applicable at State level	Not Applicable

6.1	Progress Report may be comprised of details along with completion timelines on: (I) Identification of polluting sources including drains	Drains contributing	Not Applicable
	contributing to river pollution and action as per NGT order on in-situ treatment.	pollution to the River were not identified	
	 (II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline 	Not Proposed	Not Applicable
	 (III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure,Gap Analysis, Proposed along with completion timeline, No. of industries and complying status 	Not proposed	Not Applicable
	 (iv)<u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline 	Dec 2020	Dry waste- Implemented. Material Collection Facility and 80% of work completed for MSW treatment plant. Wet waste- 100% Managed at source level

 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; 	March 2021	Water quality monitoring of polluted river stretch and three additional points were completed until July2022
(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.	Implemented by January 2020	Not applicable
(vii)Ground water regulation	No specific proposal	Not applicable
(viii) Adopting good irrigation practices	No specific proposal	Not applicable
(ix) Protection and management of food plain Zones (FPZ)	March 2021	A more comprehensive DPR prepared and submitted for approval by Irrigation Department -Check dams at Bhoothivazhi, Anakkal and Chemmanur are proposed in the DPR.
(x) Rain water harvesting	No specific proposal	Not applicable

(xi)Maintaining minimum Environmental flow of river	March 2021	A more comprehensive DPR prepared and submitted to the Government for approval by Irrigation Department
(xii) Plantation on both sides of the river	No specific proposal	Not applicable
(xiii)Setting up biodiversity parks on flood plains by removing encroachment	No specific proposal	Not applicable

ACTION PLAN FOR RIVER BHAVANI, KERALA

No.	Activity	Implemen	Time line	Progress in the month of	Progress in the	% works	Details of
(as per		ting		September2022	month ofOctober	completed	works
Action Plan)		agency			2022		remaining
C(ii)	Establishment of MSW treatment Plant	Pudur Grama	2019-2020	MSW treatment	MSW treatment	80%	20% -
	(Solid Waste Management)	Panchayath		plant(MCF and RRF) was	plant(MCF and	implemented	installation of
				completed, machineries	RRF) was		treatment
				for RRF were purchased	completed,		equipment/
				and waiting for KSEB	machineries for		facilities are
				connection for its	RRF were		remaining
				installation.	purchased and		
					waiting for KSEB		
					connection for its		
					installation.		
C(ii)	Material collection Facility (Solid Waste	Pudur Grama	2019-2020	Implemented	Implemented	100%	Nil
	Management)	Panchayath				Implemente	
						d	
C(ii)	Construction of Compound wall Material	Pudur Grama	2019-2020	Implemented	Implemented	Implemented	Nil
	collection Facility Plant	Panchayath					
C(ii)	Installing of waste Bin in Colonies	Pudur Grama	2019-2020	Minis MCF in the	Minis MCF in the	62%	38 %
		Panchayath		colonies of Pudur	colonies of Pudur	implemented	implementati
				Panchayath were	Panchayath were		on remaining
				started as an	started as an		
				alternative of	alternative of		
				installation of waste	installation of		

		-					
				bin in the colonies.	waste bin in the		
				Mini MCF facility were	colonies. Mini		
				installed in the four	MCF facility were		
				wards and its coverage	installed in the 8		
				will be extend over all	wards and its		
				the 13 wards	coverage will be		
					extend over all		
					the 13 wards		
C(ii)	Preliminary expenses met for	Pudur Grama	2019-2020	Implemented	Implemented	100%	Nil
		Panchayath				implemented	
A(b)	Construction of Community Toilets	Pudur Grama	2019-2020	Construction of sanitary	Construction of	100 %	Nil
		Panchayath		complex at	sanitary complex at		
				Chavadiyururu under the	Chavadiyururuunde		
				"Take a Break Project"	r the "Take a Break		
				was completed	Project" was completed		
A(b)	Repair of Community toilets	Pudur Grama	2019-2020	Not Applicable		Nil	Nil
		Panchayath					
C(i)	Construction of Protection wall with fencing	Irrigation	2020-21	River side protection of	Side protection	85%	15 %
		department		Thekkuvattathode(strea	work near to		
				m)was completed.	Thekkuvatta LIS		
				Agreement executed for	to be started		
				Agreement executed for a new work on River	to be started		
				-	to be started		
				a new work on River	to be started		
C(i)	Seasonal clearance of jungle and muddies	Irrigation	2020 - 21	a new work on River Bhavani at Thekkuvatta LIS.		100	NIL
C(i)	Seasonal clearance of jungle and muddies from river courses	Irrigation department	2020 - 21	a new work on River Bhavani at Thekkuvatta	to be started Implemented	100	NIL

				athapuram were			
				completed			
D	Construction of Check dams at the identified	Irrigation	2020 - 21	Checkdam at	Administrative	75%	25 %
	locations	department		Boothivazhy,	sanction obtained		
				Anakkal&Chemmannura	for Bhoothivazhi		
				re proposed in the DPR	and Aralikonam		
					Check Dams &		
					looking forward		
					for TS. DPR for the		
					check dams of		
					Anakkal and		
					Chemmannur		
					were suggested to		
					be revised by		
					government. The		
					- revised DPR will		
					be submitted on		
					May 2022.		
D	Issues relating to Eflow, maintaining	Irrigation	2020 - 21	DPR prepared for	DPR prepared for	Implementati	Full
	minimum environmental flow of river(by	department		comprehensive solution	comprehensive	on not started	implementati
	having watershed management provisions)				solution		on remaining
E	Information Education and	Pudur Grama	2019 -20	Awareness programs	Implemented	Implemented	Implemented
	Communication (IEC)	Panchayath		conducted			
A(a)	Monitoring of river water quality by	KSPCB	2019 -20	Water quality	Water quality	Implemented.	Implemented.
	sampling			monitoring in Bhavani	monitoring in	Will continue	-
				at Elachivazhi and	Bhavani at	up to the full	
				three additional points	Elachivazhi and	implementati	

	were completed untilSeptember2022	three additional points were completed untilOctober 2022	on of the action plan.	
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POLLUTED RIVER STRETCH MONITORING PROGRAMME DATA SHEET OCTOBER 2022 Cheerakuzhi (U/S of NWMP-6)

		-		uzin (C				-)					
Statio	n Name	RIVI	ER BH	AVAN	I AT	ELA	CHIV	AZHI					
Туре о	of Water body	RIVER											
Comp	leted by	DO, PALAKKAD											
Agenc	Agency		Kerala State Pollution Control Board										
1	Station Code	1	2	0	8								
2	Date and time of sample taken (DD/MM/YY, HH/MM)	10/12	2/2022	:	1	5							
3	Weather		Cloud	ly		C	ear √			Wind	у		Raining
4	Approximate depth of main stream		< 50 c	m	4.	50 - 1	00 cn	n √		>100 c	m		Flood
5	Color & Intensity	Clear √		Turbid		Green			Brown				
		$1 = \text{Light } \sqrt{1}$		2 = Moderate		3 = High							
6	Odour	None $$		Fishy		H ₂ S			Other				
7	Floating Matter	Floating Algae		Floating sludge		Oi	1 & Gr	ease	W	ater Hyacinth			
8	Visible effluent discharges in proximity]	Industr	ial	М	[unici]	pal se	wage		None	\checkmark		
9	Human activities around the station	Cat	tle wac	ling √		Tour	ism sp	oot	Fis	ning	Bathi	ng √	Other
10	Location details		s of tov lustrial			D/s o indus			Pilgrim center/Bat Ghat/Water inta			0	None $$
11	Flow rate	19.2	m ³ /s										
12	Major polluting source	Indu	strial e	ffluent	M	SW]	PW	Nor	ne √		С	Other
13	Uses of water in downstream	Irrigation $$		Drinking water so		ource √		Fish	ing	Domestic $$			
15	Uses of water in downstream		Organized water			r source Cultivation		ivation	Bathing Gh		Ghat	t Others	

Sl.No	Determinants	Values				
1	Temperature, 0C	27.5				
2	Dissolved Oxygen, mg/l	6.86				
3	pH	7.71				
4	Conductivity, µmhos/cm	103				
5	BOD, mg/l	1.2				
	Nitrate-N, mg/l	0.067				
7	Turbidity, NTU	BDL				
8	Phenolphthalein Alkalinity, mg/l	BDL				
9	Total Alkalinity, mg/l	38				
10	Chloride, mg/l	12				
11	COD, mg/l	5				
12	TKN, mg/l	0.021				
13	Ammoniacal-N, mg/l	BDL				
14	Hardness as CaCO3, mg/l	38				
15	Calcium as CaCO3, mg/l	22				
16	Magnesium as CaCO3, mg/l	16				
17	Sulphate, mg/l	BDL				
18	Calcium (Ca2+), mg/l	8.8				
19	Magnesium (Mg2+), mg/l	3.888				
20	Sodium, mg/l	7				
21	Total Dissolved Solids, mg/l	65				
22	Total Fixed Solids, mg/l	44				
23	Total Suspended Solids, mg/l	BDL				
24	Phosphate, mg/l	0.147				
25	Boron, mg/l	BDL				
26	Potassium, mg/l	1.4				
	Fluoride, mg/l	0.205				
28	Total Coliform, MPN/100 ml	200				
29	Fecal Coliform, MPN/100 ml	100				
30	Fecal Streptococcus, MPN/100 ml	Absent				
	% SODIUM	27.66				
32	SAR	0.49				

	POLLUTED RIV	ER	STRI	ETCH	MC) NI]	OR	ING P	ROGRAM	ME		
	E)AT/	A SH	EET	OC.	ГОВ	ER :	2022				
		Cha	alayur	Uru (U/S	of NV	VMP	-6)				
Statio	n Name	RIVER BHAVANI AT ELACHIVAZHI										
Туре о	of Water body	RIVI	ER									
Comp	leted by	DO,	PALA	KKAD								
Agenc	х у	Kera	la Stat	e Polluti	ion C	ontro	Boar	d				
1	Station Code	1	2	0	8							
2	Date and time of sample taken	10/12	2/2022									
	(DD/MM/YY, HH/MM)	0	1	:	0	0						
3	Weather		Cloud	ly		Cle	ear v	/	Windy		Raining	
4	Approximate depth of main stream		< 50 c	m		50 – 1	00 ci	n √	>100 cm		Flood	
5	Color & Intensity		Clear		Turbid		Green			Brown		
5	Color & Intensity	1	= Lig	ht √		2 = N	Moderate $3 = 1$		3 = Hi	gh		
6	Odour		None			F	ishy		H_2S		Other	
7	Floating Matter	Flo	oating A	Algae]	Floati	ng slu	dge	Oil & Grease		Water Hyacinth	
8	Visible effluent discharges in proximity		Industi	ial	М	unici	pal se	wage	None	\checkmark		
9	Human activities around the station	Cat	tle wa	ding √		Tour	ism sj	pot	Fishing	Bathi	ng √	Other
10	Location details		s of tov lustria			D/s o indus			Pilgrim ce Ghat/W	enter/Bat ater inta	0	None $$
11	Flow rate	19 m	n^3/s									
12	Major polluting source			ffluent	M	SW]	PW	None √		0	ther
13	Uses of water in downstream	Irrigation $$		Drinking water so		ource √ Fish		ing	Domestic $$			
15	Uses of water in downstream		Organized water		r source		Cultivation		Bathing Ghat		Others	

S1.No	Determinants	Values				
1	Temperature, 0C	27				
2	Dissolved Oxygen, mg/l	6.53				
3	pH	7.85				
4	Conductivity, µmhos/cm	115				
5	BOD, mg/l	1.86				
6	Nitrate-N, mg/l	0.032				
7	Turbidity, NTU	BDL				
8	Phenolphthalein Alkalinity, mg/l	BDL				
9	Total Alkalinity, mg/l	48				
10	Chloride, mg/l	10				
11	COD, mg/l	10				
12	TKN, mg/l	0.0229				
13	Ammoniacal-N, mg/l	BDL				
14	Hardness as CaCO3, mg/l	48				
15	Calcium as CaCO3, mg/l	32				
16	Magnesium as CaCO3, mg/l	16				
17	Sulphate, mg/l	BDL				
18	Calcium (Ca2+), mg/l	12.8				
19	Magnesium (Mg2+), mg/l	3.888				
20	Sodium, mg/l	6				
21	Total Dissolved Solids, mg/l	74				
22	Total Fixed Solids, mg/l	46				
23	Total Suspended Solids, mg/l	BDL				
24	Phosphate, mg/l	0.16				
	Boron, mg/l	BDL				
26	Potassium, mg/l	1.1				
27	Fluoride, mg/l	0.102				
28	Total Coliform, MPN/100 ml	500				

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

S. No.	Activity to be monitored	Timeline	Submission of progress by state/UT-Compliance status
1	Ensure 100% treatment of sewage at least in- situ remediation		
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured		STP Repairing project DPC approved.Techinical wing and Hotel& Restuarent Association meeting conducted for further action.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their Commissioning		Action plan prepared
5	 Chief Secretaries may set up appropriate monitoring mechanism at state level Specifying accountability of nodal authorities not below the Secretary level Chief Secretaries may have an accountable person attached in their office for this purpose. 		
	 Monitoring at State level must take place 		
6	 Progress report may be furnished by the State/UTs to Secretary, Ministry of Jal Shakti Member Secretary, CPCB 		

6.1	along with completion timelines on: (I) Identification of polluting sources including drains contributing to river pollution and action as per NGT	Last updated report submitted was on October 20 ,2022 (I)Identified 3 drains on 10/12/2018 at the hajiyar pally stretch.
	order on in-situ treatment. (II) <u>Status of STPs, I&D and sewerage</u> <u>networks</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline	 (ii)Malappuram municipality – 30 KLD. Not completed revamping & not submitted application for consent as well till date. Given direction several times during DLTC meetings to submit the proposal for revamping and get it approved from Board . Action plan prepared through KWA
		(iii) NIL
	 (III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status (iv) <u>Status of Solid Waste Management &</u> <u>Details of Processing Facilities</u> 	(iv) Activities progressing with decentralised source level treatment method and 2506 devices are distributed. New Project approved for 6000Ring compost unit. Further steps doing for TS&E-Tender
	Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (v)Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	(v)Attached Analysis Report for the month of October2022. More activities are progressing under the "Thelineer Ozhukum Navakeralam "scheme

(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.	(vi)Actions being initiated to prevent illegal waste dumping. Bio-Medical Waste collecting through IMAGE .Municipality has one MRF and 3 MCF's. Dry Waste Collecting through HKS and stored in these facilities from where recyclable materials are handed over to authorised recyclers and rejects, to KEIL through Clean Kerala Company.
(vii)Ground water regulation	(vii)NA
(viii) Adopting good irrigation practices,	(viii)Complying
(ix) Protection and management of food plain Zones (FPZ),	(ix)NA
(x) Rain water harvesting,	(x)Complying
(xi)Maintaining minimum Environmental flow of river	(xi)Complying (xii)NA
 (xii) Plantation on both sides of the river (xiii) Setting up biodiversity parks on flood plains by removing encroachment 	(xiii)NA (xiii)NA

ACTION PLAN FOR RIVER KADALUNDI, MALAPPURAM, KERALA

1.	MALAPPURAM MUNIC	IPALITY-SHORT TI	ERM SOLID & L	IQUID WASTE N	1ANAGEMENT	ACTION PLAN		
No.	Activity	Implementing agency	Time line	Progress in the month of August 2022	Progress in the month of September2 022	Progress in the month of October2022	% of works complete d	Details of works remaining
1.1	Slaughter house and Poultry house	Malappuram Municipality	July 2022	No progress	No progress	No progress	0%	No progress
1.2	Valiyathodu Cleaning - 8 Km length	Malappuram Municipality	completed	completed	completed	completed	completed	completed
L.3	Installation of screening net in the Valiyathodu	Malappuram Municipality	completed	completed	completed	completed	completed	completed
1.4	Identification of polluting points in Kadalundi river & awareness campaign - River walk(puzhanadatham – 15 km length)		completed	completed	completed	completed	completed	completed
5	Sanitation facility and treatment of waste water in the markets - Treatment plant		completed	completed	completed	completed	completed	completed

1.6	The discharge of waste water from the surrounding houses to the Valiyathodu - Blocking of discharge of liquid waste	Malappuram Municipality	completed	completed	completed	completed	completed	completed
1.7	Identification of illegal outlets into storm water drains and fine imposed on such units.	Malappuram Municipality	ongoing	completed	completed	completed	completed	completed
1.8	Biodegradable waste Bio gas plants- 186 Bio bins – 908 Bucket compost – 1445 Tumburmuzhi Aerobic bins - 4 Submitted proposal for 8000 ring compost systems	Malappuram Municipality	In progress	In progress	In progress	In progress	completed	Completed
	Non biodegradable waste MCF & Plastic shredding and Bailing Echo Kiosk	Malappuram Municipality	Completed	Completed	Completed In progress	Completed 40 mini MCF	Completed In progress	Completed
			March 2020	In progress		40 mini MCF project submitted to DPC	III PIOGIESS	Waiting for approval

1.10	Identification and monitoring of illegal activities/ CC TV Network installation	Municipality	Ongoing Ir			n progress	In progress	In progress
No.	Activity	Implementing agency	Time line	-	of the month	n Progress in the month of October2 022	% works Completed	Details of works remaining
2.1	River water quality Monitoring- Thirurangadi, Ha jiyarpally National Water Quality Programme(NWMP)	KSPCB	Ongoing; Monthly frequenc					
2.2	River water quality Monitoring -	KSPCB	Ongoing; Seasonal Pre -					

2.3	Thirurangadi, Kooriyad, Manikut, Hajiyarpally, Anakkayam, Oravambrum - State Water monitoring programme (SWMP) Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc. in Malappuram Municipalarea	KSPCB	monsoon, post - monsoon Ongoing; Interval; Red – 1 month, Orange- 3 months, Green- 6 months					
Ne			3.GROUNI				0/	
No.	Activity	Implementing agency	Time line	Progress in the month of August 2022	022	in the	% works compl eted	Details of works remaining
3.1.	Ground Water resources and regulation of ground water extraction by	Ground water Department		No action included in the approved action plan to be performed by Ground	No action included in the approved action plan to be performed	No action included in the approved		

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

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

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

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

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

6.1 Progress Report may be comprised of details along with completion timelines on:	Last updated report submitted was on October20, 2022
 (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. 	(i)Identified 17 drains out of which 9 were additionally identified on 11.07.2019
(ii) <u>Status of STPs, I&D and sewerage</u> <u>networks</u> _Details of Existing Infra structure, Gap Analysis, Proposed along with completion timeline	 (ii)<u>Tirur Fish Market STP</u>– 45 KLD- Not working condition. As per Board directions to replace blower and renovate aeration tank, and to construct RVH for fish market, estimate of Rs.1, 88000/- prepared to place before the council. During DLTC meeting they have reported that the renovation work is over. Accordingly conducted site inspection by Board on 30.03.2022 to evaluate progress, No progress found. Informed that they have no proper technical personnel to give a technical sanction of the renovation work. Since about 3 years repeated directions are being issued for time bound renovation of fish market STP. The matter was discussed in the DLMC meeting conducted on 16/6/22. It was suggested by EE to give work order to a single contractor on DBOT basis as per latest govt. order dated 28/4/22 which gave permission to LSGD s for the same. (ii)<u>Tirur municipal Bus Stand</u> STP-50 KLD –Present status – Truss work of shelter completed and electrical installation works going on.95% of total work completed. Expected to be completed shortly.

(iii) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure,GapAnalysis, Proposed along with completion timeline, No. of industries and complying status	iii)NIL
 (iv) <u>Status of Solid Waste Management &</u> <u>Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline 	(iv)De centralised treatment facilities, Disposal using sanitary landfills, composting operations, MRF, MCF etc. Slaughter house- completed civil work. Electrical installation works started.
 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; 	(v)Attached as Annexure II-Analysis report during the month of October 2022)
(vi) Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.	(vi)Actions are being initiated to prevent illegal waste dumping. BMW are being disposed scientifically through IMAGE. Municipality have MRF, MCF facilities
(vii) Ground water regulation	(vii)NA
(viii) Adopting good irrigation practices,	(viii) Complying
(ix) Protection and management of food plain Zones (FPZ),	(ix) NA

-	
(x) Rain water harvesting,	(x) Complying
(xi) Maintaining minimum Environmental flow of river	(xi) Complying
(xii) Plantation on both sides of the river	(xii) NA
(xiii) Setting up biodiversity parks on flood plains by removing encroachment	(xiii) Reported that encroachment survey is completed and now the process of laying survey stones is in progress.

ACTION PLAN FOR RIVER TIRUR, KERALA

1.		1.IRRIGATION DEPARTMENT								
No.	-	Implementing agency	Time line 31.03.2020	Progress during month of August 2021	Progress during month of Septembe r 2022	-	% works completed	Details of works remaining		
1.1. 1	Strengthening the right side bund of Tirur- Ponnani Puzha at Porur, ward no. I Tirur Municipality	Irrigation Department	6 Months		No progres s	Nil	These two works are combined and			
1.1. 2	Cleaning and development of old Ponnani Thodu at Thazhepalam	Irrigation Department	6 Months			Nil				

1.1.	Repair and Rehabilitation o Koottayi Regulator cum Bridg across Tirur Ponnani Puzha i Mangalam Grama Panchayat in Malappuram Dist	e Department n	18 Months	Civil work 0% and mechani cal works 10%	Due to No rain,th progr e work can start in Septem ber.		ork ical works	
			2.TIRU		PALITY			
No.	Activity	mplementing agency	Time line	month of	Progress during month of September 2022	Progress during month of October2022	% works completed	Details of works remaining
2.1	Provide septic tank for nearest houses	Tirur Municipality	Dec 2019	completed	completed	completed	100	NIL
2.2	Establishment of Solid waste Treatment Plant Thumboor Muzhi Model Aerobic Bin	Tirur Municipality	March 2020	completed	completed	completed	100	NIL
2.3	Degradable waste treatment Plant, Resource Recovery facility, Plastic Shredding Unit Segregation shed	Tirur Municipality	March 2020	completed	completed Revised estimate o	Completed	100	NIL

			2020	installation going on	biogasplant and ETP submitted for the approval	mechanical work on going	90%	In progress
2.5	Fencing on Bridgeside ThalakkadathurBridge	Tirur Municipality	December 2020	complet ed	completed	completed	100	NIL
2.6	-	Tirur Municipality	May 2020	Complete d	completed	completed	100	NIL
2.7	Planting of Bamboo seedlings on the river bank (Thazhepalam)		June 2020	Complete d	completed	completed	100	NIL
2.8	Renovation of Effluent treatment plant at fish Market. AMC Granted ETP with Aerobic System	Tirur Municipality	June 2019		fexisting ETP at fish market. We have	been given to IRTC to hand over the work directly and submitted estimation	In progress	(See minutes)

2.9	Setting up of STP at Private Bus stand	Tirur Municipality	June 2020	Mechanical work is going on.	complete by the November of this year Three phase connection to be obtained from KSEB	Civil work completed. Application has been submitted to	progressing	In progress
					All the internal electrical works are completed,except the earth line works,which is being late because of the marshy land at the area.Sewerage line has to connect with STP.	phase connection .		
2.10	Setting up of a new drain after demolishing the old one. The old one was the hub of the waste water outlet of the shops and other establishments. The proposed drain is constructing in the middle of the road so as to avoid intrusion of pipes from outside	Tirur Municipality	June 2020	Completed	Completed	Completed	100	Completed

2.11	Identification of illegalTirur Municipal outlets in to storm water drain sand fine shall be imposed on such units	ity				n	ine imposing nechanism oing on	NIL
		3.KERALA S	STATE POI	LUTION	CONTROL BOAR	D		
No.		Implementing agency	Time line		Progress in the month of September2022	Progress in the month o October2022		Details of works remaining
3.1	River water quality Monitoring- Thalakadathur National Water Quality Programme(NWMP)	КЅРСВ	Ongoing; Monthly frequency			Ongo	ing monthly fr	equency
3.2	River water quality Monitoring State Water monitoring programme (SWMP)	KSPCB	Ongoing; Seasonal				Ongoing seaso	nal
3.3	Inspection and effluent quality monitoring of the flats, Industrial units, Service stations, hospitals, auditorium, hotels in Municipal area		Ongoing; Interval; Red – months	-			Ongoing	
	4. ACTION PLAN E	3Y VARIOUS GRA		CHAYATI YAMUNE		VETTOM,	MANGALA	Μ,
No.		Implementing agency	Time line	ss in	Progress in the month of September 2022	Progress in the month o October2022		Details of works remaining

				private				
				g road in				work remainig
		Nirmithi Kendra, Kozhikode		e on makin			wall completed	Landscaping
	protection	Panchayath		Disput		1 8	protection of	completion
4.4	Haritha KeralamThirur-Ponnanipuzha	Kondotty Mangalam Grama	31.03.2020	-	Inprogress	No progress	70%	Nearing
		Agency,						
		Panchayath Win Plus		ted				
4.3	Installation of CC TV camera	Mangalam Grama	Completed	-	completed	completed	100	NIL
	Bridge, Aikkanchiri Bridge, Paravanna Bridge		offund					
	YetterikadavuKunjulikkadavuMangattiri	SECURITY SYSTEM	due to lack	eted	*			
4.2	Installation of CC TV camera on	District Panchayath Vettom - KS	Spill over	compl	completed	completed	100	NIL
4.1	Protection of Tirur Ponnani River	Thalakkad Grama Panchayath handover fund to	31.03.2020	eted	Completed	Completed	100	NIL

No. 5.1.	Activity Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks	agency Ground water	Time line	s in the month of August2 022	No permits issued	Progress in the month o October2022 No permits issued	% works completed NA	Details of works remaining NA
	resources of Kerala, 2017 estimate a total number of 2 blocks (Tirur and Kuttippuram) comes under the Tirur river basin. These two blocks are semi-critical blocks and the stage of groundwater extraction ranges from 77.75 % to 77.92%)	Therefore, to regulate ground water resources in this area, no permission is granted for packaged drinking water industries or any other water induced industries				NO ACTION INCLUDE UNDER THIS PLAN BY GROUND WATER DEPARTMENT		
5.2	Ground water recharging / rain water harvesting (Earlier status: The average pre -monsoon groundwater level ranges from 6.14mbgl - 8.49 mbgl.)		NA		DEPARTMENT		NA	NA
5.3	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps				NA		NA	NA

5.4	For regulating use of gro irrigation purpose, adop irrigation practices (Earlier status: The total in the area ranges from ha.m.)	ting good irrigation draft		ion after 7. (Report shed)	ENUE DEPAR	DEPARTMENT			NA
No	Activity	Implementing age	ency	Timeline	Progress August2022		October	% works completed	Details of works
6.1	Survey of boundaries of river side	Revenue departm	nent		In progress	Completed	2022 Completed	100%	remaining Encroachment survey completed.

Kerala State Pollution Control Board, District Office, Kozhikode

NATIONAL MISSION FOR CLEAN GANGA

Format for submission of monthly progress report bystate/UTs (Hon'ble NGT in the matter of OA.No. 673/2018 dated 6/12/2018) For the month of OCTOBER 2022– Kallai polluted riverstretch

Sl No	Activity to be monitored	Timeline	Submission of progress by state/UT- complinance status
1	Ensure 100% treatment of sewage at least in-situ remediation		
2	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STP must be ensured.	30.09.2022	Construction of 2 MLDand1 MLD STP plant of Calicut medical college started
3	Timeline for completing all steps of action plans including completion of setting up STPsandtheircommissioning	Work under progress	Proposal for 13 MLD STP (6 MLD STP plant proposed at Kothi, 7 MLD STP plant proposed at Avikkal) – Tendering in progress
4	 Chief secretaries may set up appropriate monitoring mechanisms at the state level Specifying accountability of nodal authorities not below the secretarylevel Chief secretaries may have anaccountable person attached intheir office for thispurpose 		NIL
	• Monitoring at the statelevel must takeplace	Fortnightly commencing 21.12.2019	NIL

5	Progress report may be furnished by the	Monthly	NIL
	 state/UTs to Secretary,ministryofjal shakti 	(preferably before 20 th Ofevery month)	
	Membersecretary,CPCB		
5.1	Progress report may be comprised of details alongwith completion timelineon:		Drains identified. Pollution load calculated. Action plan prepared. Joint squad of PCB and Corporation inspection in action. Issued notice to 92 units.
	 (i) Identification of polluting source including drains contributing to river pollution and action asper NGT order on insitutreatment. 	Action continuing	30 units installed treatment facilities. During Jan-Mar 2020 joint squad of PCB and corporation inspected 82 units. Issued notice to 56 units. In 16 units installation of treatment units Effluent treatment facilities are under progress.Issued notice to 36 units and a fine of Rs.18500/- was imposed for the month of September 2020Monthly progress report submitted by Kozhikode corporation attached as <i>Annexure 1</i>
		31.03.2021	Dredging of Kallayi river from Kaduppini to Kothi -DPR submitted to SE,INC,KKD on 16.10.2019for Rs 773.05 lakhs(7.30 crores for desilting of river and 43.05 lakhs for fencing of 5 bridges) under action plan of Kallayi river and fencing of sides of the river. Work entrusted to KWIL –Dredging ,Desilting and removal of weedsfro EK canal -11.2Km
		31.07.2019	Submitted by Irrigation department
	(ii) <u>status of STPs, I&D and</u> <u>sewage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	work in progress	(i)Construction of 2 MLD, 1 MLD STP plant of Calicut medical college started10% work completed

	work in progress	 (ii)Proposal for 13 MLD STP (6 MLD STP plant proposed at Kothi, 7 MLD STP plant proposed at Avikkal) – Tendering in progress. (iii)STP of 13 MLD proposed at Kotooli.About 12% of sewer lines were laid by KWA – Honble NGT stayed the project (OA no. 215/2016). (iv)Individual septic tank and soak pit system provided for house hold, units like bakery, cool bars small restaurants with less seating capacity. Individual STPs for high rise building, hotels, Restaurants, Commercial buildings.
(iii) <u>status of CETPs</u> Details of existing CETP and ETP infrastructure, Gap analysis,proposed along with completion	No specific proposal	No CETP proposed
timeline, No. of industries and complying status.	Functioning	Kozhikode corporation
(iv) <u>status of solid waste</u> <u>management & details</u> <u>of processing facilities</u> Details of existing	Tunetioning	(i)Existing centralized wastedisposal facility of 100 MT/DAY at Njeliyanparamba(windrow composting)
infrastructure, Gap analysis,proposed along with completion timeline	Work in progress	(ii) Proposal of 450 TPD waste to energy plant at Njeliyanparamba implementation in progress. Cappingworkstarted.
	Functioning	(iii) Chicken waste rendering plant of
	Work in progress	40TPD functioning in Thamarassery – 170 chicken stalls of Kozhikode corporation are disposing off the waste through this rendering plant. Rendering plant construction for chicken stall waste – Perumanna .Peruvayal

Functioning. Andwork progressing	(iv) 3 MRF facilities existing (AtNjeliyamparamba(Super MRF) 3TPD- with plastic shredding unit, west hill industrial estate -2TPD with plastic shredding unit,NearJayanthinagar colony) - 70%completed
Functioning	
Functioning	(v) 24 units of aerobic compost facilities existing (Tagore hall, S K Pottakkad hall, Jubilee hall,Mofusil bus stand,T.B. Clinic,Circleoffice).
Functioning	 (vi) 350 ring compost and 150Biogas plants installed in households -kkd Corporation 26 biogas plant complete –peruvayal 190 ring compost complete –mavoor
Functioning	(vii) Community level biogas plant- 3nos(Mental Hospital 1TPD, ITI Malikadav -1TPD, Juvine home- 1TPD)
Functioning	(viii) 3 Biogas plants in market (Central market 2TPD, Vegitable market 2TPD, New busstand,2TPD)
Functioning	(ix)Treatment facility for waste in
	Central Market – Tendering in
30/03/2021	Progress (x) Establishment of slaughter house-
31/12/2022	<u><i>MavoorPanchayath</i></u> MCF 1 nos,ringcompost,compost pit- Completed and functioning
31.03.2021	<u>Perumanna Panchayat</u> Compost pit and MCF with baling machine (1 nos) -Work in progress completed within two months.
31.03.2021	Peruvayal PanchayatCompost pit,mini MCF 2 nos,biogas plant- Work in progress MCF-1nostemporarly functioningOlavanna PanchayatMCF-1 completedMini MCF -3 Work in
	progressMRF -1 In block

(v) latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		Analysis report of Kallayi river stretch for the month of AUGUST 2022Attached as <i>Annexure 2</i>
(vi) preventing dumping of waste and scientific waste management including bio-medical waste plastic waste and decentralizing waste processing, including waste generated from hotels, ashrams,etc.		Same as Item no. 5.1(v) Fine of 32 Lakhs imposed for illegal dumping of solid wastes into rivers and public places. Installation of CCTV. Biomedical waste from Hospital,labs,clinics collected through image, plastic waste disposal through recyclers. Individual solid waste processing facilities like bio gas plant, bio bins in high rise building, hotels, restaurantsetc.Fencing proposed by irrigation department.
(vii)ground water regulation		NIL
(viii) adopting good irrigationpractices		NIL
(ix) protection and management of flood plain zones(FPZ),		Flood prone mapping- Proposed by irrigation department
(x) Rain water harvesting	31/03/2021	Mavoor Panchayat Well recharging-Estimate under preparation

	31/03/2021 31/03/2021	<u>Peruvayal Panchayat</u> Well recharging-Work in progress <u>Olavanna Panchayat</u> Well recharging-Work in progress and completed by the end of march 2023
(xi) Maintaining minimum		
environmental flow of river	31/03/2021	Perumanna Panchayat Cleaning of Mampuzhariver-Work in Progress
	31/03/2021	Perumanna Panchayat
	Completed	Cleaning of Mampuzhariver-Ongoing <u>Olavanna Panchayat</u> Cleaning of Mampuzha river- Completed
(xii)Plantation on both sides of the river	Completed	Mavoor Panchayat 3500units completed
(xiii) Settingup biodiversity parks on flood plains by removing encroachment		Bio park in Kozhikode district- Proposed by irrigation department

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

ACTION PLAN FOR RIVER KALLAYI, KERALA

	Kozhikode Corporation										
N 0.	Activity	Implementin g agency	Time line	Progress in the month ofJuly 2022	Progress in the month of August2022	Progress in the month of september2 022	Progress in the month of OCTOBER 2022	% works complete d	Details of works remaining		
1	Identification of illegal outlets into storm water drain and issue Notice to such units	Kozhikode Corporation	30.12.2020	4Notices	42notices issued	2 notices issued	2 notices issued	Ongoing work	ongoing		
2	Waste to energy project proposed at Njeliyamparamba	KSIDC	30.06.2021	On going	On going	On going	On going	60%	40%		
3	Establishment of Aerobic compost units 24 units established in 6 sites	Kozhikode Corporation	Completed and functioning	Work Completed	Work CompletedF unctioning	Completed and functioning	Completed and functioning	complete d100%			

4	Segregation of solid waste at source level and treatment of house hold wastes 300 ring compost and 150 biogas plant installed	Kozhikode Corporation	30.06.2019	Work Completed	Work Completed	Work Completed	Work Completed	Work complete d	
5	Setting up of rendering treatment plant for chicken stall wastes Installed in Thamarasserypancha yath. Now waste is collected from 170 units	Fresh cut agency	on trial run	100% chicken waste collected and treated	Completed	Ongoing	Ongoing	100% Coverage	
6	Implementationbof Green protocol unit	Kozhikode Corporation	30.06.19	Completed	Completed	Completed	Completed	100%	
7	Setting up of common STP of (13 MLD) 7.1 At Kothi bridge- 6 MLD plant proposed 7.2 At Avikkal -7 MLD plant proposed	Kozhikode Corporation	31.03.2020	Due to Public protest, Both works has been stopped	Due to public protest 7 MLD STP work has been stopped. A writ was filed in the Hon: high	Due to public protest , the work has been temporarily stopped on 28.04.2022	Due to public protest , the work has been temporarily stopped on 28.04.2022	Total station survey complete d, constructi on of Fencing is complete	Constructio n of 6 & 7 MLT STPs and 98 KMS sewer line.

					court of Kerala by the protesters. An interim order was release in favour of Kozhikode corporation dated 08.04.2022, Base on this 6 MLD STP work was restarted on 27.04.2022. Again due to public protest , the work has been temporarily			d	
					been				
8	Cleaning of Canoli canal	Kozhikode Corporation	20.07.2019	completed	completed	completed	completed	10 0%	Completed

9	Purchasing of Solar Boat for Canoli canal cleaning	Kozhikode Corporation	31.03.2020	Project dropped	Project dropped	Project dropped	Project dropped		
10	Installation of CCTV Camera for the Identification and monitoring of illegal activities	Kozhikode Corporation	31.03.2020	Project dropped	Project dropped	Project dropped	Project dropped	Project Dropped	
11	Establishment of Mobile Septage Units	Kozhikode Corporation	31.03.2020	Project Dropped	Project Dropped	Project dropped	Project dropped		
12	Action taken against dumping of wastes into river and public places	Kozhikode Corporation	Continuing	10 Issue notices	14 Issue notices	7 notices issued	7 notices issued	Ongoing work	
13	Cleaning of B.K canal	Kozhikode Corporation	31.03.2020	completed	completed	completed	completed	100%	N.A
14	Establishment of treatment plant at Medical college (3 MLD plant) Tender over 14.1 -2 MLD plant proposed	Kozhikode Corporation	31.03.2020	600m pipe laying completed and construction of the collection	1070 m pipe laying completed and construction of the collection	1200 m pipe laying completed and constructi on of the collection	1200 m pipe laying completed and constructi on of the collection	28%	2100 ms pipe laying and Constructi o

	14.2- 1 MLD plant proposed			tank at 2 MLD site has been completed.	tank at 2 MLD site has been completed	tank at 2 MLD site has been completed	tank at 2 MLD site has been completed		n of 1 MLD STP is pending
15	Construction of drains at Y.M.RC Ayyankar colony	Kozhikode Corporation	31.03.2020	Work has been stopped. Contractor asked higher rate for the items which exceeds more than 25% than the tendered quantity. Details have been submitted to Kozhikode Council for approval.	Work has been stopped. Contractor asked higher rate for the items which exceeds more than 25% than the tendered quantity. Details have been submitted to Kozhikode Council for approval.	Work has been stopped. Contractor asked higher rate for the items which exceeds more than 25% than the tendered quantity. Details have been submitted to	Work has been stopped. Contractor asked higher rate for the items which exceeds more than 25% than the tendered quantity. Details have been submitted to	60 %	1000m canal side wall constructi on on are pending

					Same has been approved and forwarded to AMRUT SLTC for final approval.	Kozhikode Council for approval. Same has been approved and forwarded to AMRUT SLTC for final approval. Next SLTC meeting is scheduled on 20/06/202 2	Kozhikode Council for approval. Same has been approved and forwarded to AMRUT SLTC for final approval. Next SLTC meeting is scheduled on 20/06/202 2		
16	Implementation of STP at Kottooli (13.5 MLD)	Kozhikode Corporation		Now stay ord	er has been lif	ted. Additional	fund is requir	red	
17	Treatment facility for waste water in Central market	Kozhikode Corporation	EOI Process Ongoing	EOI Process Ongoing					

18	Establishment of comfort stations	Kozhikode Corporation		5 comfort station work completed			50%	50%	COMPLET ED ON MARCH 2023
19	Provide facility for MRF,RRF, Super MRF 3 units existing 19.1 Njeliyanparamb 19.2 Industrial estate 19.3 Mayor bhavanjayanthinagar colony	Suchitwa Mission	Project in progress	Project in progress	Project in progress		30%	30 %	70 %
20	Identification of illegal outlets from house to storm water drain and issue Notice to such Houses	Kozhikode Corporation	On going process	On going process	12notices	4 notices	4 notices		
21	Establishment of Plastic shredding unit	Kozhikode Corporation	On going process	Project started				100%	
22	Establishment of slaughtering unit	Kozhikode Corporation	Submitte	d to Impact Kera	la for KIFB Aic Preparatior		Approval.	Final Docum	ent
23	Cleaning of drains in Kozhikode Town	Kozhikode Corporation	On going process	On going process	On going process	Complete process	Complet ed		

		Pe	rumanna	Grama	Pancha	ayath			
No	Activity	Implementing agency	Time line	Progress in the month of JULY 2022	Progress in the month of AUGUST 2022	Progress in the month of SEPTEM BER 2022	Progress in the month of OCTOBE R2022	% works completed	Details of works remaining
1	Outlets into strom water drain and issue notice	Perumanna G P, kozhikode	Continues process	7 notice issued	7 notice issued	7 notice issued	7 notice issued	Inspection conducted regularly	
2	Establishment of six aerobic compost units in panchayat	Perumanna G P Kozhikode through MGNREGS	Dec-21	Complete d	Completed		100%	100% work completed	5 units will be started if public place is available
3	Collection and segregation of solid waste in the river	Perumanna G P	Continues process in every year				74%	74 % work completed	
4	Setting up of residential treatment plant for chicken stall waste	Perumanna G P	Continues process	Resolutio n passed by Panchaya t board to execute an agreemen t with Fresh cut,thama rassery,k kd	Resolution passed by Panchayat board to execute an agreement with Fresh cut,thamar assery,kkd	Resolution passed by Panchayat board to execute an agreement with Fresh cut,thamar assery,kkd	Resolution passed by Panchayat board to execute an agreement with Fresh cut,thamar assery,kkd	91%	

5	Setting up of 360 soak pit plant in all houses near the river area and panchayat	Perumanna G P MGNREGS	Dec-21	119 nos complete d	119 nos completed	119 nos completed	119 nos completed	Remaining work has been suspended as lack of personal days for current year	
6	implimentation of 360 compost unit near river side and panchayat	Perumanna G P MGNREGS	Dec-21	126 nos complete d	126 nos completed	126 nos completed	126 nos completed	Remaining work has been suspended as lack of personal days for current year	
7	Implementation of water flow project (aluvangalthazhamper umbattaelamanapada m,valiyapadam.mamp uzhthodenaveekarana project no 260/2021 project cost 16.67 lakhs) . it is a joint venture project by grama,block and jilla panchayat	Perumanna G P, Kozhikode block panchayat, Kozhikode jilla panchayat	Dec-21			Completed	Completed	Technical sanction obtained .tender procedure completed .including in 2021-22 plan as spillover project.	Tender has been done

8	Cleaning of	Distric panchayat	2018-19	Complete	Completed	Completed	Completed	25 lakhs	Work is
	mampuzha river	Kozhikode		d by	by	by	by	transferred	ongoing by
	(project name			panchaya	panchayat	panchayat	panchayat	to district	district
	:mampuzha water			t				panchayat	panchayat
	flow								,kozhikode
	restoration, project no								
	01/2018-19								
9	Establishment of 18	Perumanna G P	Dec-21	11 Nos	11 Nos	11 Nos	11 Nos	11 Nos	7 units not
	no s of mini MCF in	MGNREGS		complete	completed	completed	completed	100%	started
	different wards			d					
	including								
	payyadimetal where								
	the river is flowing								
10	Collection of plastic	Perumanna G P	Continuous	Three	Three	Three	Three	N A	Process will
	waste from the river		process	times	times	times	times		be done
				complete	completed	completed	completed		every year
				d					

	PeruvayalGramaPanchayath													
No	Activity	Implementing agency	Time line	Progress in the month of JULY202 2	Progress in the month of AUGUST 2022	Progress in the month of Septemb er 2022	Progress in the month of OCTOBE R2022	% works completed	Details of works remaining					
1	Outlet in storm water drain and issued notice	Peruvayal G P	Continuous process	5 notice issued	5 notice issued	5 notice issued	5 notice issued	On going						

2	Establishment of 5b units anaerobic composed unit in panchayat.	Peruvayal G P through MGNREGS	4/2021 TO 03/2021	work will commence on third week of march 2021	work will commence on third week of march 2021	work will commen ce on third week of novembe r2022	work will commence on third week of november 2022	NA	
3	Setting up of rentering plant for chicken solid waste	Peruvayal G P	Continuous process	Commenc e on 18/09/202 0	Commenc e on 18/09/202 0	Started soon	Started soon	100%	
4	Setting up of 379 soak pit plant in all houses	Peruvayal G P	04/2020 to 03/2021	On going	On going	on going	on going	Nil	170 will be finished within march 2021
5	Cleaning of mambuzha river (project name mambuzha renovation) project no : 190/2017-18	District panchayat Kozhikode	2017-18	Completed by Panchayat	Completed by Panchayat	complete d by panchaya th	completed by panchayat h	25 lakhs transferred to district panchayat	Ongoing
6	Establishment of 8 numbers of mini9 MCF	Peruvayal G P through MGNREGS	4/2020 TO 2021	4 mini MCF completed	6 mini MCF Completed	6 mini MCF Complet ed	6 mini MCF Completed	80%	4 will started immediately
7	Collection of plastic waste from the river	Peruvayal G P	Continuous process	3 times collected	3 times collected	3 times collected	3 times collected	100%	Continuous process

8	Collection and segregation of solid waste in the river	Peruvayal G P	Continuous process	3 times collected	3 times collected	3times collected	3times collected		Continuous process
9	Establishment of Bio gas plant	Peruvayal G P	2020-21	26 numbers completed	26 numbers completed	26 number complete d	26 number completed	70%	Work will be completed by the end of february 2023
10	Well recharge	Peruvayal G P through MGNREGS	2020-21	63 numbers completed	78 number completed	78 number complete d	78 number completed	82%	Work will be completed by the end of february 2023

	MavoorGp													
N o	Activity	Implementi ng agency	Time line	Progress in the month Of JULY 2022	Progress in the month of AUGUST2022	Progress in the month of SEPTEMB ER 2022	Progress in the month of OCTOBER202 2	% Work completed	Details of work remaining					
1	MCF	MavoorGp	31.03.201 9	Completed and functioning	Completed and functioning	Completed and functioning	Completed and functioning	100%	Nil					
2	Fish market construction	MavoorGp	31.03.201 9	Completed and functioning	Completed and functioning	Completed and functioning	Completed and functioning	100%	Nil					
3	Ring compost	MavoorGp	31.03.201 9	Completed and functioning	Completed and functioning	Completed and functioning	Completed and functioning	100%	NIL(190 units)					

4	Tree plantation in river side	MGNREGS	Completed	Completed	Completed	Completed	Completed	100%	NIL(3500 units)
5	Compost pit	MGNREGS	Completed	Completed	Completed	completed	completed	100%	NIL(1000 units)
6	Well recharge	MGNREGS	31.03.21	Estimate under preparation	Estimate under preparation	Estimate prepared	Estimate prepared		2 units (Buds school, Ayurveda dispensary)
7	Bucket compost	MavoorGp	31.03.21	Ongoing	Ongoing	completed	completed	100%	502 units
8	Collection of non biodegradable waste	MavoorGp	Througho ut the year	Ongoing	Ongoing	Ongoing	Ongoing		
9	Transportation of waste material to refinement unit	Clean kerala company	2022-23	Ongoing	Ongoing	Ongoing	Ongoing		
10	Cleaning ofCherupuzha (Kuniyakadav to Thenghilakadav)	Mavoor G P	2022-23	Completed	Completed	Completed	Completed	100%	1500 Meter
11	ValayannorThodu Cleaning	MGNREGS	2022-23	Estimate under preparation	Estimate under preparation	Estimate under preparation	Estimate under preparation		115 meter
12	AryankodeKalchiraT hodu Cleaning	MGNREGS	2022-23	Estimate under preparation	Estimate under preparation	Estimate under preparation	Estimate under preparation		115 meter
13	Drainage cleaning in Mavoor Town	Mavoor GP	2022-23		Estimate under preparation	Estimate under preparation	Estimate under preparation		

14	Ring compost	Mavoor GP	2022-23		Project approved	Project approved	

	<mark>OLAVANNA GRAMAPANCHAYAT</mark>													
N o	ACTIVITY	IMPLIMENTI NG AGENCY	TIMELINE	PROGRESSI N THE MONTH OF JULY 2022	PROGRESS ING THE MONTH OF AUGUST 2022	PROGRES SING THE MONTH OF SEPTEMB ER 2022	PROGRES SING THE MONTH OF OCTOBER 2022	% WOR KS COM PLET ED	DETAI LS OF REMA INING WORK					
1	Collection of plastic waste from the river	Olavannagrama panchayat	Continous process	2 times collected	2 times collected	4 times collected	4 times collected	85%	Process continuing					
2	Collection of segregation of solid waste in the river	Olavannagrama panchayat	Continous process	2 times collected	2 times collected	5 times collected	5 times collected	100%	Process continuing					
3	Establishment of Mini MCF in all wards	Olavannagrama panchayat through MGNREGS	4/2020 To 3/2021	2 Mini MCF Completed	2 Mini MCF Completed	2 Mini MCF Completed	2 Mini MCF Completed		Remaining will started immediately					
4	Cleaning of Mambuzha river	Olavannagrama panchayat	Continous process					77%	Process continuing					

5	Well recharge	Olavannagrama panchayat through MGNREGS	4/2022 To 3/2023	8 No's completed	8 No's completed	8 No's completed	8 No's completed		Work will be completed by the end of March 2023
6	Setting up of compost pit in houses	Olavannagrama panchayat through MGNREGS	4/2022 To 3/2023	48 No's completed	48 No's completed	48 No's completed	48 No's completed	15%	Work will be completed by the end of March 2024
7	Action taken against dumping of waste into river	Olavannagrama panchayat	Continous process					80%	Continuing
8	Collection of non biodegradable waste	Haritharmasena	Throughout the year						Continuing

	Irrigation Department													
No. (as per Action Plan)	Activity	Implementing agency	Time line			Progress in the month of September 2022	complete	Details of works remaining						

1	Desilting of Kallayi river from Kaduppini to Kothiin Kozhikode Corporation	Irrigation department	31.03.21	Tender for approval at chief engineer	
2	-	Irrigation department	31.03.21		
3	Dredging, Desilting & removal of weeds from E K Canal (11.2 km)	Irrigation department	31.07.19	7.7 km completed	Remai ning not done as there is no side protect ion
4	Bio Park in Kozhikode District	Irrigation department		NA	
5	Flood Prone Mapping in Kozhikode District	Irrigation department		Acton to be taken by the hydrology wing of irrigation department as this needs data collection, scientific analysis and modeling	

Kerala State Pollution Control Board

No. (as per Action Plan)	Activity	Implementing agency		in the	the month of AUGUST	in the	% works completed	Details of works remaining
	River water quality monitoring- KallayiriverNational Water Quality Monitoring Programme(NWMP)	KSPCB	Ongoing; monthly frequency					
2	River water qualitymonitoring– Kallayi rivers State Water Monitoring Programme, KSPCB fund (SWMP)	KSPCB	Ongoing. Seasonal monitoring– pre- monsoon, monsoon, post- monsoon					
	Inspection and effluent quality monitoring of the flats, industrial units, service stations, hospitals, hotels etc . in Malappuram Municipal area	KSPCB	Ongoing Interval: Red– 1month. Orange – 3 months. Green – 6					

	months.			

	SuchitwaMission								
No. (as per Action Plan)		Implementing agency	Time line	Progress in the month of JULY 2022	the month of	Progress in the month of SEPTEMBE R 2022	% works completed	Details of works remaining	
	Board displaying messages against dumping to be placed in river banks	Suchitwa Mission	15.07.19						

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of JULY 2022	Progress in the month of AUGUST 2022	Progress in the month of SEPTEMB ER 2022	% works completed	Details of works remaining
B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over expolited as critical zones/blocks (Earlier status: As per Groundwater resources of Kerala, 2017 estimate ,Kozhikkode Block comes under the Kallai river basin and the block is safe with stage of groundwater extraction 68.49%)	Ground Water Department		Ni 1	Nil	Nil		
B(ii)	Ground water recharging / rain water harvesting (Earlier status : The average pre-monsoon groundwater level is 7.23mbgl. Groundwater Department has implemented 3 no of dug well recharge schemes at Kozhikkode block)	Ground Water Department		Ni 1	Nil	Nil		
B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand	Ground Water Department		Ni 1	Nil	Nil		

Г

	pumps (Earlier status - Groundwater Department has 1 observation piezometer (BW)in the river stretch.)					
B(iv)	For regulating use of ground water for	Ground Water	Ni	Nil	Nil	
	irrigation purpose, adopting good irrigation	Department	1			
	practices					
	(Earlier status - The total irrigation draft in the					
	block area is 488.76 ha.m.)					

	Action p	lan by irri	igation	Depar	tment			
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of July2022	Progress in the month of August 2022	Progress in the month of September 2022	% works completed	Details of works remaining
Е	Dredging and desilting	Irrigation Dept	3 years					
E	E-flow (by micro water shed management)	Irrigation Dept	3 years			Sub mitt ed for appr oval of Chie f Engi neer		
Е	Flood plain zone (protection and management)	Irrigation Dept	3 years					
E	Greenery development (plant in trees on thebanks)	Irrigation Dept	3 years					

Kerala State Pollution Control Board, District Office, Kozhikode

NATIONAL MISSION FOR CLEAN GANGA

Format for submission of monthly progress report by state/UTs (Hon'ble NGT in the matter of OA.No. 673/2018 dated 6/12/2018)

For the month of OCTOBER2022–Kuttiady polluted river stretch

S1	Activity to be monitored	Timeline	Submission of progress by
Ν			state/UT-compliance status
0			
1	Ensure 100% treatment	12/2022	KuttyadiGramaPanchayath
	of sewage at least in-		Massive awareness program and
	situ remediation		survey conducted. Community
			toilet and household latrine
			schemes implements MRF and
			MCF. Work in good condition.
			Project for household compost
			bin in is completed and carried
			out drainage work.
		03/21	<u>ChakkittaparaPanchayath</u>
			Massive awareness program
			conducted. Community toilet
			and household latrine schemes
			implements MRF and MCF.
			Work in good condition. Project
			for household compost bin in
			progress and carried out
			drainage reparse work
		21.05.0004	Payyoli municipality
		31.05.2024	1. Action plan prepared
			under SBM 2.0
			2. Action plan prepared
			under Amrut Scheme
		02/2022	<u>ThurayurGramaPanchayath</u>
		03/2022	Ward wise awareness
			programme conducted.
			community toilet 'Take a
			Break' started and house hold
			latrine schemes
			implemented.MCF started.

			Project for house hold bucket
			compost completed.
			compost completed.
2	Commencement of	12/2022	KuttyadiGramaPanchayath
_	setting up of STPs and	12/2022	Committed to implement major
	connecting all the		scheme next year
	drains and other		ChakkittaparaPanchayath
	sources of generation of sewage to the STPs	03/21	Committed to implement major
	must be ensured		scheme next year
			Payyoli municipality
			1. Action plan prepared
			under SBM 2.0
			2. Action plan prepared
		31.05.2024	under Amrut Scheme
			ThurayrGramaPanchayath
			Major scheme will be
			implemented only by the
			availability of founds
3	Timeline for completing all	01/2023	KuttyadiGramaPanchayath
	steps of action plans		Attached separate report
	including completion of	03/21	<u>ChakkittaparaPanchayath</u>
	setting up STPs and their		River origin areas are in
	Commissioning		Chakkittapara, No industrial
			unites, ODF Project
			implemented
			<u>Payyoli municipality</u>
		31.12.2024	1. Action plan prepared
			under SBM 2.0
			2. Action plan prepared
			under Amrut Scheme
			<u>ThurayurGramaPanchayath</u>
			No industrial unit in
			thurayurgramapanjayath ODF
4			project implemented
4	Chief secretaries may		Not applicable
	set up appropriate		Not applicable
	monitoring mechanism at state level		
	• Specifying		
	accountability of nodal authorities not		
	below the		
	secretarylevel		

	 Chief secretaries may have an accountable person attached intheir office for thispurpose Monitoring at statelevel must takeplace 		
5	Progress report may be furnished by the state/UTs to • Secretary, ministryofjalshakti • Membersecretary,CPC B	Monthly (preferably before 20 th of every month)	Nil
5.1	Progress report may be comprised of details alongwith completion timelineon: (i) identification of polluting source including drains contributing to river pollution and action as per NGT order on insitu treatment	Primary STP (Oil and Grease trap with grit chamber) Will be implemented by 31/3/2021	Drains identified. Pollution load calculated. Action plan prepared. Notices issued by concerned Panchayath Secretaries to individual units. Action under progress by individual units.
		12/2022	Monthly progress report of Kuttiady, Maruthomkara, Cheruvannur, Changaroth,Perambra, Kavilumpara, VelomPanchayaths,Chakittapar a, Payyoli, Thurayoor, Irrigation department, Water Authority, Shuchitwa mission for the month of August 2022is attached as <i>Annexure 3</i> . <u>KuttyadiGramaPanchayath</u> Survey will be conducted

	3/2021	<u>ChakkittaparaPanchayath</u>
	03/2022	River originate from ChakkittaparaGrama Panchayat . Polluting sources are not identified. <u>ThurayurGramaPanchayath</u> Polluted area in river are not identified.
(ii) <u>status of STPs, I&D and</u> <u>sewage networks</u> Details of existing infrastructure,proposed along with completion timeline	3/21	Mostly rural area. No common STP proposed. Individual septic tank and soak pit system provided for house hold, units like bakery, cool bars small restaurants with less seating capacity. Individual STPs for high rise building, hotels, Restaurants, Commercial
	31.05.2024	buildings. <u>ChakkittaparaPanchayath</u>
	3/21	: Nil <u>Payyoli municipality</u> Action plan prepared underSBM 2.0
		<u>ThurayurGramaPanchayath</u> Nil
(iii) <u>status of CETPs</u> Details of existing CETP and ETP infrastructure ,Gap analysis, proposed	31.12.2024	 <u>Payyoli municipality</u> ✓ No CETPs proposed ✓ Action plan prepared under SBM 2.0
along with complying status	03/2022	ThurayurGramaPanchayath No industry in the locality KuttyadiGramaPanchayath No industry in the locality ChakkittaparaPanchayath
		No industry in the locality

(iv) status of solid waste
management& details of
processing facilities
Details of existing
infrastructure, Gap analysis,
proposed along with
completion timeline

31/03/2021

Completed and functioning

31/103/2021

31/10/2021

Construction started for block level MRF for 7panchayath in the Kuttiyady block.

MCF of KuttiyadiPanchayath set up with shredding unitwork completed and functioning.

Mini MCF set up in all wards of Kuttiyadipanchayath.

Kavilumparapanchayath 3 MCFs are functioning.

<u>MaruthomkaraPanchaya</u> <u>th</u> MRF completed and

functioning. Biogas plant work completed.

<u>VelomPanchayath</u> Community level – Biogas plant.Workunder construction(80% work completed). 50 nos of Biogas plant for house hold- Completed and functioning 50 nos of Biogas plant for house hold- Completed and functioning

<u>PerambraPanchayath</u> MCF- Tendering in progress Mini MCF – work completed.

<u>ChangarothPanchayath</u> Project for setting up MCF approved. Site to be identified soon. Biogas plant and Ring compost for house hold proposed. Plastic shredding unit proposed.

<u>ChakkittaparaPanchayat</u>

	03/2021	h
	0372021	House Hold plastic waste
		collected as per the
		guidelines of
		SuchithwaMission .
		<u>Payyoli</u>
		<u>Municipality</u>
	31/10/2024	One temporary MCF
		exist & 18 mini MCF
		under
		construction.Construc
		tion of permanent
		MCF going on. To be
		complete by
		September 2022
		ThurayurGramaPanc
		hayath
		House hold plastic
		waste collected as the
		guideline of Suchitwa
		mission
		KuttyadiGramaPanchaya
		th
		Report attached
ality of		Water quality monitoring result for the month of
ibutaries, tails and		August 2022 is attached
ty in the		as Annexure-4
ted river		<i>ChakkittaparaPanchayat</i>
		h
		No details available
nning of		
nping of ic waste		Same as Item no. 5.1(v)
ling bio-		Biomedical waste from
tic waste		Hospital, labs , clinics
g waste		collected through image,
ng waste notels,		plastic waste disposal
		through
		recyclers.Individual
		solid waste processing
		facilities like bio gas
		plant, bio bins in high
		rise building, hotels

(v) latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river

(vi) preventing dumping of waste and scientific waste management including biomedical waste plastic waste and decentralizing waste processing, including waste generated from hotels, ashrams,etc.

	03/2021	etc.Fencing proposed by irrigation department. <u>ChakkittaparaPanchayat</u> <u>h</u> No waste dumping <u>ThurayurGramaPanc</u> <u>hayath</u> No waste dumping <u>KuttyadiGramaPanchaya</u> <u>th</u> No waste dumping
(vii) ground water regulation	31/10/2023	ChakkittaparaPanchayat <u>h</u> Ground water regulationand action takenThurayurGramaPanc <u>hayath</u> Ground water regulation0and action takenKuttyadiGramaPanchaya <u>th</u> Action taken
(viii)adopting good irrigationpractices	31/10/2024	ThurayurGramaPanc hayathAs per the direction of Government, action will be takenChakkittaparaPanchayat hAs per the direction of Government, action will be takenKuttyadiGramaPanchayat thAs per the direction of Government, action will be taken

(ix) protection and management of flood plain zones(FPZ),	31/10/2024	NIL
(x) Rain waterharvesting	Work in progress	<u>Velompanchayath</u> 22527 rain water pit , well recharge – 1500
	31/10/2024	houses <u>Kavilumparapanchayat</u> <u>h</u> well recharge – 160 houses
		<u>Maruhtonkarapanchay</u> <u>ath</u> Well recharge- work completed <u>Cheruvanoorpanchayat</u>
	03/2021	<u>h</u> Well Recharge – Project in progress <u>ThurayurGramaPanc</u>
		<u>hayath</u> Project for well water and well recharge is in progress as per the
		action plan of MGNREGS <i>ChakkittaparaPanchayath</i> Project for well water
		pit and well recharge adopted <u>KuttyadiGramaPanchaya</u> th
		Project for rain water pit and well recharge adopted
(xi) Maintaining minimum environmental flowof river	31/10/2024	Kavilumparapanchayat <u>h</u> Adopted steps to remove sands and rock dumped durig rain flood
		<u>Maruthonkarapanchay</u> <u>ah</u> 74 works ongoing

(#) 03/2021 MGNREGS(RWH, soil Conservation). Kavilumparapanchay ath S works ong under MGNREGS for protection of river sides ChakkittaparaPanchayath River Originating area, Noticed environment flow PayvoliMunicipalityRejav ation/cleaning of Naivaranithodu by removing slit and other solid wastes-Work in Progress ThurayurGramaPanchayath River originating area, Noticed environmental KuttyadiGramaPanchayath B Rain water storage pits provided to house. (#) 03/2021 ChakkittaparaPanchayath River originating area, Noticed environmental KuttyadiGramaPanchayath B Rain water storage pits provided to house. (#) 03/2021 ChakkittaparaPanchayath B Bamboo planting will be done only by the direction of governing council KuttyadiGramaPanchayath B amboo and Ramacham planted on	1 1	1		
(#) Plantation on bothsides of theriver 03/2021 Conservation). (#) Plantation on bothsides of theriver 03/2021 ChakkittaparaPanchayath River originating area , Noticed environmental KuttyadiGramaPanchayath River originating area , Noticed environmental Kuttyath River originating area , Noticed environmental Kuttyath River originating area , Noticed environmental River originating area , Noticed environmental River o				under
(all) Kavilumparapanchay ath 5 works ongoing under MGNREGS for protection of river sides ChakkittaparaPanchayath River Originating area, Noticed environment flow PayyoliMunicipalityRejuv ation/cleaning of Naivaranithodu by removing slit and other solid wastes-Work in Progress ThuravurGramaPanc hayath River originating area , Noticed environmental KuttyadiGramaPanchaya th Rain water storage pits provided to house. (xil) Plantation on bothsides of theriver 03/2021 ChakkittaparaPanchayath Rain water storage pits provided to house. 03/2021 ChakkittaparaPanchayath Bamboo planting will be done in MGNREGS ThuravurGramaPanc hayath Bamboo planting will be done only by the direction of governing council KuttyadiGramaPanchaya th Bamboo and			02/2021	
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(xii) Plantation on 03/2021 ChakkittaparaPanchayath River Originating area, Noticed environment flow PayyoliMunicipality Rejuv ation/cleaning of Naivaranithodu by removing slit and other solid wastes-Work in Progress ThurayurGramaPanc hayath River originating area , Noticed environmental KuttyadiGramaPanchayath Bainboo planting will be done in MGNREGS (xiii) Plantation on 03/2021 (xiii) Plantation on bothsides of theriver 03/2021 ChakkittaparaPanchayath Bamboo planting will be done in MGNREGS ThurayurGramaPanc hayath Bamboo planting will be done only by the direction of governing council KuttyadiGramaPanchayat <u>h</u> Bamboo and				00
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done in MGNREGS <u>ThurayurGramaPanc</u> <u>hayath</u> Bamboo planting will be done only by the direction of governing council <u>KuttyadiGramaPanchaya</u> <u>th</u> Bamboo and				
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<u>KuttyadiGramaPanchaya</u> <u>th</u> Bamboo and				
<u>th</u> Bamboo and				
Bamboo and				
Kamacnam planted on				
_				_
the banks of kuttiadi				
river				river

removing encroachment

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

ACTION PLAN FOR RIVER KUTTIYADI, KERALA

	KuttyadiGramaPanchayath								
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of JULY 2022	Progress in the month of AUGUST 2022	Progress in the month ofSEPTE MBER20 22	Progress in the month ofOCTOBE R2022	% works completed	Details of works remaining
D	Geo textiles at river bed	MGNREGS	31.03.201 8	100%	100%	100%	100%	100%	Completed
E	Harithasahayastapan a agreement	KuttyadiGramaPanc hayath	31.03.202 0	Completed	Complete d	Complete d	Completed	100%	Agreement signed with south side Resource Manageme nt
C(ii)	Removal of Non bio degradable waste	KuttyadiGramaPanc hayath	31.03.202 0	Completed	Complete d	100%	100%	100%	Completed
C(ii)	Clean green kuttyadi	KuttyadiGramaPanc hayath	31.03.202 0	100%	100%	100%	100%	100%	Plastic collection from home Completed
A(b)	Community toilet	Suchitwa mission	31.03.202 0					100%	Completed

C(ii)	MRF	Block panchayath	31.03.202 0	Nil	Nil	Ni	Ni	Nil	Completed
C(ii)	MCF	KuttyadiGramaPanc hayath	31.03.201 9					100%	Completed
A(b)	Sanitary latrine	KuttyadiGramaPanc hayath	31.03.201 9	50%	50%	50%	50%	95%	5%
B(ii)	Well recharging	MGNREG	31.03.201 9	Nil	Nil	Nil	Nil	Nil	Nil
Е	Camera surveillance	KuttyadiGramaPanc hayath	completed					100%	completed
Е	Rejuvenation of Kuttiyadi river	MGNREGS	31.03.202 0	50%	50%	50%	100%	100%	completed
C(ii)	Disposal of non degradable bio waste	KuttyadiGramaPa nchayath	31.03.202 0	99%	99%	99%	100%	100%	completed
Е	Clean Village	KuttyadiGramaPa nchayath	31.03.202 0	99%	99%	99%	100%	100%	completed
C(ii)	MRF	Block Panchayat	31.03.202 0	Na	Na	Na	Na	100%	completed
C(ii)	MCF	KuttyadiGramaPanc hayath	31.03.202 0	100%	100%	100%	100%	100%	completed
C(ii)	Retrofitting	KuttyadiGramaPanc hayath	31.03.202 0	100%	100%	100%	100%	100%	Nil

	VelamGramaPanchayath													
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month ofJULY 2022	Progress in the month of AUGUST2022	Progress in the month of SEPTEMBER 2022	Progress in the month of OCTOBER 2022	% works completed	Details of works remaining					
C(ii)	Govardhian Biogas plant	Velam GP	31.03.2020				100	100	completed					
C(ii)	MCF	Suchitwa mission	31.03.2020				100	100	completed					
C(ii)	Biogas plant 50 No.s	Suchitwa mission	31.03.2020											
B(ii)	Well recharge 1500 houses	MGNREGS	31.03.2020				50	50	Nil					
	Installation of Biogas plant for individual benefic iaries	Socio Economic unit Foundation	31.12.2019				5nos		0					
C(ii)	Installation of Ring compost	Socio Economic unit Foundation	31.12.2019					11	0					
C(ii)	Making compostpit	MGNREGS	31.0.2020	5					20					

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No. (as per Actio n Plan)	Activity	Implementing agency	Time line	Progress in the month of JULY2022	Progress in the month of AUGUST 2022	Progress in the month of SETEMBER2 022	Progress in the month of OCTOBER20 22	% works completed	Details of works remaining
C(ii)	MRF	Block panchayath	2019-2020	Completed	Completed	Completed	Completed	100%	Complete d
C(ii)	Biogas plant	Maruthomkar a GP	2019-2020	completed	Completed	Completed	Completed	100%	Complete d
B(ii)	Well recharge	Maruthomkar a GP	2019-2020	completed	Completed	Completed	Completed	100%	Complete d
A(b)	Sanitary complex	Maruthomkar a GP	2019-2020	completed	Completed	Completed	Completed	100%	Concrete Complete d
E	Harithasahayath apana agreement	Maruthomkar a GP	2019-2020	completed	Completed	Completed	Completed	100%	Complete d
	Biobin for home	Maruthomkar a GP	2021-2022	Completed	Completed	Completed	Completed	100%	
	Niduval River Cleaning	Maruthomkar a GP	2021-2022	Completed	Completed	Completed	Completed	100%	
C(ii)	Biogas plant	Maruthomkara GP	31.03.2020						
A(b)	Sanitary Complex	Maruthomkara GP	31.03.2020						

	PerambraGrama Panchayat													
No. (as per Actio n Plan)	Activity	Implementing agency	Time line	Progress in the month of JULY 2022	Progress in the month of AUGUST 2022	Progress in the month of SEPTEMBE R 2022	Progress in the month of OCTOBER 2022	% works completed	Details of works remaining					
E	Harithasahaya sthapana agreement	Perambragra mapanchayat h	31.03.202 0	HSS identified	HSS identified	HSS identified	HSS identified							
C(ii)	Solid waste removal	Perambragra mapanchayat h	31.03.202 0	completed	completed	completed	completed	completed	Fortnight collection of non biodegradable waste from houses is being continued					
C(ii)	Zero waste Perambra	Perambragra mapanchayat h	31.03.202 0	Completed	Completed	Completed	Completed	100%						
A(b)	Publictoilet	Perambragra ma panchayat	31.07.201 9	Commissio ned	Commissio ned	Commissione d	Commissione d	100%						
C(ii)	MCF	Perambragra ma panchayat	31.10.201 9	Commissio ned	Commissio ned	Commission ed	Commission ed	95%	Electrification tender					

KavilumparaGramaPanchayath

No. (as per Actio n Plan).	Activity	Implementin g agency	Time line	Progress in the month of JULY 2022	Progress in the month of AUGUST 2022	Progress in the month of SEPTEMBE R 2022	Progress in the month of OCTOBER202 2	% works completed	Details of works remainin g
E	Harithasahayasthapan a agreement	Kavilumpara GP	30.03.202 3	Completed	NA			100% Complete d	NA
C(ii)	Collection of non- biodegradable waste	Kavilumpara GP	30.03.202 3	Collected	Collected	Collected	Collected	100 % Complete d	
C(ii)	MCF	Kavilumpara GP	30.03.202 3	Completed	Completed	Completed	Completed	100% Complete d	NA
B(ii)	Well recharge	MGNREGS	30.03.202 3	Applicatio n Nil	Applicatio n Nil	Application Nil	Application Nil	NIL	Work Started
D	River cleaning	Kavilumpara GP	30.03.202 3	NA	NA	NA	NA	100%	

	ChakkittaparaGramaPanchayath														
No.(as per Actio n Plan)	Activity	Implementing agency	Time line	Progress in the month of JULY 2022	Progress in the month of AUGUS T 2022	Progress in the month Of SEPTEM BER202 2	Progress in the month Of OCTOBE R2022	% works comple ted	Details of works remaini ng						
D	Removal of pebbles dumped if any	MGNREGS	31.03.2020	Nil	Nil	Nil	Nil		Nil						
Е	Harithasahayastapa na agreement	ChakkittaparaGramaPan chayath	31.03.2020	Complete d	Complete d	Complet ed	Completed	100%	Nil						
C(ii)	Removal of Non bio degradable waste	ChakkittaparaGramaPan chayath	31.03.2020	Complete d	Complete d	Complet ed	Completed	100%	Nil						
A(b)	Community toilet	Suchitwa mission	31.03.2020					100%	Nil						
C(ii)	MCF	ChakkittaparaGramaPan chayath	31.03.2020					100%	Nil						
A(b)	Sanitary latrine	ChakkittaparaGramaPan chayath	31.03.2020	86.6%	86.6%	86.6%	86.6%	86.6%							
B(ii)	Well recharging	MGNREG	31.03.2020	38.4%	38.4%	38.4%	38.6%	38.6%							

Е	Rejuvenation of KuttiyadiPuzha	MGNREGS	31.03.2020	Nil	Nil	Nil	Nil	Nil	Nil
C(ii)	Disposal of non degradable bio waste	ChakkittaparaGramaP anchayath	31.03.2020	82.4%	82.4%	82.4%	82.4%	82.4%	Collecti on from MCF
Е	Clean Village	ChakkittaparaGramaP anchayath	31.03.2020	35%	35%	35%	35%	35%	
C(ii)	MCF	ChakkittaparaGramaPan chayath	31.03.2020					100%	Nil

	CheruvannurGramaPanchayath													
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of AUGUST 2022	Progress in the month of SEPTEMBER 2022	Progress in the month of OCTOBER 2022	% works completed	Details of works remaining						
E	HarithaSahayaSthapana agreement	Cheruvannur GP	31.03.2020	Completed	Completed	Completed	100%	Nil						
C(ii)	Collection of plastic waste	Cheruvannur GP	31.03.2019	Completed	Completed	Completed	100 %	Nil						
A(b)	Repairing of households toilets	Cheruvannur GP	31.03.2020	Completed	Completed	Completed	100%	Nil						

A(b)	Construction of Community toilet at Nirappam Stadium	Cheruvannur GP	31.03.2020	Completed	Completed	Completed	100%	Nil
B(ii)	Well recharging	Gramapanchayath& MGNREGS	31.03.2019	Completed	Completed	Completed	100%	Nil
A(b)	Latrine Construction	Gramapanchayath& MGNREGS	31.03.2019	Completed	Completed	Completed	100%	Nil
new	Take a break toilet cum relaxation centre	Cheruvannur GP	31.03.2022	Work Completed	Work Completed	Finishing work ongoing	95%	Nil
new	Thumburmoozhi Aerobic bin compost	Cheruvannur GP	31.03.2021				0	Construction on work

	KoorachundGrama Panchayat													
No. (as per Actio n Plan)	Activity	Implementing agency	Time line	Progress in the month of JULY 2022	Progress in the month of AUGUST 2022	Progress in the month of SEPTE MBER 2022	Progress in the month of OCTOBER 2022	% works completed	Details of works remaining					
	Setting up of MCF	Koorachund GP	31/06/2022	completed	Ongoing	Ongoing	Ongoing	95%	Ongoing					
	Collection of non degradable waste	Koorachund GP harithakarmasen a	Throughout the year	collected	collected	collected	collected	100%	Ongoing					
	Transportation of waste material	Green worms	Throughout the year	ongoing	ongoing	ongoing	ongoing	90%	Ongoing					
896	Renewal/constructi on of public toilet Take a Break	Koorachund GP MGNREGS	31/09/2022	ongoing	ongoing	ongoing	ongoing	90%	Ongoing					
859	Brook cleaning	Koorachund GP MGNREGS	31/05/2022	ongoing	ongoing	ongoing	ongoing	80%	Ongoing					
1211	Setting up of mini MCF	Koorachund GP MGNREGS	31/09/2022	ongoing	ongoing	ongoing	ongoing	65%	Ongoing					
199	Well recharge	Koorachund GP MGNREGS	Throughout the year					65%	Ongoing					
	Cleaning of AthiyodithoduThel ineerozhukumNava keralam	Koorachund GP MGNREGS	31/05/2022		Ongoing	Ongoing	Ongoing	100%	completed					

	ThiruvallurGrama Panchayat													
No. (as per Actio n Plan)	Activity	Implement ing agency	Time line	Progress in the month of JUNE 2022	Progress in the month of AUGUST 2022	Progress in the month Of SEPTEMB ER2022	Progress in the month Of OCTOBER 2022	% works complete d	Details of works remaining					
1	drainage cleaning	Thiruvallu r GP	2020-21	Completed	Completed	Completed	Completed	100%	Nil					
2	harithasahayasthaba na agreement	Thiruvallu r GP	2020-21	Completed	Completed	Completed	Completed	100%	Nil					
3	Removal of non bio degradable waste	Thiruvallu r GP	2020-21	Completed	Completed	Completed	Completed	100%	Nil					
4	Community toilet	suchitwa mission	2020-21	nil	Nil	Nil	Nil							
5	MCF	Thiruvallu r GP	2020-21	Not started	Started	Started	Started		Due to social assault work temporarily stopped.MCF functioning in a rental building					

6	non recyclable inorganic waste hand over to clean kerala company	Thiruvallu r GP	2020-21	Negotiation completed agreement to be executed with clean kerala company.	Nil	Nil	Nil		Negotiation on progress
7	Waste management project to veterinary hospital	Thiruvallu r GP	2020-21	Annual plan for waste managemen t exists.	Nil	Nil	Nil		Letter send to AE ,LSGD for preparing deep burial pit
8	Renovation of various canals	Thiruvallu r GP	2020-21	completed	Work progressing	Completed	Completed	100%	Nil
9	Toilet to schools, anganvadies and bus stand	Thiruvallu r GP	2020-21	Started	Toilet to schools completed toilet at bus stand to be started.	Started	Started		Work completed up to lintel level bus stand building construction project started

ThurayurGrama Panchayat

No.	Activity	Implementin	Time line	Progress	Progress in the	Progress in	Progress in	% works	Details of
(as per		g agency		in the	month of	the month of	the month	complete	works
Actio				month of	AUGUST202	SEPTEMBE	of	d	remaining
n				JULY	2	R	OCTOBE		
Plan)				2022		2022	R		
							2022		
	Removal of pebbles	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	dumped if any								
	Harithasahayasthaban	Thurayur GP	31.03.202	Complete	Completed	Completed	Completed	100%	Nil
	a agreement		0	d	r r		I I I I I I I I I I I I I I I I I I I		
	Removal of non bio	Thurayur GP	31.03.202	Complete	Completed	Completed	Completed	100%	Nil
	degradable waste	Thurayur Of	0	d	Completed	Completed	Completed	100 %	1111
	degradable waste		0	u					
	Community toilet	SUCHITWA	31.03.202	Nil	Completed	Completed	Completed	100%	Nil
	Community tonet	MISSION	0	1 111	Completed	completed	Completed	10070	111
		MIDDION	0						
	MCF	Thurayur GP	31.03.202		Completed	Completed	Completed	100%	Nil
			0						
(b)	Sanitary latrine	Thurayur GP	31.03.202	Nil	Nil	Nil	Nil	Nil	
		-	0						
Ii)	Well recharge	MGNREGS	31.03.202	Nil	Nil	Nil	Nil	Nil	
			0						
	Rejuvation of kuttiadi	MGNREGS	31.03.202	Nil	Nil	Nil	Nil	Nil	
	river		0						
	Disposal of non	Thurayur GP	31.03.202	70%	70%	80%	90%	90%	Collectio
	degradable bio waste	5	0						n directly
									from
									houses
	Clean village	Thurayur GP	31.03.202	Nil	Nil	Nil	Nil		
		5	0						
Ii)	MCF	Thurayur GP	31.03.202					partial	Basement
,		5		I		1		1	I

	1			complete
				d

		Mar	niyur	Grama	l Panch	hayat			
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of JULY 2022	Progress in the month of AUGUST 2022	Progress in the month of SEPTEMBER 2022	Progress in the month of OCTOBER 2022	% works completed	Details of works remaining
15	innovation of canals	MGNREGS	2020- 21	15 canals innovation completed	15 canals innovation completed	15 canals innovation completed	15 canals innovation completed	100%	Nil
68	innovation of streams	MGNREGS	2020- 21	17 streams innovation completed	17 streams innovation completed	17 streams innovation completed	17 streams innovation completed	100%	51
2	innovation of streams	Maniyur GP	2020- 21	2 streams innovation completed	2 streams innovation completed	2 streams innovation completed	2 streams innovation completed	100%	Nil
21	building up of mini MCF	MGNREGS	2020- 21	Work of 7 mini MCF completed	Work of 9 mini MCF completed	Work of 9 mini MCF completed	Work of 9 mini MCF completed	43%	12
21 wards	collection of non-bio degradable waste	HarithakarmasenaManiyur GP	2022- 23	waste in five wards was removed in December month 2020	waste in 19 th wards was removed in February month 2020	Plastic waste in five wards was removed in April month 2022	Plastic waste in five wards was removed in April month 2022	38%	Plastic waste in 16 wards

	Well recharge	MGNREGS	2020- 21		86%	24%
	~					
220	Construction	MGNREGS	2021-	10 Soakpits	2%	NIL
	of soak pit		2022	construction		
				completed		
36	Innovation of	MGNREGS	2021-	36 Streams	100%	NIL
	Streams		2022	Innovation		
				completed		
22	Construction	MGNREGS	2020-	Works of	96%	NIL
	of Mini MCF		21	22 mini		
			2021-	MCF		
			22	completed		

	(CHANGA	ROTH	GRAM	APAN	CHAYA	TH		
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of JULY 2022	Progress in the month of AUGUST 2022	Progress in the month of SEPTEM BER 2022	Progress in the month of OCTOBE R 2022	% works completed	Details of works remaining
C(ii)	Setting up of MCF	Changaroth GP	Sep-19	Completed	Completed	Started procedure acquire land from irrigation departmen t	Started procedure acquire land from irrigation departmen t	Completed	Completed

C(ii)	Collection of non- biodegradable waste	Haritha karma sena	throughout the year	175kg	300kg	275kg	275kg	-	-
C(ii)	Bio gas plants for house hold	Changaroth GP	Nov-19	Completed	Completed	100%	100%	100%	Completed
C(ii)	Ring compost unit	Changaroth GP	Dec-19	Completed	Completed	Completed	Completed	100%	Completed
C(ii)	Plastic shredding unit	Changaroth GP	Mar-20	Dropped	Dropped	Dropped	Dropped	Dropped-	Dropped
A(b)	House hold sanitary units	Changaroth GP	Jan-20	99%	99%	99%v	99%v	-	ongoing
C(ii)	Transportation of waste material to refinement unit	Changaroth GP	Sep-19	Completed	Completed	Completed	Completed	Completed	ongoing
C(iii)	Bamboo Cultivation river banks	MGNREGS	31.03.2020	No progress	No progress	No progress	No progress	canceled	Unavailabi lity of bamboo plants

		PAY	YOL	I MUNC	TIPALI	ΓΥ			
No.	Activity	Implementin	Time	Progress in	Progress in		Progress in	% works	Details
(as per		g agency	line	the month of	the month	Progress	the month	completed	of works
Action				JULY2022	of	in the	of		remainin
Plan)					AUGUST	month of	OCTOBER		g
					2022	SEPTE	2022		
						MBER			
						2022			

Included in the water shed area based development master plan.A municipal level committee formed for monitoring	Payyolimuni cipality,Irrig ation department	31.12.2 021	Preparing the estimate	Preparing the estimate	Preparin g the estimate	Preparing the estimate	NA	Work in progress
Establishment of 2000units of ring compost	Payyoli municipality	31.03.2 021	NA	NA	NA	NA	NA	Work in progress
Establishment of 500 units of bio gas plant	31.03.2021	NA	NA	NA	NA	NA	NA	Work in progress
Establishment of 5000units of bio bin	Payyoli municipality	31.03.2 021	NA	NA	NA	NA	NA	Work in progress
A contract agreement has been signed between municipality and fresh cut organic pvtltd,arentering plant functioning at Ambayathode,Thamarass ery for the scientific treatment of chicken stall waste generated	Fresh cut organic pvt ltd	04.09.2 020	100% chicken waste collected	100% chicken waste collected	100% chicken waste collected	100% chicken waste collected	100%	Complet ed
Implementation of green protocol	Payyoli municipality	30.06.2 020	Completed	Completed	Complet ed	Completed	100%	Complet ed
Rejuvation/cleaning of Naivaranithodu by removing slit and other solid wastes	Payyoli municipality	31.3.20 21						Work in progress

Collection of plastic/non	Harithakarm	Ongoin	Collection	Collection	Collectio	Collection	25%	NA
bio degradable house	asena	g	started in	started in	n started	started in		
hold waste			13wards	13wards	in	13wards		
					13wards			
Action taken against	Payyoli	Contin	20notice	20notice	20notice			NA
littering in public places	municipality	uing	issued.Fined	issued.Fine	issued.Fi			
			-Rs.30190/-	d -	ned -			
				Rs.30190/-	Rs.3019			
					0/-			

Irrigation Department

No. (as per Action	Activity	Implementing agency	Time line	Progress in the month of JUNE 2022		
Plan)					2022	0
E	Salt water Extrusion - Construction of RCB upstream of Perincherikadavu across Kuttiady river (Gulikapuzha) in Kozhikode District	Irrigation Dept	July 31 2022			
C(ii)	Fencing the sides of Bridges to prevent dumping of wastes - 5 no's	Irrigation Dept	July 31 2022			

	0.00	_	_	_	_	_	_	_	_	version.3	analogich org	-							3	010	100	_
-		-	-	_	(r)	-	_	-		ANALYSIS	REPORT	OF RIVER	WATER	t i						1	-	30
Re	port No.	ĸ	R	0	S	4	4	7 :	2 /	1 to 8				Date	e:	2	5	1	0	2	0 3	2 2
D	ate of Sample Collection	0	1	1	0	2	0	2	2		Date of	receipt o	f the sam	nple		0	1	1	-	-	0 3	+-
-	and the second s	1		_	L						Time				_	Ho	urs:	1	7	:	0 0	
1994	The state of the state						RL	.HHC	1		Sample	ID			-	D51	,DS2,I	053	05			
Sar	Port No. K R O Atte of Sample Collection 0 1 1 npled by:		AP	HAJ	060	8,8		Sample	Lab Code		-	_	57 & D58 KROS 4472/1-8									
Sar	Image: container K R O rate of Sample Collection 0 1 1 mpled by:			PC	2.51			Ref.lette	er No.			-	PERK	KD/DO/	Niles	_	-	ukda	# Yor			
Sau					-		1	Receive	d from:	-		_	(V, De	nd 16.10.	1001	_		_				
					41	TEA	018	OVER	WW.	ER	Provide and a second second	f analysis	i:		-		DO, KR	-	1.00		-	_
						60	en.	uni-	in.		No. of s				-	8	CANES.	14.11	1.414	**	-	-
	20020		_	_	_						Analyse			-	-	BRS	CVR/	NR.	1	-		-
							lça	bax		-	Method:St AWWA WE	andard Met F (22 ^{NE} Ed.)	hods for the	e maninati	on af	Water	and W	asta	wat	#r, /	РНА	-
el no	Param	ete	rs.			1		nit	Me	thod No.			1	SAMPLE	ID	-		-	-	-	-	-
1			-	-	-	+	-	_	-	1000000	DS1	DS2	DS3	DS4	5	\$5	DSG	1	05	7	DS	8
		-	_	_	_	+		-	APH	4.4520-11+,8	6.9	6.95	6.79	6.57	6	57	0.54		6.5		6.8	1
2						ľ	inte	1.00	-44	HA 25108	28.0	24.8	38	23.85	2	2.27	29.6	4	2.3	0	34	8
1	BOD	_	_	_		1	- 17	pi.	1930	25 (Part 44)	0.2	0.63	1.13	1.06	0	266	0.73	1	1.06	+	0.06	16
1	DISSOLVED OXY	GE	N				-	μ	APH	A 4550-0,C	6	8.2	8.2	7.8		8	8.2	7	.33		7.1	1
	and the second second second	1.75.				0	PW/3	00m	49	HA 92228	520	610	400	900	2	60	620	8	200	1	780	0
	a second second providence	2.57.5				0	NV:	00mi	3.0	HA 92220	190	240	210	380	1	50	400	-	100	+	600	-
		00	CC	US		0	14/15	00=1	AP	HA \$230 C	30	50	100	60	h	11	20	-	180	+	50	2
2	TEMPERATURE						1	611	40	HA 25528	29	30	29	27		16	27	-	28	+	27	_

Remarks: LOL-Lower Detectory Limit . BDL-Bettye Detection Limit

ORCAS

NEI

261922

DS1-KUTTYADI RIVER NEAR MARUTHOMKARA-DRAINAGE MOUTH, DS2-KUTTYADI RIVER AT PUZHAYORAM HOTEL, DS3-KUTTYADI RIVER NEAR PARK RESIDENCY HOTEL, DS4-KUTTYADI RIVER AT JANAKI FOREST, DS5-KUTTYADI RIVER NEAR PERUVANNAMUZHI DAM, DS6-KUTTYADI RIVER AT GULIKAPUZHA DRAIN MOUTH, DS7-KUTTYADI RIVER AT KADIYANGAD RIVER & DS8-KUTTYADI RIVER BEHIND KSRTCDEPOT, THOTTILPALAM

10:2022 Scientist in charge

of The Environmental

			aning mu a	Product and the second	ាំង-៤ ៣៣ ៣ ខែរដ្ឋមានជាតិ ៤	watering of						0	al	the co	CALIC 25/1		181 0
Pe	port No.			ANALYSIS R	EPORT OF	RIVER WA	TER				1.00	10	SI	ate	Pollut		
-		KROR	4471	8 / 1 to 5		_	C.	Date:	2	5	1 0	2 0	2	2	Unit	the f	2
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Sar	mpled by:				Time			-	Hou	150 1	6	: 3	0	-	1		
202	141012-240		RL XXC		Sample 1	D			KI.1,	KL2.	K1.3,	KLS,	ΔK	1.6	1		
Sat	mpling Method		APHA1060	B,a	Sample I	ab Code			-		8/1-5	-	-	-	1		
Sat	nple container		PC281		Ref.letter	No.			PCBAD	0.00	Polland 10.1020	lives	inte	2018			
Sou	irce:	K	ALLAN RIVER	WATER	Received Period of	from: analysis:		_	EE,D		design of the local division of the local di						
	cific sampling		-		No. of sa	and the second se			6	2022	15.10	3022	_	_			
			GIVEN MELC	2011	Analysed	by:			BRS/	CVR/	CNR		-	-	1		
	nple servation:		Ice box		Method:Star AWWA WEF	idard Method (22 ^{ne} 8d.)	s for the exami	ination a	f Wat	er an	I Wast	ewate	ir, A	PHA			
ić na	Param	eters.	unit	Method No.			SAHP	UE ID				-	-				
	eH.			APHA 4500-H+ .8	KL 1	KL 2	KL 3	KI	. 5	1		KL 6	5				
-	CONDUCTIVITY		-		0.0	6.92	7.1	7.	24			7,44			1.1		
	BOD		101564 2015	APHA 25108	2311	8726	5795	28	180		2	9080	3				
	DISSOLVED DXY	OEN	rigit.	153025 (Part 44)	2.868	2.1	4.468	2.0	68	T		1.868					
	TOTAL COLIFOR	Sector -	Harris .	APHA 4500-D,C	7.6	5.3	5.53	5.	33			6.26			-		
-		<u></u>	CPU/306ml	AFHA 92229	28000	22000	38000	950	000			9200					
-	FECAL COLIFOR	Setting and the second	CPU/100ml	APHA 02330	20000	17000	22000	820	000		1	9000					
	FECAL STREPTO	COCCUS	CPW100m	АРНА 9230 С	200	400	800	14	00	1	-	160	-	-			
	TEMPERATURE	and a constant of	10	APHA 29508	27	27	27	2	8	+-	-	27	-	-			

26/11/22



Remains LDL-Lower Detection Unit, BDL-Below Detection Unit

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

Ner

10:0002 Scientist in charge

National Mission for Clean Ganga

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

RIVER KUPPAM, KANNUR

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT-
NO.			Compliance status
1	Ensure 100% treatment of sewage at least in-situ		Almost all residence and commercial
	remediation		establishments have their own insitu sewage
			remediation
	Commencement of setting up of STPs and connecting all		A common STP is at Taliparamba
	the drains and other sources of generation of sewage to		
	the STPs must be ensured		
2	Timeline for completing all steps of action plans including	31.03.20	
	completion of setting up STPs and their Commissioning	21	
5	Chief Secretaries may set up appropriate monitoring		
	mechanism at state level		
	• Specifying accountability of nodal authorities not		
	below the Secretary level		
	• Chief Secretaries may have an accountable person		
	attached in their office for this purpose		
	 Monitoring at State level must take place 		
6	Progress report may be furnished by the State/UTs to	Monthly	
	 Secretary, Ministry of Jal Shakti 	before	
	Member Secretary,CPCB	20 th of	
		every	
		month	

6.1	Progress Report may be comprised of details along with completion timelines on:(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.	
	 (II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline 	
	 (III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status 	
	(iv) <u>Status of Solid Waste Management & Details of</u> <u>Processing Facilities</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline	

<u>MADAYI</u>

16 soak pit completed **UDAYAGIRI**

Identified drains already cleaned before commencement of monsoon by harithakarmasena in local bodies

MADAYI

100 ring compost Unit supplied, placed order for 96 units of Ring Compost (for bio degradable waste disposal) Non bio degradable waste is collecting through Haritha Karma sena and handed over to RRF **Udayagiri** Compost pit -105 completed Biogas -39 completed Soak pit -18 completed **PATTUVAM** Ring compost -150 (v)Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.

(vii)Ground water regulation

(viii) Adopting good irrigation practices

(ix) Protection and management of food plain Zones (FPZ)

(x) Rain water harvesting

(xi)Maintaining minimum Environmental flow of river

(xii) Plantation on both sides of the river

(xiii)Setting up biodiversity parks on flood plains by

Pipe compost-600 Biogas plant-25 Compost pit -100 Thumboor muzhi-1

Lab report is attached

<u>MADAYI</u>

ONGOING Udayagiri

Door to door collection of biodegradable waste is collected by local body and measures for disposing biodegradable waste is practising.All existing HCF are disposing their bmw through CBMWTF

<u>Pattuvam</u>

Door to door collection of biodegradable waste is collected by local body and measures for disposing biodegradable waste is practising.All existing HCF are disposing their bmw through CBMWTF

removing encroachment	

ACTION PLAN FOR RIVER KUPPAM, KERALA

Ref para no:48 as	Activity	Implementing Agency	Time	Progress in the	Progress in the	Progress in the	% works	Details of
per NGT			of Completion	month of	month of	month of	completed	works
order			or completion	December 2020	August 2021	October 2022		remaining
673/2018 dated:2 0.0								
0.0 9.2018								
				Udayagiri G	GP			
		Udaya giri GP				Completed		
A (b)	Sanitation Fa		03/2020					
	Biodegradabl	ewas Udaya giri GP	Ongoing					
C (ii)	tedisposa		project					
o ('')	Non bio	Clean kerala Compar	Ongoing					
C (ii)	degradable Waste Dispos		project					
_		Youth, Asha workers	Ongoing project	:				
E	Awareness	and other stake						
		holders						
			Ch	apparappadavu	I GP		1	
		Chapparappadavu GP	06/2019		Not	Not		
A (b)	Sanitation Fac	ility			reported	reporte d		
		Ward Sanitation	12/2019					
C (ii)	Biodegradable tedisposal	ewas Committee ofLocalBod	y					
	Non bio	Local body (Haritha						
C (ii)	degradable W Disposal	aste Local body (Haritha Karma Sena)	03/2020					

E	Awa	reness	Youth, Asha workers and other stake holders	03/2020 (Will extend if necessary)				
				ľ	Pariyaram Pancha	iyat		
A (b)	Sani	tation Facility	Pariyaram Panchayat	03/2020	298 ring compost installation going to start	Not reported	Not reporte d	
				03/2022	ongoing			
C (ii)		egradablewas sposal						
C (ii)	degi	Non bio radable Waste Disposal	Pariyaram Panchayat	On going project				
E	Awa	reness	Youth, Asha workers and other stake holders	Whenever necessary				
A (b)	illeg	ntification of al outlets in to drains and oppage of the	Pariyaram Panchayat	09/2019				
A (b)		same						
					Madayi GP			
A (b)	Sanii	tation Facility	Local Body	2022				
			Ward Sanitation	Bio bins, pit compost -2022		100 Ring compost	Order placed	

C (ii)	Biodegradablewas tedisposal	Committee of Local body	Thumpoormuzhi = 2020		unit supplied	for anothe r 96 units Tender approv	_	
						ed and gave supply order		
C (ii)	Non bio degradable Waste Disposal	Haritha Karma sena	Ongoing project			ONGOI NG		
E	Awareness	Youth, Asha workers and other stake holders	Ongoing project			ONGOI NG		
	Identification of illegal outlets in to drains and	Local Body	2022					
A (b)	stoppage of the same				·			
			Thalip	paramba Munici	ipality			
A (b)	Sanitation Facility	Municipality				Not reporte d		
C (ii)	Biodegradablewas tedisposal							
C (ii)	Non bio degradable Waste Disposal	Haritha Karma sena						
E	Awareness	Youth, Asha workers and other stake	Once in a month					

			holders				
					Pattuvam GP		
E	Awarer	ness	Youth, Asha workers and other stake holders	Whenever necessary			
C (ii)	plast from	nova l of tic wastes I the river bank					

Action Plan by Irrigation Department

Sl no		Implementing	Time for	Progress in	Progress in	Progress in	% works	Details
	Activity	Agency	completion	the month of	the month	the month of	completed	of
				May 2022	ofJune 2022	July 2022		works
								remaini
								ng
1	Providing fencing on Kuppam bridge (NH) across Kuppam river at Thalipparamba in Thalipparamba Municipality	Irrigation department	2021	letter No.752 dtd 30/09/20 Government, DSR instead o estimate amo	PR submitted f 755/C1/16/WI 20 of the Addi the estimate v of observed dat ount was 43 lak for FS Rs.56 lak	RD Thiruvanan tional Chief Se was recasted w ta items. So the chs only. Now t	thapuram cretary to vith items in e new the DPR is	
2	Rejuvanation of Kuppam River - Flood plain Zone management : Construction of Marginal Earthen Bund at peringeel In Ezhome Grama Panchayath (PRICE ID : 2019/10484/IA)	Irrigation Department	2021	technical stue No.752755/C	all not be consi dy is conducted 1/16/WRD Thi of the Addition	d (Vide letter ruvananthapu	ram dtd	

3	Greenery development- Plantation plan. Plantation on both sides of the river, setting up biodiversity parks on flood plains by removing encroachment	Irrigation Department	3 years	In order to identify the land for plantation on both sides of the river, the boundary of government land should be fixed by the Revenue Department. Eviction of encroachment should be done. For the same, District collector Kannur has already been addressed from this office and subsequent bio cover works and planting trees have to be done by social forestry department
4	Rejuvanation of Kuppam River - Maintaining E- Flow : Desilting of Kuppam river in Various Stretches in Chapparapadavu Grama Panchayath (PRICE ID : 2019/10517/IA)	Irrigation Department	3 years	Initially the DPR was submitted for 30 lakhs. But as per the letter No.752755/C1/16/WRD Thiruvananthapuram dtd 30/09/2020 of the Additional Chief Secretary to Government, the estimate was recasted for an amount of 10.40 lakhs as per DSR 2016 by assessing the quantity of silt by scientific method. Since DSR 2018 was introduced, DPR was resubmitted for an amount of Rs. 12.80 lakhs for FS . The work includes desilting from Kooverikkadavu and Kattamballikkadavu. The "Room for River" campaign was launched to remove silt from all 44 rivers in Kerala in 2022. The work, Rejuvanation of Kuppam River - Maintaining E- Flow is coming under Rejuvenation of Kuppam river under Room for River programme. The Executive Engineer , Inland Navigation Division, Kannur was in charge of the Kuppam River. The work of silt removal from Kooverikkadavu is completed and was executed by the Assistant Engineer, Inland Navigation Section, Kannur. Since sand deposit was identified at Kattampallikkadavu, it was not removed under "Room for River" campaign . It should be done after sand audit and the procedure should be followed and it cannot be executed as a work by tender method. So this work may be treated as completed.

Combined ActionPlan

		Agency	Timeline	Progress in	Progress in	Progress in	% works	Details of
	Proposed action			the month	the month	the month	completed	works
				of	of	of		remaining
				December	January	February		
				2020	2021	2021		
1	Providetoilets to residences with treatment and disposal system for sewage and sullage	Local Body						
2	Construction of new community toilets with treatment system	All local bodies SuchitwaMission, Revenue department	Proposed Construction Of new community Toilet at satellite points on the bank ofriver					
3	Entry of rain water and rain water recharging to all channels and drain	All local bodies , Kerala Water Authority	Drains are inspected before rain and all channels and stream are cleaned once in a year					
4	Sanitary facility in hotels (around 7) one hospital,Establishments situated in the ward for the segregation, treatment and disposal of solid wastes as per SolidWastesManagementRules,20 16	Pollution Control Board ,Health department	Check they have board consent and sanitation facility is provided					
5	Adequate number of kitchen bins shall beprovided	Municipalities and local bodies	One project year					
6	Providing proper waste handling facility. For wastewater and solid wastes	Local body	One project year					

7	Rendering plant for poultry wastes	Local body	As per their project and fund availability			
8	Slaughter house waste disposal facility	Local body	One common slaughter house for 3 to 4 local body			
9	Strict monitoring of disposal of waste(sewage, sullage, degradable waste, non- biodegradable waste) surveyed area and also in the catchment of theriveri)Verify Whether consent to operate of the Board exists	Pollution Control Board	Six months			
10	Sanitation survey is to be conducted for 100m on either sides of the other parts of polluted stretch if any located nearby	Pollution Control Board	Six months			
11	Awareness for residence association:	Suchitwamission/L SGD/Corporation	Once in a month			

Action Plan by Ground WaterDepartment

SI.No	Ref para no:48 as per NGT order 673/2018 dated:20. 09.2018	Activity	Progress in the month of December 2020	month of	Progress in the month of February 2021	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over expolited as critical zones/blocks					

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

National Mission for Clean Ganga

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	the STPs must be ensured		
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5	Chief Secretaries may set up appropriate monitoring		
	mechanism at state level		
	• Specifying accountability of nodal authorities not		
	below the Secretary level		
	• Chief Secretaries may have an accountable person		
	attached in their office for this purpose		
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6	Progress report may be furnished by the State/UTs to	Monthly	
	 Secretary, Ministry of Jal Shakti 	before	
	Member Secretary,CPCB	20 th of	
		every	
		month	

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	 (III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure,Gap Analysis, Proposed along with completion timeline, No. of industries and complying status 	
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removing encroachment	

ACTION PLAN FOR RIVER KUPPAM, KERALA

Ref para no:48 as	Activity	Implementing Agency	Time	Progress in the	Progress in the	Progress in the	% works	Details of
per NGT			of Completion	month of	month of	month of	completed	works
order			or completion	December 2020	August 2021	October 2022		remaining
673/2018 dated:2 0.0								
0.0 9.2018								
				Udayagiri G	GP			
		Udaya giri GP				Completed		
A (b)	Sanitation Fa		03/2020					
	Biodegradabl	ewas Udaya giri GP	Ongoing					
C (ii)	tedisposa		project					
o ('')	Non bio	Clean kerala Compar	Ongoing					
C (ii)	degradable Waste Dispos		project					
_		Youth, Asha workers	Ongoing project	:				
E	Awareness	and other stake						
		holders						
			Ch	apparappadavu	I GP		1	
		Chapparappadavu GP	06/2019		Not	Not		
A (b)	Sanitation Fac	ility			reported	reporte d		
		Ward Sanitation	12/2019					
C (ii)	Biodegradable tedisposal	ewas Committee ofLocalBod	y					
	Non bio	Local body (Haritha						
C (ii)	degradable W Disposal	aste Local body (Haritha Karma Sena)	03/2020					

E	Awa	reness	Youth, Asha workers and other stake holders	03/2020 (Will extend if necessary)				
				ľ	Pariyaram Pancha	iyat		
A (b)	Sani	tation Facility	Pariyaram Panchayat	03/2020	298 ring compost installation going to start	Not reported	Not reporte d	
				03/2022	ongoing			
C (ii)		egradablewas sposal						
C (ii)	degi	Non bio radable Waste Disposal	Pariyaram Panchayat	On going project				
E	Awa	reness	Youth, Asha workers and other stake holders	Whenever necessary				
A (b)	illeg	ntification of al outlets in to drains and oppage of the	Pariyaram Panchayat	09/2019				
A (b)		same						
					Madayi GP			
A (b)	Sanii	tation Facility	Local Body	2022				
			Ward Sanitation	Bio bins, pit compost -2022		100 Ring compost	Order placed	

C (ii)	Biodegradablewas tedisposal	Committee of Local body	Thumpoormuzhi = 2020		unit supplied	for anothe r 96 units Tender approv	_	
						ed and gave supply order		
C (ii)	Non bio degradable Waste Disposal	Haritha Karma sena	Ongoing project			ONGOI NG		
E	Awareness	Youth, Asha workers and other stake holders	Ongoing project			ONGOI NG		
	Identification of illegal outlets in to drains and	Local Body	2022					
A (b)	stoppage of the same							
			Thalip	paramba Munici	ipality			
A (b)	Sanitation Facility	Municipality				Not reporte d		
C (ii)	Biodegradablewas tedisposal							
C (ii)	Non bio degradable Waste Disposal	Haritha Karma sena						
E	Awareness	Youth, Asha workers and other stake	Once in a month					

			holders				
					Pattuvam GP		
E	Awarer	ness	Youth, Asha workers and other stake holders	Whenever necessary			
C (ii)	plast from	nova l of tic wastes I the river bank					

Action Plan by Irrigation Department

Sl no		Implementing	Time for	Progress in	Progress in	Progress in	% works	Details
	Activity	Agency	completion	the month of	the month	the month of	completed	of
				May 2022	ofJune 2022	July 2022		works
								remaini
								ng
1	Providing fencing on Kuppam bridge (NH) across Kuppam river at Thalipparamba in Thalipparamba Municipality	Irrigation department	2021	Initially the DPR submitted for 45lakhs. But as per the letter No.752755/C1/16/WRD Thiruvananthapuram dtd 30/09/2020 of the Additional Chief Secretary to Government, the estimate was recasted with items in DSR instead of observed data items. So the new estimate amount was 43 lakhs only. Now the DPR is resubmitted for FS Rs.56 lakhs as per DSR 2018.				
2	Rejuvanation of Kuppam River - Flood plain Zone management : Construction of Marginal Earthen Bund at peringeel In Ezhome Grama Panchayath (PRICE ID : 2019/10484/IA)	Irrigation Department	2021	This work shall not be considered until adequate technical study is conducted (Vide letter No.752755/C1/16/WRD Thiruvananthapuram dtd 30/09/2020 of the Additional Chief Secretary to Government				

3	Greenery development- Plantation plan. Plantation on both sides of the river, setting up biodiversity parks on flood plains by removing encroachment	Irrigation Department	3 years	In order to identify the land for plantation on both sides of the river, the boundary of government land should be fixed by the Revenue Department. Eviction of encroachment should be done. For the same, District collector Kannur has already been addressed from this office and subsequent bio cover works and planting trees have to be done by social forestry department
4	Rejuvanation of Kuppam River - Maintaining E- Flow : Desilting of Kuppam river in Various Stretches in Chapparapadavu Grama Panchayath (PRICE ID : 2019/10517/IA)	Irrigation Department	3 years	Initially the DPR was submitted for 30 lakhs. But as per the letter No.752755/C1/16/WRD Thiruvananthapuram dtd 30/09/2020 of the Additional Chief Secretary to Government, the estimate was recasted for an amount of 10.40 lakhs as per DSR 2016 by assessing the quantity of silt by scientific method. Since DSR 2018 was introduced, DPR was resubmitted for an amount of Rs. 12.80 lakhs for FS . The work includes desilting from Kooverikkadavu and Kattamballikkadavu. The "Room for River" campaign was launched to remove silt from all 44 rivers in Kerala in 2022. The work, Rejuvanation of Kuppam River - Maintaining E- Flow is coming under Rejuvenation of Kuppam river under Room for River programme. The Executive Engineer , Inland Navigation Division, Kannur was in charge of the Kuppam River. The work of silt removal from Kooverikkadavu is completed and was executed by the Assistant Engineer, Inland Navigation Section, Kannur. Since sand deposit was identified at Kattampallikkadavu, it was not removed under "Room for River" campaign . It should be done after sand audit and the procedure should be followed and it cannot be executed as a work by tender method. So this work may be treated as completed.

Combined ActionPlan

		Agency	Timeline	Progress in	Progress in	Progress in	% works	Details of
	Proposed action			the month	the month	the month	completed	works
				of	of	of		remaining
				December	January	February		
				2020	2021	2021		
1	Providetoilets to residences with treatment and disposal system for sewage and sullage	Local Body						
2	Construction of new community toilets with treatment system	All local bodies SuchitwaMission, Revenue department	Proposed Construction Of new community Toilet at satellite points on the bank ofriver					
3	Entry of rain water and rain water recharging to all channels and drain	All local bodies , Kerala Water Authority	Drains are inspected before rain and all channels and stream are cleaned once in a year					
4	Sanitary facility in hotels (around 7) one hospital,Establishments situated in the ward for the segregation, treatment and disposal of solid wastes as per SolidWastesManagementRules,20 16	Pollution Control Board ,Health department	Check they have board consent and sanitation facility is provided					
5	Adequate number of kitchen bins shall beprovided	Municipalities and local bodies	One project year					
6	Providing proper waste handling facility. For wastewater and solid wastes	Local body	One project year					

7	Rendering plant for poultry wastes	Local body	As per their project and fund availability			
8	Slaughter house waste disposal facility	Local body	One common slaughter house for 3 to 4 local body			
9	Strict monitoring of disposal of waste(sewage, sullage, degradable waste, non- biodegradable waste) surveyed area and also in the catchment of theriveri)Verify Whether consent to operate of the Board exists	Pollution Control Board	Six months			
10	Sanitation survey is to be conducted for 100m on either sides of the other parts of polluted stretch if any located nearby	Pollution Control Board	Six months			
11	Awareness for residence association:	Suchitwamission/L SGD/Corporation	Once in a month			

Action Plan by Ground WaterDepartment

SI.No	Ref para no:48 as per NGT order 673/2018 dated:20. 09.2018	Activity	Progress in the month of December 2020	month of	Progress in the month of February 2021	% works completed	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over expolited as critical zones/blocks					

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

National Mission for Clean Ganga

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

RIVER PERUVAMBA, KANNUR

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT-
NO.			Compliance status
1	Ensure 100% treatment of sewage at least in-situ		All houses and establishments have their own
	remediation		disposal
			facility
	Commencement of setting up of STPs and connecting all		No STP Proposal
	the drains and other sources of generation of sewage to		
	the STPs must be ensured		
2	Timeline for completing all steps of action plans including	31.03.20	Some of the works in action plan is completed
	completion of setting up STPs and their Commissioning	22	already and some are ongoing as informed by
			local bodies.
5	Chief Secretaries may set up appropriate monitoring		
	mechanism at state level		
	• Specifying accountability of nodal authorities not		
	below the Secretary level		
	• Chief Secretaries may have an accountable person		
	attached in their office for this purpose		
	Monitoring at State level must take place		
6	Progress report may be furnished by the State/UTs to		
	 Secretary, Ministry of Jal Shakti 		

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-	ress Report may be comprised of details along with	
	oletion timelines on:	There are 5 natural drains meeting the river, of
(I) Ide	entification of polluting sources including drains	which 3
COI	ntributing to river pollution and action as per NGT	drains cleaned.
ord	der on in-situ treatment.	1.Parappa Thodu (Ward 6)- 1 Km.
		2.Chennakki Thodu (Ward 8) – 1.3 Km.
		3.Kallayi Thodu (Ward 3&4) – 1 Km.
		Two are partly cleaned and the cleaning work
		is in
		progress.
(II) <u>St</u>	tatus of STPs, I&D and sewerage networks_Details of	1.Manthan Thodu (Ward 6) -1 Km
Ex	xisting Infrastructure,Gap Analysis, Proposed along	2.Ambachikundu Thodu (Ward 15) – 500 M
w	vith completion timeline	(The work is slowly ongoing due to the higher
		level of
(III) <u>St</u>	tatus of CETPs	water in stream, 40% Completed)
D	etails of Existing CETP and ETP Infrastructure,Gap	
A	nalysis, Proposed along with completion timeline,	
N	 of industries and complying status 	
(iv) <u>St</u>	atus of Solid Waste Management & Details of	
Pro	ocessing Facilities	
D	etails of Existing Infrastructure,Gap Analysis,	
P	roposed along with completion timeline	
(v) La	atest water quality of polluted river, its tributaries,	
d	rains with flow details and ground water quality in	

the catchment of polluted river;	
vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.	
(vii)Ground water regulation	
(viii) Adopting good irrigation practices	
(ix) Protection and management of food plain Zones (FPZ)	
(x) Rain water harvesting	
(xi)Maintaining minimum Environmental flow of river	
(xii) Plantation on both sides of the river	
(xiii)Setting up biodiversity parks on flood plains by removing encroachment	

ACTION PLAN FOR RIVER PERUVAMBA, KERALA

				Action Pla	an of LocalB	ody		
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of December 2020	Progress in the month of August 2021	Progress in the month of JULY2022	% works completed	Details of works remaining
A(b)	Sanitation Facility STP proposed at market place	PayyannurMuncipalit Y	2021	nil	nil	nil	nil	Sewage Treatment Plant –DPR Prepared. Waiting for the approval of Suchitwa mission
C(ii) C(ii)	Biodegradable waste disposal Bio bins (2061) Pit Compost (10992) Bio gas Plant (687) Non biodegradable	PayyannurMuncipa lity PayyannurMuncipa	2020 Ongoing	0	0	0	80%	Project implementat ion in progress MCF & RRF
-(,	Waste Disposal MCF and RRF	lity	01120112					in function
E	Awareness Youth, Asha workers	PayyannurMuncipa lity	Ongoingproj ect	90%	100%	100%	ongoi ng	Completed

	and other stake holders and HarithasahayaSamith i					
A(b)	Sanitation Facility Scientific Septic Tank and Soak pit	Kunhimangalam Panchayath	2019	Not reporte d	-	
C(ii)	Biodegradable waste disposal Bio bins, Pit Compost, Bio gas Plant	Kunhimangalam Panchayath	Every year project			
C(ii)	Non biodegradable Waste Disposal MCF	Kunhimangalam Panchayath	Ongoing project			
E	Awareness Youth, Asha workers and other stake holders	Kunhimangalam Panchayath	Once in a month			
E	Side wall protection of drains	Kunhimangalam Panchayath	12/2019			
E	Installation of CCTV camerasat major points	Kankol – Alappadamba GP	2019			
C(ii)	Biodegradable waste disposal Bio bins, Pit Compost, Bio gas	Kankol – Alappadamba GP	Ongoing			

	Plant (2460 Nos)							
C(ii)	Non Biodegradable waste disposal MCF	Kankol – Alappadamba GP	Ongoing					
E	Awareness Youth, Asha workers and other stake holders	Kankol – Alappadamba GP	Once in a month					
A(b)	Sanitation Facility No markets and houses on the bank	Ramanthali GP		Availab le	Availab le	Availab le	80%	
C(ii)	Non Biodegradable waste disposal MCF and sending to RRF	Ramanthali GP	2020	no	Yes	yes	100%	
E	Drain Cleaning and Side protection	Ramanthali GP	2022	Done	Done	Done	100%	
E	Awareness Youth, Asha workers and other stake holders	Ramanthali GP	2022	Done	Done	Done	100%	
C(ii)	Bio degradable waste disposal Ring Compost – 1000 Nos Compost Pit – 2000 Nos Biogas Plant – 100	Ramanthali GP	2022	Ring Compo st- 100 Compo st Pit –	Ring Compo st- 100 Compo st Pit –	Ring Compo st- 290 Compo st Pit –	100%	

	Nos			15	0	0		
				Biogas	Biogas	Biogas		
				Plant-	Plant –	Plant –		
				10	0	0		
			Action	Plan by Ir	rigation D	epartmen	ıt	
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of May 2022	Progress in the month of June2022	Progress in the month of July 2022	% works completed	Details of works remaining
E	Providing fencing on Perumbabridge (NH) across Perumbariver at Payyannur in Payyannur Municipality	Irrigation department	2021	But as per the 30/09/2020 o estimate was items. So the for FS for an a	f the Additiona recasted with i estimate prepa mount of 20.5	or 22lakhs. 255/C1/16/WRE I Chief Secretar tems in DSR ins red as per DSR Lakhs. Now the itted for FS Rs.2	y to Governm tead of obser 2016 and DPR new estimate	ent, the ved data submitted
E	Desilting and reconstruction of salt water exclusion cross bar across perumbathodu in Payyannur Municipality MI Class II Plan	Irrigation Department		serious environr SWECB is not en government anc Hence now only	urroundings .If t osed , the pollut nental problems vironmentally fe l only fresh wate desilting the tho	he existing SWE ed water will sta will be created. asible. If treatme r releases to tho	CB was reconst gnated at the u Hence at prese ent facility is pr du the SWECB this estimate a	ructed and its pstream side and nt reconstruction of

E	Desilting and repair of salt water exclusion cross bar across Koykottuvayal thodu inKunhimangalam Panchayath State Disaster Response Fund	Irrigation Department	2020	Work completed under SDRF scheme by MI Division Kannur.
E	Regulating activities in flood plain zone, protection and management of flood plain zone Protection and management of flood plain zone for a period of 3 years with a fund of 0.50 crores	Irrigation Department		As per the observation forwarded from the government on submitted DPR vide No.757555/C1/16/WRD, dated 30.09.2020, This work shall not be considered until adequate study is conducted.
E	Greenery		3 years	To ascertain the encroachment if any and Purambokk along the polluted river stretch for the proposed work, land to be demarcated by the Revenue authorities after necessary boundary survey. For the same, District collector Kannur has already been addressed from this office and subsequent bio cover works and planting trees have to be done by social forestry department.

	bank of the river will be completed within 3 years from the commencement of works with a fund of 0.40 crores								
E	Issues relating to E- flow, maintaining minimum environmental flow of river(by having watershed management provisions) By Micro watershed managemen t for a period of 2 years with a fund of 0.25 Crore from the available fund	Department	2 years	Initially the DPR submitted for 25 lakhs. But as per the letter No.752755/C1/16/WRD Thiruvanamthapuramdtd 30/09/2020 of the Additional Chief Secretary to Government and as per the present site condition of the proposed stretch, the estimate was recasted and renamed accordingly. The quantity of silt is assessed by scientific method. So the estimate prepared as per DSR 16 DPR submitted for FS for an amount of 10.70 lakhs.Now the new estimate prepared as per DSR 18 and DPR submitted for FS for 13.60 lakhs.					
			Con	nbined Action by	у КЅРСВ				
No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of December 2020	Progress in the month of January 2021	Progress in the month of February 2021	% works completed	Details of works remaining	
1	Sanitation Providing of toilets to residences With treatment and	Local body							

	disposal system for				
	sewage and sullage				
2	Community Toilet	All local bodies, SuchitwaMissio n,			
	Proposed construction of newcommunity Toilet at satellite points on the bank of river	Revenue department			
3	Rain water recharge Entry of rain water and rain water recharging to all thodu and drain	All local bodies, Kerala Water Authority,			
4	Solid waste management Check they have Board's consent and sanitation facilityis provided.	PollutionControlBoa rd, Health authority			
5	Household waste Adequate number of Kitchen bins shall beprovided	Municipalities and local bodies			
6	Market				
	Providing proper			 	

	waste handling		Six months			
	facility for					
	wastewater					
	And solid wastes					
			30			
7	Rendering	Local body	Six months			
	plant Rendering					
	plant					
	forpoultry					
	wastes					
8	Slaughter					
	house	Local body				
	Slaughter house waste					
	disposal					
	facility					
9	Establishment like	PollutionControlBoa	Six months			
	service station	rd	SIX IIIUIILIIS			
	and workshops					
	Strict					
	monitoringof					
	disposal of waste(sewage,					
	sullage,degradabl					
	e waste, non-					
	biodegradablewa					
	ste) surveyed area and alsoin					
	the catchment of					
	theriver					
	i)VerifyWhether					
	consent tooperate					
10	of the Board exists		Civ months			
10	Sanitation survey should be done	PollutionControlBoa	Six months			
		rd				

	Sanitation survey is to be conductedfor 100m on eithersidesof the other parts of polluted stretch if anylocatednearby					
11	Awareness Awareness for residence association	Suchitwa Mission/ LSGD/Corporati on	Once in a month			

ACTION BY GROUND WATER DEPARTMENT

SI. No.	Ref para item nos as per NGT Order no.673/2 018 dated 20.09.201 8	Activity	Progress in the month of December 2020	Progress in the month of January 2021	Progress in the month of February 2021	% works compl eted	Details of works remaining
1	B(i)	Ground Water resources and regulation of ground water extraction by industries particularly in over exploited as critical zones/blocks (Earlier Status : As per Groundwater resources of Kerala, 2017 estimate a total number of 2 blocks (Neeleswaram and Payyannur) comes under the Peruvamba river basin. All the blocks in the river stretch are safe with stage of					

		groundwater extraction ranges from 34.85% to 69.52%)			
2	B(ii)	Ground water recharging / rain water harvesting (Earlier Status :The average pre -monsoon groundwater level ranges from7.97mbgl - 8.81 mbgl. Department has implemented 5 no of bore well recharge structures and 3 dug well recharge at Cheemeni open prison in Neeleswaram block)			
3	B(iii)	Periodic ground waste quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps (Earlier Status :Groundwater Department has 1 observation dug well and 1 piezometer for routine studies in the river stretch.)			
4	B(iv)	For regulating use of ground water for irrigation purpose, adopting good irrigation practices (Earlier status :The total irrigation draft in the area ranges from 695.64 - 1326.85 ha.m.)			

Other than these following are some more suggestions from the part of pollution controlBoard.

- 1. Proper awareness among the inhabitants in the area is to be given for protecting the water bodies. Basic training for the people at the grass root level is to be provided for river management. All efforts for maintaining the quality of water bodies may be done by the Panchayat/Municipal authoritiesonly with people'sparticipation.
- 2. The nearby gramapanchayath and municipalities are mainly responsible for not providing municipal waste collection and treatment facilities in the locality. So they must be instructed to provide the required facility for scientific disposal of municipal solid waste as per the MSW rules 2016. The citizens as well as the municipal/gramapanchayath authorities need to be aware of the importance of scientific

disposal of waste generated. Their attitude towards handling waste has to be changed. Reducing waste, recovering recyclable materials, return of nutrients to the eco system as well as generation of energy from waste are to be practised. There has to be a valid scheme for collection, segregation, transportation, processing and safe disposal of waste by the authorities. For this affordable and viable waste to energy conversion technologies apart from conventional composting is to be implemented by the municipalities seeking technicalexpertise.

- 3. Propagation of vegetative cover in water shed will reduce soil erosion and enhance percolation of rain water into the sub surface. In downstream stretches where the river is saline, propagation of mangroves are essential.
- 4. Strict monitoring from the part of implementing as well as monitoring agencies is required for effective functioning of waste treatment facilities in waste generatingunits.
- 5. The practice of waste dumping into the river is to be prevented legally and strict action against this practice is to be adopted at panchayath and municipalitylevel.
- 6. Re-survey of the river boundaries throughout the entire stretch is to be done urgently so as to prevent encroachment of the river.
- 7. The municipalities as well as the panchayaths are to be directed to provide proper waste management facilities of their own. All towns and cities must have Sewage Treatment Plants (STPs) that clean up the sewage. Facility for collection, segregation, transport, processing and scientific disposal of waste generated are to be provided by the local authorities in strict adherence to the Municipal Solid Waste Management Rules, 2016. For this, affordable and viable waste to energy conservation technologies apart from conventional composting is to be implemented seeking technical expertise.
- 8. Strict monitoring from the part of implementing as well as monitoring agencies is required for effective functioning of waste treatment facilities in waste generating units. The riverine stretches are to be monitored periodically at identified locations for water qualityassessment.
- 9. Modern agricultural practices and technologies introduce the use of inorganic fertilizers with Nitrogen, Phosphorous, Potash and inorganic pesticides in farm lands and play importantroleintheriverpollution. These may concentrate into the waterbody through run

off causing algal blooms by which whole stretch of water become choked. Fertilizers and chemicals application in agricultural lands are to be strictly under technical expertise.

- 10. Rain water recharging measures must beadopted.
- 11. Eco tourism and water tourism projects are to be designed giving due importance for protecting the environment. The activities are to

be organized in such ways which do not induce any types of pollution to the water body. Strict monitoring from the concerned authorities are recommended in functioning of the tourismprojects.

- 12. Implement Green Protocol effectively in local self governments. Prohibit littering of plastics in the area. Plastic wastes shall be handled as per the provisions of Plastic Waste (Management and Handling) Rules, 2018.
- 13. The existing waste water treatment facilities of Taliparamba Municipality shall be augmented in such a way so as to operate round theyear.
- 14. Actions shall be taken by the local bodies to clean the storm water drains. Rejuvenation of small streams, creeks leading into the river is to bedone.
- 15. Round the clock patrolling shall be provided so as to prevent waste dumping on public places.
- 16. CCTV can be installed at suitable points in order to identify the persons/ establishments dumping waste in to river. All the local bodies must establish slaughter houses with modern facilities and unauthorized slaughter houses shall be strictlyenforced.
- 17. Strict action shall be taken against non-violating person/ agency by the authorities when noticed. Plantation of trees and plants on the bank will be highly effective in controlling the wastedisposal.

National Mission for Clean Ganga

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

RIVER RAMAPURAM, KANNUR

S. No.	Activity to be monitored	Timeline	Submission of progress by State/UT-
			Compliance status
1	Ensure 100% treatment of sewage at least in-situ		MADAYI
	remediation		16 soak pit,6 numbers of compost pits were
			completed.Supply order given for 10 MCF, out
			of this 5 numbers were supplied
	Commencement of setting up of STPs and connecting all	31.03.20	NIL
	the drains and other sources of generation of sewage to	22	
	the STPs must be ensured		
2	Timeline for completing all steps of action plans including	31.03.20	NIL
	completion of setting up STPs and their Commissioning	22	
5	Chief Secretaries may set up appropriate monitoring		
	mechanism at state level		
	 Specifying accountability of nodal authorities not 		
	below the Secretary level		
	• Chief Secretaries may have an accountable person		
	attached in their office for this purpose		
	 Monitoring at State level must take place 		
6	Progress report may be furnished by the State/UTs to		
	 Secretary, Ministry of Jal Shakti 		
	Member Secretary,CPCB		

6.1	 Progress Report may be comprised of details along with completion timelines on: (I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment. (II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along 	Before June Every Year	16 soak pit completed
	with completion timeline (III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure,Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		
	 (iv)<u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline 		MADAYI 100 ring compost Unit supplied, placed order for 96 units of Ring Compost (for bio degradable waste disposal) Non bio degradable waste is collecting through Haritha Karma sena and handed over to RRF
	(v)Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	Every month	
	(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including	Montly	ongoing

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

ACTION PLAN FOR RIVER RAMAPURAM, KERALA

Ref para no:48 as per NGT order 673/2018 dated:2 0.0 9.2018		Implementing Agency	Time of Completion	Progress in the month of December 2020 100%	Progress in the month of August 2021 Not reported	Progress in the month of october 2022 Not reported	% works completed	Details of works remaining
A (b)	Sanitation Facility	Pariyaram GP	03/2020					
C (ii)	Biodegradablewas tedisposal	Pariyaram GP	03/2022					
C (ii)	Non bio degradable Waste Disposal	Pariyaram GP	Ongoing project			Waste dispose d through clean Kerala Compan Y		
E	Awareness	Youth, Asha workers and other stake holders	Whenever necessary		ongoing	Ongoing		
A (b)	Identification of illegal outlets in to drains and stoppage of the same	Madayi GP	09/2019	completed	completed	complet ed		
A (b)	Sanitation Facility	Madayi GP	2022		100 Ring compost unit supplied	Order placed for		

		Ward Constation		100 F		another 96 units Order	
C (ii)	Biodegradablewas tedisposal	Ward Sanitation Committee ofLocalBody	2022	comp suppl	blied	placed for another 96 units	
E	Awareness	Youth, Asha workers and other stake holders	On going	Comp	pleter		

Action plan of Local body

- *1.* <u>Public Toilet</u>: Construct public toilets using available funds on the bank of river near Tourist places, Fishing spotsetc.
- 2. <u>Mini MCF</u>: Construct material collection facility in miniature form at suitable intervals on the bank of the river in order to prevent dumping of wastes in towater.
- 3 **<u>Toilet at houses:</u>**Construct toilets with scientific septic tank and Soakpit
- 4. <u>Retro Fitting</u>: Maintenance work of existing toilets of residences near the bank of river using performance incentivegrant.
- 5. <u>Bio degradable waste Disposal</u>: Distribution of Bio gas Plant, Composting facility to residences near river for bio degradable wastedisposal.
- 6 <u>Common Waste disposal facility:</u>For the disposal of bio degradable waste disposal at market places, provide community level bio gas plants, Thumboormozhi etc. Using suitablefunds
- 7. <u>Common Sewage treatment facility:</u>Provide common sewage treatment facility for waste water generating from market places and disposing in to publicdrains.
- 8 Septage treatment facility : Construct septage treatmentfacility

In addition to above, CCTV can be installed at suitable points in order to identify the persons/ establishments dumping waste in

to river. All the local bodies must establish slaughter houses with modern facilities and unauthorized slaughter houses shall be strictly enforced.

Strict action shall be taken against non-violating person/ agency by the authorities when noticed. Plantation of trees and plants on the bank will be highly effective in controlling the wastedisposal.

Action Plan by Irrigation Department

Ref para	Activity	Implementing	Time for	Progress in the	Progress in	Progress in	% works	Details of		
no:48		Agency	completion	month of May 2022	the month	the month	complete	works		
as per					June 2022	october	d	remaining		
NGT						2022		_		
order										
673/18										
dated:										
20.9.18										
	Providing fencing on	Irrigation	2021	Initially the DPR sul						
	Ramapurambridge	department		But as per the lette				ch: f		
	across Ramapuramriver			Thiruvanamthapura						
C (ii)	at Madayi GP			Secretary to Gover was recasted with i						
• ()										
				the estimate prepared and DPR submitted for an amount of 14.5lakh as per DSR 2016.Now the new estimate prepared as per DSR 2018						
				and DPR submitted for FS for an amount of Rs.18.60 lakh.						
	Desilting and repair of	Irrigation	2020							
	salt water exclusion cross	Department	2020		estimate for desiltation work on the u/s of Vayalapra SWECB has ady been submitted. Now the desiltation work has been completed					
	bar at Ramapuram in	Department		•				-		
	cheruthazham GP			due to flood (Room		e scheme removal of excess sedimentation				
E				It was observed rec		aking the hed	l levels of I	Ramanuram		
				river for desilting w						
				and Vayalapra RCH						
				will be overlapping			•			
				Hence the work is r						
E	Rejuvanation of	Irrigation	1	As per the observation				**		
	Ramapuram River -	Department		vide No.757555/C1/2		-				
	Flood plain zone			considered until ade	•					
	management: Protection			purpose, LSGD has	• •		-			
	of flood plain zone near			the same reach where irrigation department proposed a flood bank in						
	Ramapuram bridge in			Ramapuram action	plan. Hence	this may be r	emoved fro	om the action		
	Cheruthazham			plan.		-				
	Panchayath. (PRICE ID :									
	2019/10481/IA)									

E	Greenery development- Plantation plan. Plantation on both sides of the river, setting up biodiversity parks on flood plains by removing encroachment	Irrigation Department	2 years	To ascertain the encroachment if any and Purambokk along the polluted river stretch for the proposed work, land to be demarcated by the Revenue authorities after necessary boundary survey. For the same, District collector Kannur has already been addressed from this office and subsequent bio cover works and planting trees have to be done by social forestry department.
E	Issues relating to E-flow, maintaining minimum environmental flow of river(by having watershed management provisions)	Irrigation Department	2 years	DPR was submited for the work previously and it was directed to find the desilting quantity based on level calculations. Hence the estimate have been submitted for FS after incorporating required corrections. DPR submitted for F.S (Rs.45.50 lakh)

Combined ActionPlan

		Agency	Timeline	Progress in	Progress in		% works	Details of
	Proposed action			the month	the month	Progress in	completed	works
				of	of	the month		remainin
				December	January	of October		g
				2020	2021	2022		
A (b)	Providetoilets to residences with treatment and disposal system for sewage and sullage	Local Body	As there are residences with single pit toilet					
A (b)	Construction of new community toilets with treatment system	All local bodies SuchitwaMission, Revenue department	Proposed Construction Of new community Toilet at satellite points on the bank ofriver					
B (ii)	Entry of rain water and rain water recharging to all channels and drain	All local bodies , Kerala Water Authority,	Drains are inspected before rain and all channels and stream are cleaned once in a year					
C (ii)	Sanitary waste in hostels, establishments should be segregated, treated and disposed as per Solid Wastes Management Rules,2016 intheir respective wards.Aerocompostimg and Material Collection Facility should be given in all wards near the river bank.	Pollution Control Board ,Health departmen t	Check they have board consent and sanitation facility is provided					
C (ii)	Adequate number of kitchen bins shall beprovided	Municipalities and local bodies	Six months					

C (ii)	Providing proper waste handling facility. For wastewater and solid wastes		Six months		
C (ii)	Rendering plant for poultry wastes	Local body	Six months		
C (ii)	Slaughter house waste disposal facility	Local body			
A (iv)	Strict monitoring of disposal of waste(sewage, sullage, degradable waste, non- biodegradable waste) surveyed area and also in the catchment of theriveri)Verify Whether consent to operate of the Board exists	Pollution Control Board	Six months		
A (b)	Sanitation survey is to be conducted for 100m on either sides of the other parts of polluted stretch if any located nearby		Six months		
E	Awareness for residence association:	Suchitwamission/L SGD/Corporation	Once in a month		

Action Plan by Ground WaterDepartment

SI.No	Ref para no:48 as	Activity	Progress in the	-		% works	Details of works
	per NGT		month of	month of	Drogross in the	completed	remaining
	order 673/2018		December 2020	January 2021	Progress in the month of		
	dated:20.						
	09.2018				October 2022		
1	B(i)	Ground Water resources and					
		regulation of ground water					
		extraction by industries					
		particularly in over expolited as					
		critical zones/blocks					
2	B(ii)	Ground water recharging / rain					
		water harvesting					
3	B(iii)	Periodic ground waste quality					
		assessment and remedial					
		actions in case of con					
		taminated ground water tube					
		wells/bore wells or hand					
		pumps					
4	B(iv)	For regulating use of ground					
		water for irrigation purpose,					
		adopting good irrigation					
		practices					

Station Name		1 1	THE PART OF THE PART OF THE		
Turn of Winser 1		24	AAVVAYERIVER		
About Avaller body			RIVER		
4. ompleted by			JSA2.		
Agency Date and fine of	KER	ALA STATE P	KERALA STATE POLLUTION CONTROL BOARD	VI KOL BOARI	
Sample taken		07-10-2022	07-10-2022	07-10-2022	12-10-2022
SLN Detu	Determinants	Kankut)X urikuzlettioolu	Thaturakadayo Botono	- 1
	2	. 30	30	12	DANKI LOVINIA
2 Dissolved Oxygen, mg/	tên, nig/l	6.2	6.4	2 27	2.3
		5,71	61.9	6.2	27.5
9 Conductivity, mmhos/em	umbos/em	63.3	61.4	758	26.0
6 T		2	1.8	2.5	-
TTotal Aller V. A		0.8	0.9	1.2	0.5
X Chloride Minut	/ mg/	12 .	11	18	11
		18	10	20	3
V Allamontacal-N	1/Bitt	0.03	BDT.	0.06	0.07
The Maruness and Cal	CO3, mg/l	10	æ	19	15
14 VALUE as CaCO3, mg/1	.03, mg/l	*	ţ	11	13
12 Pulling Design 25 (.aC03, mg/l	2	1	20	2
1.3 December, mg/		0.0%2	BD1.	BDI,	2.325
14 russhate, ing/		BDT.	BDI.	BDL	0.051
12 FIBOTIde, mg/		TGB	BDL	RDL	RUI
17 Found Coldorm, MPN/100 ml	MPN/100 ml	120	120	180	144
"ULOTHU'S IPPAU	Int OUT/NATED	80	80	Ua	~

Assistant Scientist Kereia State Polition Control Board Olstict Office, Kannur-670002

ducher k. k.

Stution Name			PERUMBA KIVER	2	
Type of Water body			RIVER		
Completed hy			JSA2		
Agency	KE	KERALA STATE POLLUTION CONTROL BOARD KANNUR	TUTION CONTR.	OL BOARD KANN	CUR
Date of sample taken		07-10-2022	07-10-2022	12-10-2022	11-10-2(122
SI.N Detern	Determinants	KACHERIKADVU	MATAHAMAGAL AM	CHANDAPURA	KANDANALI
I Temperature, 0C	DC DC	30	. 30	28	31
2 Dissolved Oxygen, ng/l	ten, nig/l	9	6.1	7.47	5.4
3 pH		5.7	5.66	5.58	18.9
4 Conductivity, jumbos/eni	imhos/eni	56.2	53.7	64.8	10040
5 BOD, mg/l		1	0.68	1.58	2.2
6 Turbidity, NTU	-	0.6	0.8	0.4	0.8
7 Total Alkalinity,	v, mg/l	8	2	10	46
8 Chloride, ng/l		12	8	01	180
9 Ammoniacal-N,	, mg/l	0.92	0.005	0.0357	0.1841
10 Hardness as CaCO3, mg/l	ACO3, mg/l	10	13	9	76
11 Calcium as CaCO3, mg/l	1:03, mg/l	2	3	4	60
12 Magnesium as (CaCO3, mg/l	8	10	2	37
13 Sulphate, mg/l		0.6321	BDL	BDL	30.26
14 Phosphate, mg/l	-	BDL	BDL	0.0013	201.5
15 Fluoride, mg/l		BDL	BDL	0.3	BDL
16 Total Coliform,	MPN/100 ml	400	600	40	800
17 Fecal Coliform, MPN/100 ml	MPN/100 ml	210	320	10	SOO

Anershark-K

Station Name	1016		RAMAPUKAM RIVER		
Type of Water body	ater body		RIVHR		
Completed by	1 by		JSA2		
Agency		CERALA STATE PO	KERALA STATE POLITITION CONTROL BOARD KANNUR	BOARD KANNUR	
Easter of sample	'sumple	07-10-2022	16-10-2022	12-10-2022	17-10-2022
St.No	Determinants	KAPUGAL	ATHIYADAM	IGMAPURAN	VAYALAPRA
	I Temperature, 0C	29	30	28	0%
24	2 Dissolved Oxygen, 11g/l	5.8	5.2	7.47	9
φ,	3 pH	- 5.4S	5.38	5.88	7.48
7	4 Conductivity, µmhos/cm	63.4	142.2	611	26700
1.1	5 BOD, mg/l	1.1	1.1	1.54	6
9	6 Turbidity, NTU	0.8	1	0.1	1.2
	7 Total Alkalinity, mg/l	7	12	=	51
80	8 Chloride, mg/l	14	17	155	720
ç	9 Ammoniacal-N, mg/l	BDL	13DR.	110070	0.1721
10	10 Hardness as CaCO3, mg/f	12	8	80	200
11	[1] Calcium as CaCO3, mg/l	6	12	29	128
12	12 Magnesium as CaCO3, ng/l	9	×	5	72
13	13 Sulphate, mg/l	BDL	BDI.	27.78	383.9
4	14 Phosphate, mg/l	BDL	BDI.	BDL	801/
15	15 Fluoride, mg/l	BDL	BDI.	BDL	801.
16	16 Total Coliform, MPN/100 rat	180	120	006	800
17	17 Fecal Coliform, MPN/100 mJ	100	80	600	420

Chudelle Anceshark K

Assistant Scien is. Kenala State Polython Comb J Eoard District Office, Kannur-67 0002

Station Name			RUPP	KUPPAM RIVER			
ype of Water body				RIVER			2
Completed by				JSA2			
Agency		KERALA ST	VI'E POLLUTIC	ON CONTROL	KERALA STATE POLLUTION CONTROL BOARD KANNUR	NUR	
Date of sample raked		16-10-2022	16-10-2022	12-10-2022	16-10-2022	16-10-2022	16-10-2022
st.No	Determinants	VELLICHAN	MANGALAS SERRY	KUPPAM. BRIDGE	VARIANKOT TAM	VELLAVG	NTTTVIN ADAM
I Temperature, 0C	tture, 0C	29	30	28	30	30	29
2 Dissolved	2 Dissolved Oxygen, mg/l	6.82	6.6	7.8	6.4	5.2	6.64
3 pH		6.56	6.49	5.71	6.6	6.8	6.54
4 Conduct	4 Conductivity, μmhos/em	1148	145.5	288	156.2	140	140
5 BOD, mg/l	10	1.9	1	1.13	1.8	1.62	-
6 Turbidity, NTU	v, N'I'I)	1	1.1	0.6	0.8	0.8	0.3
7 Total All	7 Total Alkalinity, mg/l	30	20	15	15	12	13
8 Chloride, mg/l	, mg/l	56	42	25	36	34	21
9 Ammoni	9 Ammoniacal-N, mg/l	0.66	0.93	0	BDL	BDL	BDL
10 Hardness	10 Hardness as CaCO3, mg/l	60	14	24	15	15	13
11 Calcium	11 Calcium as CoCO3, mg/l	19	3	14	2	9	4
12 Magnesit	12 Magnesium as CaCO3, mg/l	41	Ш	10	13	6	6
13 Sulphate, mg/l	Ing/l	BDL	BDL	1.13	BDL	BDL	BDL
14 Phosphate, mg/l	e, mg/l	BDL	BDL	0.0126	BDL	BDL	BDL
15 Fluoride, mg/l	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
16 Total Col	Total Coliform, MPN/100 m]	400	100	300	200	200	800
17 Feeal Col	Feed Coliform, MPN/100 ml	280	80	150	120	120	600

1.Kavvayi

SL.no	Druin	BOD on October 2022	Remarks
1	Kotti thodu	3.26	Wasterdisposal from side by shops
2	School ground thodu	Nn water	
3	Kalikadapuram thodu	No water	
1	Koorikadavu	No water	Drain covered with mud ,plastic wastes
5	Ulliyathu kadavu	3.47	Plastic waste seen ,black colour water with h2s smell.
6	Kaliatu kadavu	Small amount of water which cannot be fetched	
7	Muttathu kadavu	3	Plastic waste seen.
8	Vadipram thodu	Small amount of water which cannot be fetched	Construction work going on

2.Peruvamba

	Drain	BOD on October 2022	Remarks
1	Naranga thodu	3	Plastic waste was noticed ,water with smell
2	Perumba thodu	2.6	Plastic waste was noticed ,water with smell, near by shopping complex shops are domping waste.
3	Valliohmthodu	3.4	Water with Plastic waste.
4	Panapuzha thodu	0.68	
5	Poomkottu Chal	0.32	Plastic waste seen side wise road.

6	Manjangottu Thode	0.72	
7	Kannelumthodu	1.1	
8	Appithodu	1.1	
9	Mavullapoyil thodu	1.61	Plastic waste.
10	Kollali thodu	0.62	Small amount of water
11	Kannada thodu	1.8	3
12	Koyakkoto thodu Thokadu		
13	Cherotmyayal thodu	No water	
И	Kayyil arakufarii Ihodu Kunjimagalarii puzha	2.8	
15	Tattanvayal Ihodu	0.68	

3. Ramapuram thodu

ï

SLno	Drain	BOD on October 2022	Remark
1	Kapugal thodu	1.1	
2	Chembail kundu	2,9	Plastic waste and floating bottles are noticed.
3	Kulaprami kundan thodu 🥜 Kavilavalapu thodu	3.6	
4	Aduthila Lhodu	No water	
5	Ottayi thodu	3	
6	Moolakadavu	3.2	
			40

4.Kuppam

SI.no	Drain	BOD on October 2022	Remarks
1	Karuvanchał	1.1	
2	Karthikapuram	0.98	Plastic waste was noticed
3	Near Udayagirl Bridge	0.92	
4	Mukkada Thodu	0.62	
5	Moonamkunnu Thodu	0.72	e
6	Kuttaparamba- Neduvodu Thodu	1.02	
7	D/S of Alakode Hospital	No water	
8	Pathayachira	3	Turbid water present with high Plastac waste.
9	Near the houses on bank of main River (@ Parlyaram GP)	2,8	
10	Near House Boat @ Pariyaram GP	2.2	
11	Kavinmunabu	2	
12	Manja Thodu	3.2	
13	Sulthan Thodu	1	
14	Cheru thodu	3.8	

National Mission for Clean Ganga

Format for Submission of Monthly Progress Report by States/UTs

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

RIVER MOGRAL, KASARGOD

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

6.1	Progress Report may be comprised of details along with	
0.1		
	completion timelines on:	
	(I) Identification of polluting sources including drains	
	contributing to river pollution and action as per NGT	
	order on in-situ treatment.	
	(II) Status of STPs, I&D and sewerage networks Details of	
	Existing Infrastructure, Gap Analysis, Proposed along	
	with completion timeline	
	(III) <u>Status of CETPs</u>	
	Details of Existing CETP and ETP Infrastructure, Gap	
	Analysis, Proposed along with completion timeline,	
	No. of industries and complying status	
	(iv)Status of Solid Waste Management & Details of	
	Processing Facilities	
	Details of Existing Infrastructure, Gap Analysis, Proposed	
	along with completion timeline	
	(v) Latest water quality of polluted river, its tributaries,	
	drains with flow details and ground water quality in	
	the catchment of polluted river;	
	vi)Preventing dumping of waste and scientific waste	
	management including bio-medical waste, plastic	
	management including bio-medical waste, plastic	

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

ACTION PLAN FOR RIVER MOGRAL, KASARAGOD DISTRICT, KERALA MONTHLY PROGRESS REPORT FOR THE MONTH OF OCTOBER 2022 RIVER MOGRAL, KASARGOD

No. (as per Action Plan)	Activity	Implementing agency	Time line	Progress in the month of August 2022	Progress in the month of September 2022	Progress in the month of October 2022	% works completed	Details of works remaining
С	Material collection facility	Mogral Puthur Grama Panchayath	March 2020	Completed	Completed	Completed	100 %	NA
	Waste collection including vehicle hire charge to collect waste.	Mogral Puthur Grama Panchayath	March 2020	NIL	NIL	NIL	0 %	
E	Installation of camera	Mogral Puthur Grama Panchayath	June 2020	NA	NA	NA	0%	
(b)	Drainage Cleaning at Ballor, Kottakkunnu, Majal, Neerchal, Blarkode, Goovathadka, Pernadka, Shankra, Eriyal,KK Puram Arjal Vishnu Temple	Mogral Puthur Grama Panchayath	2019	Completed	Completed	Completed	100 %	NA

C(ii)	Haritha Karmasena Activity/ Collecting Non Bio degradable materials including Plastics from households	Mogral Puthur Grama Panchayath	On-going	Started	Started	Started	75%	
C(iii)	Bamboo Capital Bamboo Planting- aiming water conservation and raising water levels thus preventing solid erosion waste dumping in public places	Grama Panchayath	On-going	Completed	Completed	Completed	100 %	NA
E	River cleaning	Mogral Puthur Grama Panchayath	2019	Completed	Completed	Completed	100 %	NA
C(iii)	Bamboo Plantation of Madhur	Madhur grama Panchayath	2019	18500 being maintained by NREGA	18500 being maintained by NREGA	18500 being maintained by NREGA	100 %	NIL
C(ii)	Viability Gap Funding for Haritha Karmasena	Madhur grama Panchayath	2019	Total Amount Rs 250000/- Expenditure RS 75000/-	Total Amount Rs 250000/- Expenditure RS 75000/-	Total Amount Rs 250000/- Expenditure RS 249965/-	72.9%	NIL
C(ii)	Material recovery facility centre	Madhur grama Panchayath	2019	Completed	Completed	Completed	100%	Completed

C(ii)	Construction of Plastic Shredding Machine building	Madhur grama Panchayath	2019	Completed	Completed	Completed	100 %	Completed
C(ii)	Purchase of Plastic shredding machine	Madhur grama Panchayath	2019				-	Yet to float tender
C	Tying of net on both sides of the bridge	Irrigation Department	2019-2020	to Chief Engineer (Price ID: 2019/10715/IA) for approval. Present status reported to Superintending Engineer, Minor	DPR submitted to Chief Engineer (Price ID: 2019/10715/IA) for approval. Present status reported to Superintending Engineer, Minor Irrigation Circle, Kozhikode on 20.07.2021	DPR submitted to Chief Engineer (Price ID: 2019/10715/IA) for approval. Present status reported to Superintending Engineer, Minor Irrigation Circle, Kozhikode on 20.07.2021	DPR submitted to Chief Engineer (Price ID:2019/107 15/IA) for approval.	under process.
A(a)	Water quality monitoring	КЅРСВ		1	Being done		1	1

Sd/-

Environmental Engineer

National Mission for Clean Ganga

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

RIVER UPPALA, KASARGOD

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

6.1	Progress Report may be comprised of details along with completion timelines on:(I) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.	
	(II) <u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline	
	 (III) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure,Gap Analysis, Proposed along with completion timeline, No. of industries and complying status 	
	 (iv)<u>Status of Solid Waste Management & Details of</u> <u>Processing Facilities</u> Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline 	
	 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; 	
	(vi)Preventing dumping of waste and scientific waste management including bio-medical waste, plastic waste and decentralizing waste processing, including waste generated from hotels, Ashrams, etc.	

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

ACTION PLAN FOR RIVER UPPALA, KASARAGOD DISTRICT, KERALA MONTHLY PROGRESS REPORT FOR THE MONTH OF OCTOBER 2022

RIVER UPPALA, KASARGOD

No.	Activity	Implementing	Time line	Progress in the	Progress in the	Progress in the	% works	Details of works
(as per		agency		month of	month of	month of	completed	remaining
Action Plan)				August 2022	September	October2022		
					2022			
• • •		Mangalpady Grama	2019	Not	NIL	Not submitted	50%	After monsoon work
	facility. Operation	Panchayath		submitted		the report		will complete
				the report				
С	Waste	Mangalpady Grama	2019- 2020	Not submitted	Proposed a project	Not submitted the	-	New projects will
		Panchayath/ Green		the report	to buy a hydraulic	report		plan for the
	including	Space Private company			facility vehicle			protection of river
	purchase of vehicle to collect							Uppala.
	waste.							
		Mangalpady Grama	March 2020	Not submitted	Project got	Not submitted the		Project will
	camera	Panchayath		the report	approval	report		implement within 3 months
С		Manjeshwaram Grama	2019-2020	Electrified	Electrified	Electrified	100%	Completed
	material	Panchayat						
	collection facility							
С	Transportation of	Manjeshwaram Grama	March 2020	650 kg	2250kg plastic	3590 kg plastic		Work yet to be
	collected waste	Panchayat		Plastic	waste transported	waste transported		completed.
				waste				
				transported				

Е	Installation of	Manjeshwaram Grama	March 2020	New Project	New Project	New Project	Tendered
	camera	Panchayat		formulated to	formulated to	formulated to Install	
				Install 25 CC	Install 25 CC	25 CC Cameras,	
				Cameras	Cameras	project forwarded	
						to PWD Electrical	
						Wing, permission	
						not yet received	
С	Tying of net on	Irrigation Department	2019-2020	DPR submitted to	DPR submitted to	DPR submitted to Chief	Work still under
	both sides of the			Chief Engineer (Price	Chief Engineer (Price	Engineer (Price ID:	process.
	bridge			ID: 2019/10825/IA) for	ID: 2019/10825/IA) for	2019/10825/IA) for	
				approval.	approval.	approval.	
				Present status	Present status		
				reported to	reported to		
				Superintending	Superintending		
				Engineer, Minor	Engineer, Minor		
				Irrigation Circle,	Irrigation Circle,		
				Kozhikode on	Kozhikode on		
				20.07.2021	20.07.2021		
Е	Continuous vigil on	Police Department	100%				
	waste dumping on roads		Completed				
A(a)	Water quality	KSPCB	Being done re	gularly			
	monitoring						

Sd/-

Environmental Engineer

	MOGRAL RIVER - MOG	sting NWMP Station)	
	Sampling Point	Mogral Bridge	
	NWMP Station Co	2304	
	Latitude		12°33'36.5"N
	Longitude		74°57′21.0″E
	Date of Sampling	5	17.10.2022
	Nature and flow of the	e river	Medium flow, water level increased
SI.No	Parameters	Unit	Mogral Bridge
1	Temperature	°C	27
2	рН	-	7.28
3	Conductivity	µmhos/cm	459.7
4	Turbidity	NTU	0.2
5	BOD	mg/l	1.5
6	Dissolved Oxygen	mg/l	7.9
7	Total Coliforms	cfu/100ml	390
8	Feacal Coliforms	cfu/100ml	128
9	Feacal Streptococcus	cfu/100ml	30
10	Chlorides	mg/l	150
11	Total Alkalinity	mg/l	28
12	Total Hardness	mg/l	38
13	Calcium Hardness	mg/l	24
14	Magnesium Hardness	mg/l	14
15	Calcium	mg/l	9.6
16	Magnesium	mg/l	3.4
17	Total Dissolved Solids	mg/l	308
18	Sodium	mg/l	88
19	Potassium	mg/l	17.2

MOGRAL RIVER - PUZHAKKARA (Proposed NWMP Station)							
	Sampling Point	Puzhakkara					
	Distance from existing NWN	1P Station	3.25 km				
	Latitude		12°33′58.1″N				
	Longitude		74°58′43.7″E				
	Date of Sampling		17.10.2022				
	Nature and flow of the	river	Water level increased, Medium flow				
SI.No	Parameters	Unit	Puzhakkara				
1	Temperature	°C	28				
2	рН	-	7.45				
3	Conductivity	µmhos/cm	53.74				
4	Turbidity	NTU	1.2				
5	BOD	mg/l	1.1				
6	Dissolved Oxygen	mg/l	7.4				
7	Total Coliforms	cfu/100ml	290				
8	Feacal Coliforms	cfu/100ml	48				
9	Feacal Streptococcus	cfu/100ml	ND				
10	Chlorides	mg/l	12				
11	Total Alkalinity	mg/l	12				
12	Total Hardness	mg/l	13				
13	Calcium Hardness	mg/l	11				
14	Magnesium Hardness	mg/l	2				
15	Calcium	mg/l	4.4				
16	Magnesium	mg/l	0.486				
17	Total Dissolved Solids	mg/l	33				
18	Sodium	mg/l	6.58				
19	Potassium	mg/l	0.57				



UPPALA RIVER - UPPALA BRIDGE (Existing NWMP Station)							
	Sampling Point	Uppala Bridge					
	NWMP Station Cod	le	2306				
	Latitude		12°41′41.7″N				
	Longitude		74°54'16.9"E				
	Date of Sampling		17.10.2022				
	Nature and flow of the	Moderate flow, water level increased					
SI.No	Parameters	Unit	Uppala Bridge				
1	Temperature	°C	28				
2	рН	-	7.5				
3	Conductivity	µmhos/cm	151.3				
4	Turbidity	NTU	0.4				
5	BOD	mg/l	1.0				
6	Dissolved Oxygen	mg/l	7.5				
7	Total Coliforms	cfu/100ml	560				
8	Feacal Coliforms	cfu/100ml	148				
9	Feacal Streptococcus	cfu/100ml	40				
10	Chlorides	mg/l	36				
11	Total Alkalinity	mg/l	30				
12	Total Hardness	mg/l	32				
13	Calcium Hardness	mg/l	20				
14	Magnesium Hardness	mg/l	12				
15	Calcium	mg/l	8				
16	Magnesium	mg/l	2.916				
17	Total Dissolved Solids	mg/l	92				
18	Sodium	mg/l	21				
19	Potassium	mg/l	4.125				

UPPALA RIVER - UPPALA RIVER NEAR BHAGAVATHI TEMPLE (Bhagavathi Gate) - (Proposed NWMP Station)			
Sampling Point			Uppala River Near Bhagavathi Temple (Bhagavathi Gate)
Distance from existing NWMP Station			878.66 m
Latitude			12°41′20.1″N
Longitude			74°54'34.0″E
Date of Sampling			17.10.2022
Nature and flow of the river			Water level increased, moderate flow
Sl.No	Parameters	Unit	Uppala River Near
51.140			Bhagavathi Temple
1	Temperature	°C	28
2	рН	-	6.78
3	Conductivity	µmhos/cm	79.13
4	Turbidity	NTU	1.6
5	BOD	mg/l	1.4
6	Dissolved Oxygen	mg/l	7.5
7	Total Coliforms	cfu/100ml	260
8	Feacal Coliforms	cfu/100ml	76
9	Feacal Streptococcus	cfu/100ml	14
10	Chlorides	mg/l	14
11	Total Alkalinity	mg/l	23
12	Total Hardness	mg/l	25
13	Calcium Hardness	mg/l	20
14	Magnesium Hardness	mg/l	5
15	Calcium	mg/l	8
16	Magnesium	mg/l	1.215
17	Total Dissolved Solids	mg/l	48
18	Sodium	mg/l	8.05
19	Potassium	mg/l	0.63