No.6836/NGT/SLMC/Sci/2020/182

GOVERNMENT OF PUDUCHERRY
DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT
PUDUCHERRY POLLUTION CONTROL COMMITTEE
3rd Floor, Housing Board Complex, Anna Nagar, Puducherry – 5.
Phone: (0413) 2201256 Fax: (0413) 2203494

Puducherry, dt. 02 JUN 2020

To
Shri. D. P. Mathuria
Executive Director (Tech)
National Mission for Clean Ganga
Ministry of Jal Shakti,
1st Floor, Major Dhyan Chand National Stadium,
India Gate, New Delhi – 110 002.

Sir,

Sub: DSTE/PPCC – Submission of Progressive Report on Restoration of Polluted River Stretches – Reg.

Ref: Your Letter No. L – 34/2014-15/Legal/2019 (Part) dt. 22.01.2020.

***

With reference to the above mentioned subject, Consolidate Progressive Report for the period March – May 2020 are enclosed for kind perusal.

O/o ED (T), NMCG
D. No. 716
Dt. 12/06/2020

Yours sincerely,

(SMITHA. R)
Member Secretary
Puducherry Pollution Control Committee

01/06/2020

Encl: as stated above

Copy to:

1. The Member Secretary,
   Central Pollution Control Board,
   Parivesh Bhawan, C.B.D. Cum-Office Complex,
   East Arjun Nagar, Delhi – 110 032.

2. Guard File.

CONSOLIDATE PROGRESSIVE REPORT FOR THE PERIOD MARCH – MAY, 2020

Sl.No.	Activity to be monitored	Timeline	Status
1	Ensure 100% treatment of sewage at least in-situ remediation. Rs. 5 lakhs per month per drain for default in in-situ remediation.	31.03.2020	The work of providing bar screen has been completed by PWD in all the identified locations in Chunnambar river (Sankaraparani river), Puducherry. Bar screen has been provided by PWD, Karaikal in one of the Channels. Providing of bar screen to the remaining drains along Arasalar River is in progress.
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured. Rs. 5 lakhs for STP for default in Commencement of setting up of STPs.	31.03.2020	PWD and LAD have been directed to provide STP before March, 2021
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning.	31.03.2021	
3	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	22.01.2020 22.01.2020	State Level Monitoring Committee (SLMC) has been constituted on 08.01.2020. Secretary (Environment), Government of Puducherry Second meeting of SLMC was convened on 28.02.2020. Further meeting cannot be conducted due to COVID-19 lockdown.

4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakthi • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Progressive report was submitted on 11.03.2020 for the month of February, 2020.
4.1	Source of Pollution including drains have been identified	31.03.2020	Source of Pollution including major drains have been identified. Details are provide in **Annexure – I.**
4.2	Status of STPs, I&D and sewerage networks Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	2025	100% coverage of sewerage network has been prodvide for Puducherry urban area. Sufficient capacity of STP to treat sewage generated in the urban area is available. Tenders for providing 3 MLD STPs at Villianur, (for Chunnambar) and at Karaikal (for Arasalar) have been floated on 23.01.2020. In this regard, Officials of PWD, Puducherry and the Regional Administrator appeared before the Secretary (Envt) on 13.03.2020 for personal hearing.
4.3	Status of CETPs Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		No CETP is exists in the U.T. of Puducherry Since no homogeneous industrial cluster is located in the U.T. of Puducherry, installing CETP is not technically and economically viable.
4.4	Status of Solid Waste Management & Details of Processing Facilities	6 months	i. Door to Door collection of solid waste is being carried out in Villianur and Ariyankuppam town where Sankaraparani river is passing through. ii. Processing will be initiated.

4.4 (a)	Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	6 Months 6 Months 6 Months 6 Months 9 Months 6 Months	i. ULBs in which segregation and transportation of waste is proposed to implement in 1 Municipality (Yanam) ii. Recycling of 27.7 Tons in One ULB viz. Yanam Municipality. iii. Composting of 176.35 Tons in One ULB. iv. Bio-methanation of 1 Ton in One ULB. v. RDF 90.45 Tons in Two ULB. vi. Landfilling is proposed in Three ULBs of Quantity 54.50.
4.5	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.		**Annexure II & III**
4.6	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.		**<u>Bio-medical Waste Management</u>** i) U.T of Puducherry is having one Common Bio-medical Waste Treatment Facility viz. M/s. Pondicherry Solid Waste Management (P) Ltd., at Thuthipet. All Health Care Facilities (HCFs) located in Puducherry & Karaikal are disposing through them. ii) The HCFs located in Yanam is disposing through M/s. EVB Technologies (P) Ltd., Rajamundry, which is in the neighbouring state. iii) In Mahe the HCFs are disposing them Bio-medical Waste through an incinerator available in General Hospital, Mahe. iv) Bar-coding is proposed to implement.

		1 month	**Plastic Waste Management** i. Single use Plastic has been banned in the U.T of Puducherry since 2nd August 2019, irrespective of thickness for manufacture, store and use of the same. ii. Plastic Registration is being issued to Plastic manufacturers, Recyclers, Brand Owners and Plastic granule manufacturers as per PWM Rules, 2016. iii. The Brand owners and Manufacturers of MCP are submitting the EPR for Collection & Disposal of Plastic Waste as per guidelines of CPCB. iv. The manufacturers are collecting the Plastic Waste and sending it for registered recyclers/co-processing in cement kiln.
4.7	Ground water regulation	Already in force	Pondicherry Ground Water Authority had closed 6 Nos. of tubewells in Puducherry region and 2 Nos. of tubewells in Karaikal Region during the past 5 years due to illegal extraction of ground water.
4.8	Adopting good irrigation practices	Already in force	**Annexure- IV**
4.9	Protection and management of Flood Plain Zones (FPZ)	1 year	**Annexure – V**
4.10	Rain water harvesting	Already in force	**Annexure – VI**
4.11	Maintaining minimum environmental flow of river	Already in force	Illegal sand mining affect e-flow in the rivers. Hence, DCR (South) has imposed Prohibitory order u/s 144

<table>
<tr><td></td><td></td><td></td><td>of CrPc on 1st April, 2019 prohibiting lorries, vans, two wheelers, bullock carts and any similar load carrying vehicles. Check dams were constructed to regulate the flow.</td></tr>
<tr><td>4.12</td><td>Plantation on both sides of the river</td><td>Already in force</td><td>Forest Department has planted 4000 mangroves plant on the bank of Chunnambar river bed.

No. of Trees planted on the Arasalar River Bank

<table><tr><th>Sl.No</th><th>Year</th><th>Nos</th></tr><tr><td>1</td><td>2017</td><td>2023</td></tr><tr><td>2</td><td>2018</td><td>7859</td></tr><tr><td>3</td><td>2019</td><td>7362</td></tr></table></td></tr>
<tr><td>4.13</td><td>Setting up biodiversity parks on flood plains by removing encroachment</td><td>6 months</td><td>Mangrove plantation of 25 acre has been identified for developing biodiversity park.

Proposal will be submitted by the Forest Department seeking fund for developing 25 acre of Mangrove plantation as Biodiversity Park in Karaikal.</td></tr>
</table>

ANNEXURE –

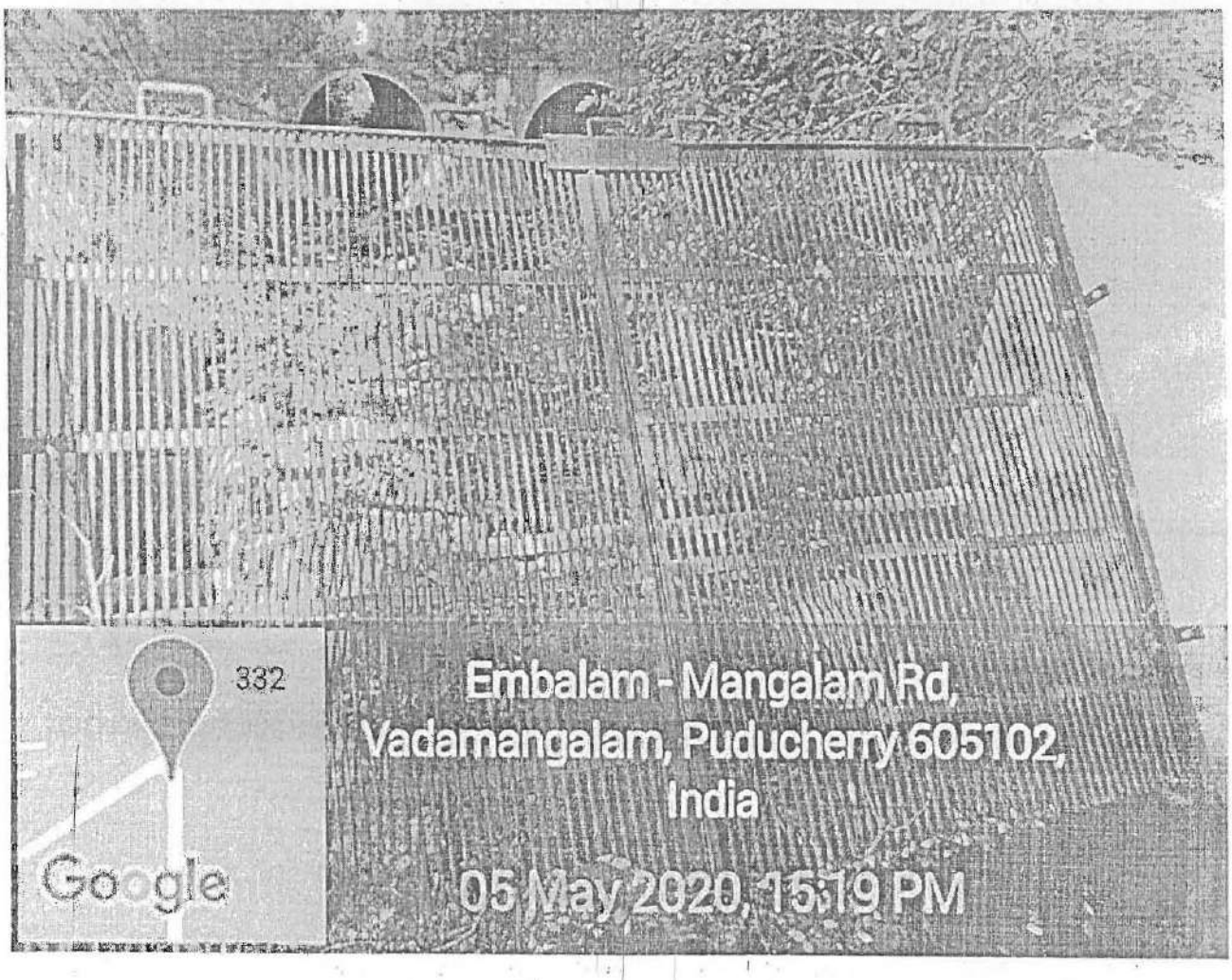
Drains joining the Chunnambar

LOCATION-I

NORTH OF VILLIANUR ROAD AT VADAMANGALAM

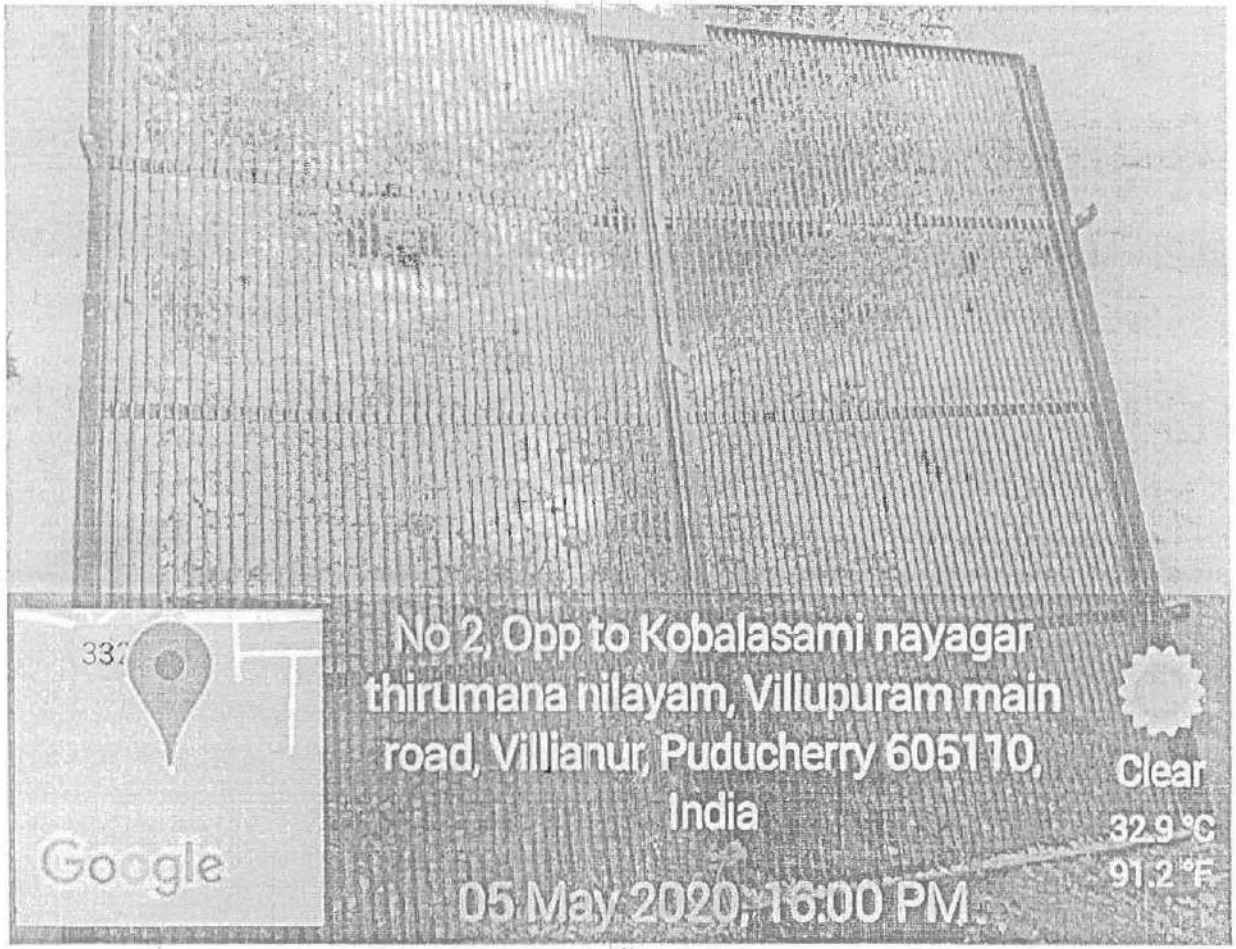
LOCATION-II

SOUTH OF VILLIANUR ROAD AT VADAMANGALAM



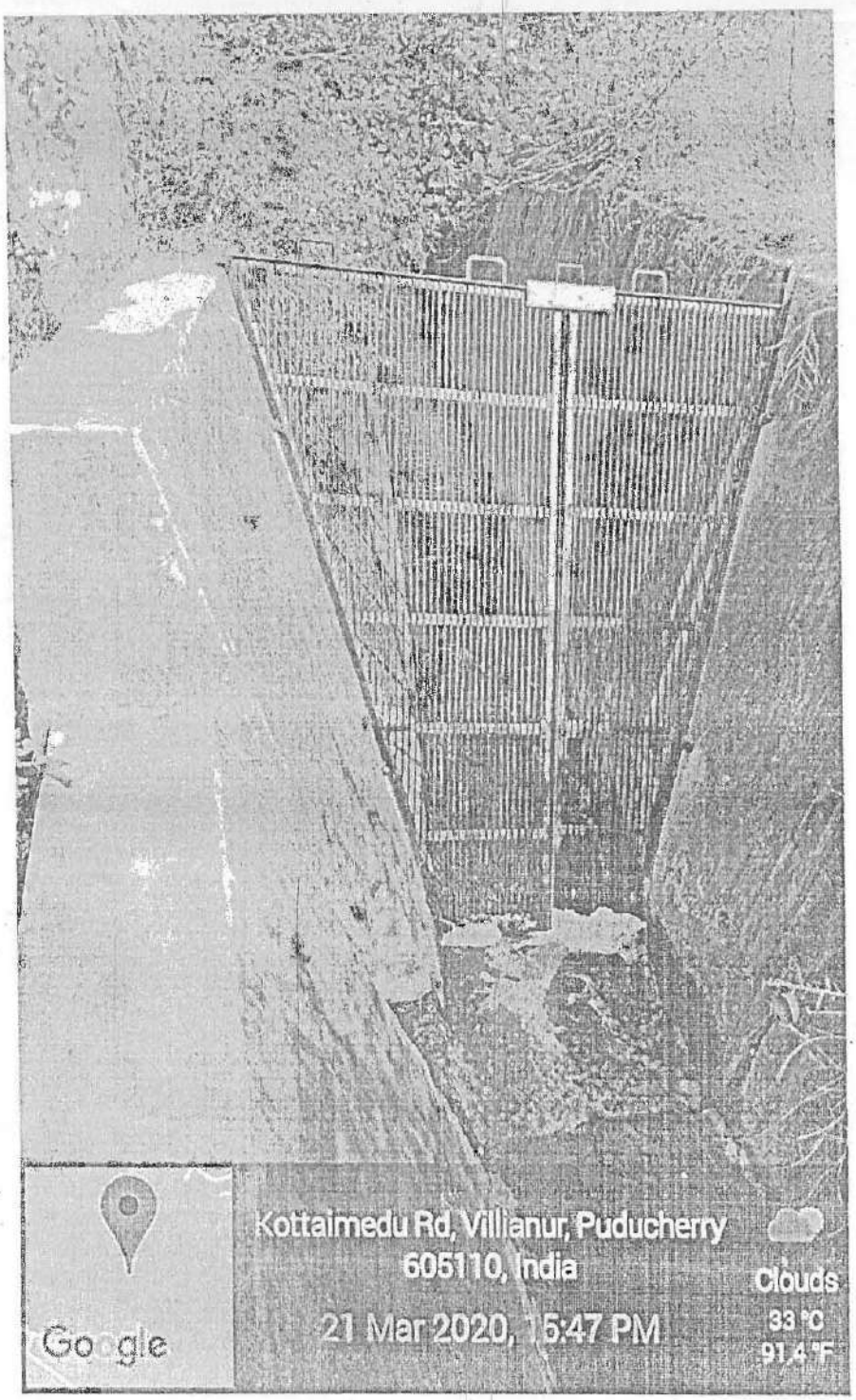
LOCATION-III

KOTTAIMEDU (NATHAN NAGAR END), VILLIANUR



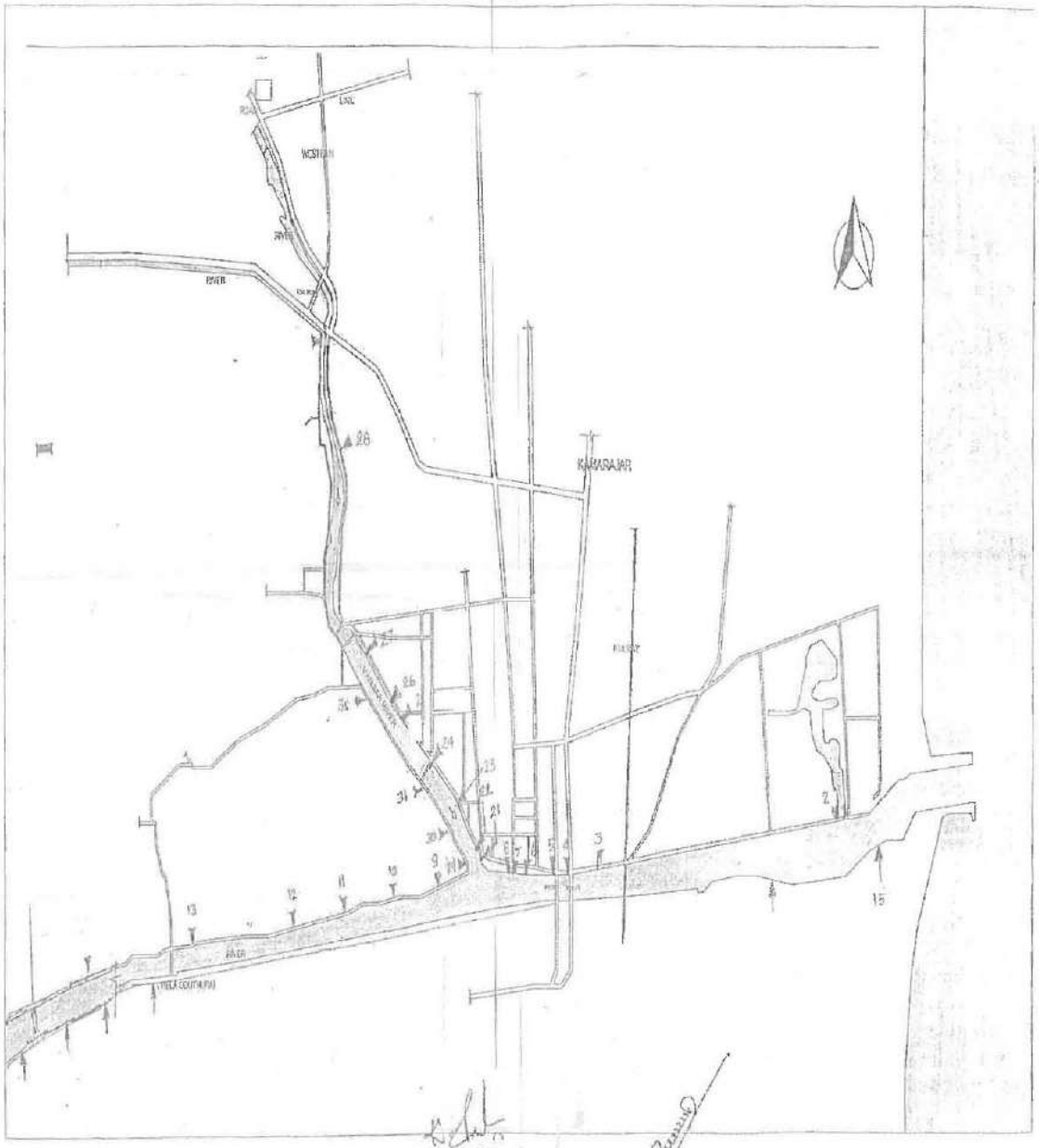
LOCATION-IV

KANUVAPET, VILLIANUR



ANNEXURE – I

Drains Joining the Arasalar



Chunnambar River Water Quality Data			
S.No	Parameters	Mar-20	Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B
1	Date of sampling	03.03.2020	
2	Time	03.00 P.M	
3	Temp°C	30	
4	pH	7.37	6.5-8.5
5	DO (mg/l)	6.6	5 or more
6	BOD (mg/l)	3.25	3 or less
7	Faecal Coliform MPN/100ml	280	500 (Desirable) and 2500 (Max. Permissible)
8	Faecal Streptococci MPN/100ml	170	100 (Desirable) and 500 (Max. Permissible)

Arasalar River Water Quality Data			
S.No	Parameters	Mar-20	Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B
1	Date of sampling	10.03.2020	
2	Time	09.15 A.M	
3	Temp°C	29	
4	pH	7.78	6.5-8.5
5	DO (mg/l)	5.9	5 or more
6	BOD (mg/l)	BDL	3 or less
7	Faecal Coliform MPN/100ml	540	500 (Desirable) and 2500 (Max. Permissible)
8	Faecal Streptococci MPN/100ml	350	100 (Desirable) and 500 (Max. Permissible)

MPN- Most Probable Number

Drains to Chunnambar River

S.No	Parameters	Kanuvapet	Odianpet
1	Date	10.03.2020	10.03.2020
2	Time	11.15 AM	11.30 AM
3	Temp°C	30	29.5
4	pH	7.56	7.82
5	COD (mg/l)	168	76
6	BOD (mg/l)	58	52.5
7	TSS (mg/l)	55.0	14.0
8	Faecal Coliform MPN/100ml	430	540
9	Faecal Streptococci MPN/100ml	350	430

Drains to Arasalar River

S.No	Parameters	Vanjiyar	Puduthurai
1	Date	10.03.2020	10.03.2020
2	Time	09.45 A.M	09.30 A.M
3	Temp°C	32	29
4	pH	7.64	7.19
5	TSS (mg/l)	126.0	83.0
6	BOD (mg/l)	BDL	6.0
	COD (mg/l)	56	64.0
8	Faecal Coliform MPN/100ml	430	920
9	Faecal Streptococci MPN/100ml	280	540

BDL - Below Detectable Limit

ADOPTION OF GOOD IRRIGATION PRACTICE

1. In the present budget a subsidy of Rs. 5000/- has been proposed for cultivation of Millets / Minor Millets which would help in reducing water usage.
2. It is proposed to cover more area under precision farming.
3. System of Rice Intensification (SRI) is popularized among the farming community as a water saving measure.
4. Sustainable Sugarcane Initiative (SSI) for reducing water consumption in sugarcane crops is also being popularized.
5. Attractive subsidy assistance is being extended to farmers for installation of Drip / Sprinkler irrigation devices.
6. Attractive subsidy assistance is being extended to farmers for laying underground pipelines for conveyance of irrigation water.

ANNEXURE - V

PROTECTION AND MANAGEMENT OF FLOOD PLAIN ZONES (FPZ)

Sl. No.	Key components of proposed action plans for restoration of identified polluted river stretches in States / UTs	Proposed Achievable Target	Proposed Time Targets for Compliance	Present status and or Pendency in terms of %	Remarks
1.	**Flood Plain Zone protection and its management**	Proposal submitted for approval of 50.00 Crore	2020 - 2025	The Karaikal Region is receiving water from the Seven Cauvery distributaries from Tamilnadu. The flood / excess water due to rainfall run off will be released and regulated by Tamilnadu Irrigation Division from the upper reaches through these seven distributaries. The river banks and the inspection tracks are almost strengthened to receive the flood water from upper reaches in Tamilnadu and to dispose safely to the Ocean (Bay of Bengal). However flood protection scheme works has been included under Flood Management and Border Area Programme for an amount of Rs.50 Crore in the proposal for the period from 2020-2025 for getting approval from Government. The details are enclosed, in which for protecting the Arasalar river bank an estimate for an amount of Rs.10.00 Crore is earmarked to protect the Left Bank of Arasalar river above tail end regulator at Melaoduthurai.	After getting approval of works under Flood Management and Border Area Programme, DPR will be submitted

ANNEXURE – VI

Ground Water Recharge / Rain Water Harvesting

Government of Puducherry is taking continuous efforts to protect and restore the ground water resources and fulfill the water requirement of present without compromising the needs of future generation. The details of the various actions taken by the Government of Puducherry on Ground Water Recharge and Rain Water Harvesting are stated below:

1. U.T of Puducherry prepared a separate Water Policy in 2016 to develop, conserve and manage the water resources in the region in a sustainable manner guided by the national perspective. The policy encourages to take all efforts to store the surplus rain water in the canals, ravines and rivers by way of constructing small bed dams or regulators. Traditional water conservation practices of rain water harvesting including roof top rain water harvesting is also promoted through appropriate legislative measures.

2. The Puducherry Building By-laws and Zoning Regulations mandates the building owners to take effective measures for rain water harvesting and necessary conditions are incorporated in the Building Permits. The planning authorities while issuing occupancy certificate ascertain that the conditions stipulated in the building permits regarding rain water harvesting measures have been complied with.

3. The Puducherry Ground Water Authority has been constituted under the Pondicherry Ground Water (Control & Regulation) Act, 2002 to effectively and efficiently control and regulate the extraction of Ground water in the Union Territory. The Puducherry Ground Water Authority does not issues fresh permits / renews permits to any industries / institutions unless it is installing the Rain Water Harvesting System in their respective buildings. This is put as a precondition and insisted upon while granting clearance to the industries.

4. Rain water harvesting structures have been provided in all Government buildings at Government cost wherever feasible. The Department of Agriculture constructed 30 roof top rain water harvesting structures in Government buildings. Public Works Department, Puducherry constructed 165 roof top rain water harvesting structures in

the U.T. Government has taken up desilting of urban drains, rural canals and village ponds with the cooperation of the general public and donor institutions under various projects initiated by the U.T. government since 2017 viz. Water Rich Puducherry program initiated by the Hon'ble Lieutenant Governor of Puducherry, Neerum Oorum Program and Nam Neer Program initiated by the District Collectors of Puducherry and Karaikal Districts respectively. Under these programs Government Employees are motivated by the administration to contribute for the desilting of water bodies through Employee Social Responsibility (ESR) Fund as a pioneer initiative which received an overwhelming response. The Industries and Institutions are also encouraged to take up the restoration works under CSR. Public Participation and Student Participation are encouraged to strengthen the community ownership. To make the restoration initiative sustainable, a team is formed for each pond in a combination of SHG of the own Village, NSS students of the own Villages and Self Interest Groups like Lion Club, Rotract Club, etc., for future maintenance.