



TAMIL NADU POLLUTION CONTROL BOARD

**Action Plan on Rejuvenation of
River Cauvery
Mettur to Mayiladuthurai Stretch
(Priority-I)**

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Comprehensive Report on Prevention and Control of Pollution in River Cauvery (Priority-I): An Action Plan for Rejuvenation

1.0 Introduction.

The Hon'ble National Green Tribunal (NGT) Principal Bench took Suo-Moto Cognizance of news report appeared in "The Hindu" authorized by Shri. Jacob Koshy titled "More River Stretches are now critically polluted – CPCB" and issued directions in para 50(i) to (x) vide its Original Application No. 673/2018 dated: 20.09.2018

1. All States and Union Territories are directed to prepare action plans within two months for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e., BOD < 3 mg/L and FC < 500 MPN/100 ml) within six months from the date of finalisation of the action plans.
2. The action plans may be prepared by a four-member Committee comprising,
 - a. **Director, Environment**
 - b. **Director, Urban Development**
 - c. **Director, Industries**
 - d. **Member Secretary, TNPCB**

This Committee will also be the Monitoring Committee for execution of the action plan. The Committee may be called as "**River Rejuvenation Committee**" (**RRC**). The RRC will function under the overall supervision and coordination of Principal Secretary, Environment & Forest, Govt. of Tamilnadu.

3. The action plan will include components like identification of polluting sources including functioning/ status of STPs/ETPs/CETP and solid waste management and processing facilities, quantification and characterization of solid waste, trade and sewage generated in the catchment area of polluted river stretch. The action plan will address issues relating to; ground

water extraction, adopting good irrigation practices, protection and management of Flood Plain Zones (FPZ), rain water harvesting, ground water charging, maintaining minimum environmental flow of river and plantation on both sides of the river. Setting up of biodiversity parks on flood plains by removing encroachment shall also be considered as an important component for river rejuvenation. The action plan should focus on proper interception and diversion of sewage carrying drains to the Sewage Treatment Plant (STP) and emphasis should be on utilization of treated sewage so as to minimize extraction of ground or surface water. The action plan should have speedy, definite or specific timelines for execution of steps. Provision may be made to pool the resources, utilizing funds from State budgets, local bodies, State Pollution Control Board/Committee and out of Central Schemes.

4. The Action Plans may be subjected to a random scrutiny by a task team of the CPCB.
5. The Chief Secretaries of the State and Administrators/ Advisors to Administrators of the Union Territories will be personally accountable for failure to formulate action plan, as directed.
6. All States and Union Territories are required to send a copy of Action Plan to CPCB especially w.r.t Priority I & Priority II stretches for approval.
7. The States and the Union Territories concern are directed to set up Special Environment Surveillance Task Force, comprising nominees of District Magistrate, Superintendent of Police, Regional Officer of State Pollution Control Board and one person to be nominated by District Judge in his capacity as Chairman of Legal Services Authority on the pattern of direction of this Tribunal dated 07.08.2018, in *Original Application No. 138/2016 (TNHRC), "Stench Grips Mansa's Sacred Ghaggar River (Suo-Motu Case)*.
8. The Task Force will also ensure that no illegal mining takes place in riverbeds of such polluted stretches.

9. The RRC will have a website inviting public participation from educational institutions, religious institutions and commercial establishments. Achievement and failure may also be published on such website. The Committee may consider suitably rewarding those contributing significantly to the success of the project.
10. The RRCs will have the authority to recover the cost of rejuvenation in Polluter Pays Principle from those who may be responsible for the pollution, to the extent found necessary. In this regard, principle laid down by this Tribunal in order dated 13.07.2017 in O.A No. 200 of 2014, M.C. Mehta Vs. U.O.I will apply. Voluntary donations, CSR contribution, voluntary services and private participation may be considered in consultation with the RRC.

Based on the directions of Hon'ble NGT (PB) vide its Original Application No. 673/2018 dated: 20.09.2018 the Principal Secretary (Environment & Forest) has convened the River rejuvenation committee meeting on 14.11.2018 regarding the directions issued by the Hon'ble NGT (PB) to prepare action plan for the rejuvenation/restoration of polluted river stretches in Tamil Nadu with the heads of the following departments:

1. Municipal Administration and Rural development and its line departments,
2. Chennai Metro Water Supply and Sewage Board.
3. Tamil Nadu Water Supply and Drainage Board.
4. Environment & Forest.
5. Central Pollution Control Board, Bangalore.
6. Tamil Nadu Pollution Control Board.

In the meeting it was decided to evolve the detailed action plan for the rejuvenation/restoration of polluted river stretches in Tamil Nadu. The minutes of the meeting was communicated to the above departments requesting certain details with action plan for the rejuvenation/restoration of polluted river stretches in Tamil Nadu. Remainder was also communicated to the above departments.

As per the Hon'ble NGT (PB) directions in its Original Application No. 673/2018 dated: 20.09.2018, Four member River Rejuvenation Committee (RRC)

was constituted in Tamil Nadu and Government Order (G.O.) was issued by the Environment and Forest (EC.1) Department vide G.O. (D) No. 372 dated: 26.12.2018 (copy enclosed) to execute and to review the action plan for the Rejuvenation/Restoration of water along the polluted river stretches in Tamil Nadu as ordered by the Hon'ble National Green Tribunal, Principal Bench. River Rejuvenation Committee (RRC) members are as follows:

1. Industries Commissioner.
2. Commissioner, Municipal Administration.
3. The Director of Environment.
4. The Member Secretary, Tamil Nadu Pollution Control Board.

The RRC will function under the overall supervision and coordination of Principal Secretary, Environment and Forests Department, Government of Tamil Nadu.

2.0 Introduction about the River Cauvery

River Cauvery, also referred as Ponni, is an Indian river flowing through the states of Karnataka and Tamil Nadu. It is the third largest after Godavari and Krishna in south India and the largest in Tamil Nadu which on its course bisects the state into North and South. Originating in the foothills of Western Ghats at Tala Cauvery, Kodagu in Karnataka, it flows generally south and east through Karnataka and Tamil Nadu and across the southern Deccan plateau through the southeastern lowlands, emptying into the Bay of Bengal through two principal mouths in Poompuhar, Tamil Nadu. Amongst the river valleys, the Cauvery delta forms one of the most fertile regions in the country.

The Cauvery basin is estimated to be 81,155 square kilometres (31,334 sq mi) with many tributaries including Harangi, Hemavathi, Kabini, Bhavani, Arkavathy, Lakshmana Tirtha, Noyyal and Arkavati. The river basin covers three states and a Union Territory as follows: Tamil Nadu, 43,856 square kilometres (16,933 sq mi); Karnataka, 34,273 square kilometres (13,233 sq mi); Kerala, 2,866 square kilometres (1,107 sq mi), and Puducherry, 160 square kilometres (62 sq mi). Rising in southwestern Karnataka, it flows southeast some 800 kilometres (500 mi) to enter the Bay of Bengal. In Mandya district it forms the island of Shivanasamudra, on either side of which are the scenic Shivanasamudra Falls that descend about 100 metres (330 ft). The river is the source for an extensive irrigation system and for hydroelectric power. The river has supported irrigated agriculture for centuries and served as the lifeblood of the ancient kingdoms and modern cities of South India. Access to the river's waters has pitted Indian states against each other for decades.

The river enters Tamil Nadu through Dharmapuri district leading to the flat plains where it meanders. It drops into the Hogenakkal Falls just before it arrives in the town of Hogenakkal in Tamil Nadu. The three minor tributaries, Palar, Chinnar and Thoppar enter into the Cauvery on her course, above Stanley Reservoir in Mettur, where the dam has been constructed. It then flows further through the length of Erode district where the river Bhavani, running through the breadth of the district, merges with it. The confluence of the rivers Cauvery, Bhavani and Akash Ganga (mythological) is at the exact place of Bhavani, Tamil Nadu Kooduthurai or Tiriveni Sangamam, Northern part of Erode City.

While passing through Erode, two more tributaries merge with the River. Thirumani Mutharu joins it in a village called Kududurai in Namakkal District. Noyyal and Amaravathi join it in Karur district before it reaches Tiruchirapalli district. Here the river becomes wide, with a sandy bed, and flows in an eastern direction until it splits into two at upper Anicut about 14 kilometres (9 mi) west of Tiruchirappalli. The northern branch of the river is called the Kollidam while the southern branch retains the name Cauvery and then goes directly eastwards into Thanjavur District. These two rivers join again and form the Srirangam Island that is a part of the city of Tiruchirapalli. The oldest functional dam Grand Anicut or Kallanai was present at this place. From Thanjavur, the river splits and goes to few places in the Delta Cauvery. The total length of River Cauvery in Thanjavur District is 82.7 km. Grand Anicut (Kallanai Dam) is the first regulator across the River Cauvery in Thanjavur District in Thohur village. Rivery Coleroon, River Cauvery, River Vennar and Grand Anicut canal branches from Kallanai Regulator. The River Cauvery flows through Budalur Taluk, Thiruvaiyaru Taluk, Thanjavur Taluk, Papanasam Taluk and Thiruvidadaimaruthur Taluk and leaves Thanjavur District at Narasinganpettai village and enters into Nagapattinam District.

Nagapattinam District lies in the Tail end of Cauvery Delta System. The terrain of the district is plain and the eastern boundary is coastal line of Bay of Bengal. In Nagapattinam District River Cauvery flows from Thiruvalangadu Village, Kuttalam Taluk and ends to Poombuhar Village, Sirkali Taluk. The Total length of River Cauvery in Nagapattinam District is 43.97 km. The River passes through Kuttalam Taluk, Mayiladuthurai Taluk, Tharangambadi Taluk and reaches Bay of Bengal at Poombuhar, Sirkali Taluk of Nagapattinam District.

2.1 The details on the tributaries of River Cauvery

| S. No | Tributaries | Origin | Confluence with the River Cauvery | District |
|-------|------------------------|-------------|-----------------------------------|----------|
| 1 | River Thirumanimutharu | Manjavadi | Nanjai Edayar | Salem |
| 2 | River Sarabanga | Danishpet | Annamar Kovil | Salem |
| 3 | River Noyyal | Velliangiri | Noyyal | Karur |
| 4 | Amaravathy | Manjampatty | Thirumukkudalur | Karur |

| | | | | |
|---|---------------|-----------------|-----------------|--------------|
| | | Valley | | |
| 5 | Viramanar | Thiruvallangadu | Korkkai | Nagapattinam |
| 6 | Manjalar | Sathanur | Annapanpetai | Nagapattinam |
| 7 | Mahimalaiyar | Mallarpettai | Kannappanmoolai | Nagapattinam |
| 8 | Veeracholanar | Sathanur | Devanur | Nagapattinam |
| 9 | Nandalar | Komal | Chandrapadi | Nagapattinam |

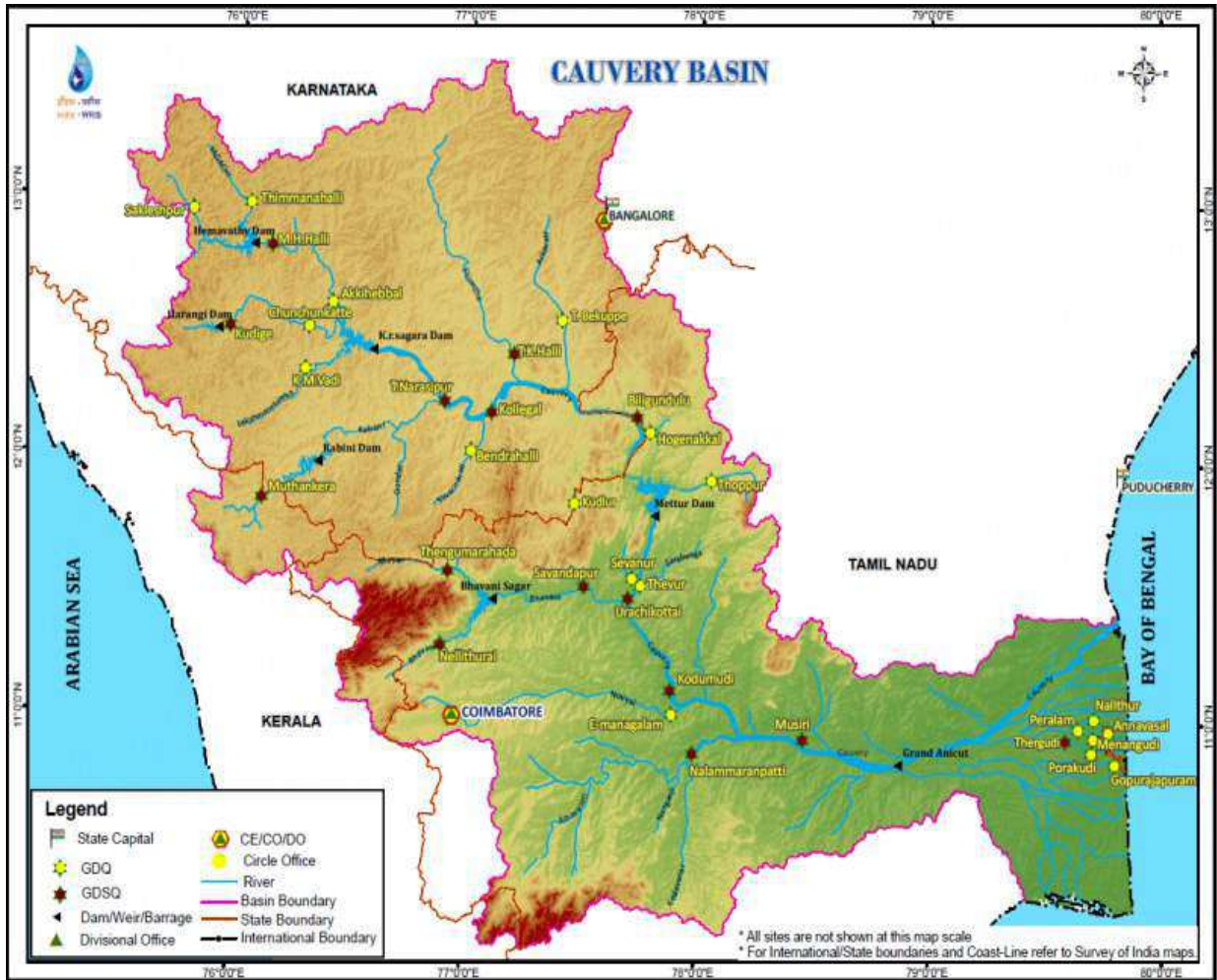


Fig-1 River Cauvery Flow Map

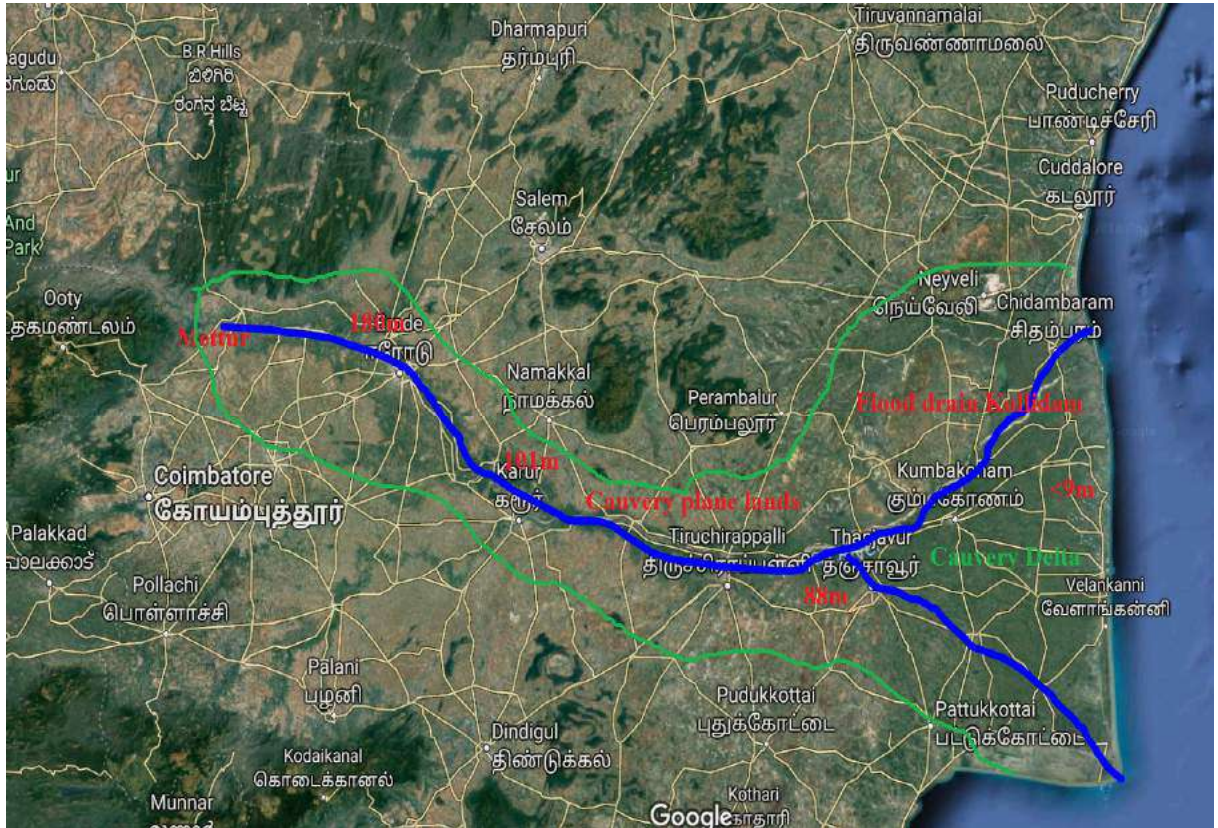
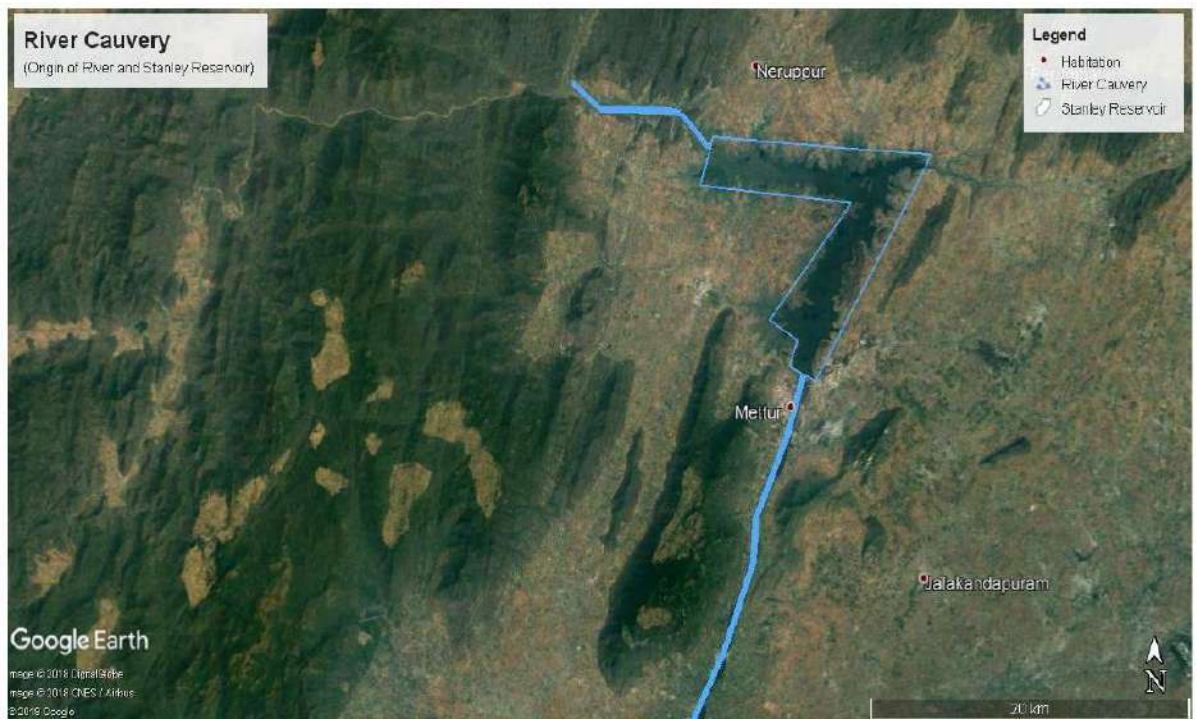


Fig-2 Map showing the location of River Cauvery



Map showing the location of River Cauvery

3.0 District wise particulars

1. SALEM DISTRICT

1.1.1 Details of Stanley Reservoir

Stanley Reservoir (also known as Mettur dam) is one of largest fishing reservoirs in South India. Its main source of water is the River Cauvery (Cauvery). Three minor tributaries – Palar, Chennar and Thoppar – enter the Cauvery on her course above Stanley Reservoir. The water is retained by the Mettur Dam, Tamil Nadu. Its total capacity is more than 93,470,000,000 cubic feet (93.47 Tmcft). (2,146,071 acre ft)

The Stanley Reservoir is one of the largest of its kind in India. It was completed in 1934. The creation of the reservoir caused the submersion of two villages, all of whose inhabitants were relocated to Mettur.

The total length of the dam is 1700 meters. The Mettur hydroelectric power project is also quite large. The dam, the park, the major hydroelectric power stations and hills on all sides make Mettur a tourist attraction.

1.1.2 Source of Pollution in river stretch:

I. Details of major industries located in Mettur as follows:

- M/s. Mettur Thermal Power Station I & II
- M/s. Chemplast Sanmar Limited Plant – I
- M/s. Chemplast Sanmar Limited Plant - II
- M/s. Chemplast Sanmar Limited Plant - III
- M/s. Chemplast Sanmar Limited Plant - IV
- M/s. Cabot Sanmar Limited Plant - V
- M/s. Chemplast Sanmar Limited - Power Plant
- M/s. The Madras Aluminum Company Limited
- M/s. Malco Energy Limited - Power Plant.
- SIDCO Industrial Estate, Mettur:

Mettur SIDCO is functioning since 17.11.1995. The total area is 209.8 acres.

- Not in operation units:
 - ❖ M/s. Malco Energy Limited - Power Plant
 - ❖ M/s. The Madras Aluminum Company Limited

II. Details of Sewage Treatment Plants located near River Cauvery

The Mettur municipality is operating 2 STP's with designed capacity 6.374 MLD at Mettur. The part of the sewage is treated in the STP and discharge into surplus course. The Remaining sewage generated is now being discharged into River Cauvery

- Mettur Sewage Treatment Plant I
- Mettur Sewage Treatment Plant II
- Mettur Sewage Treatment Plant III

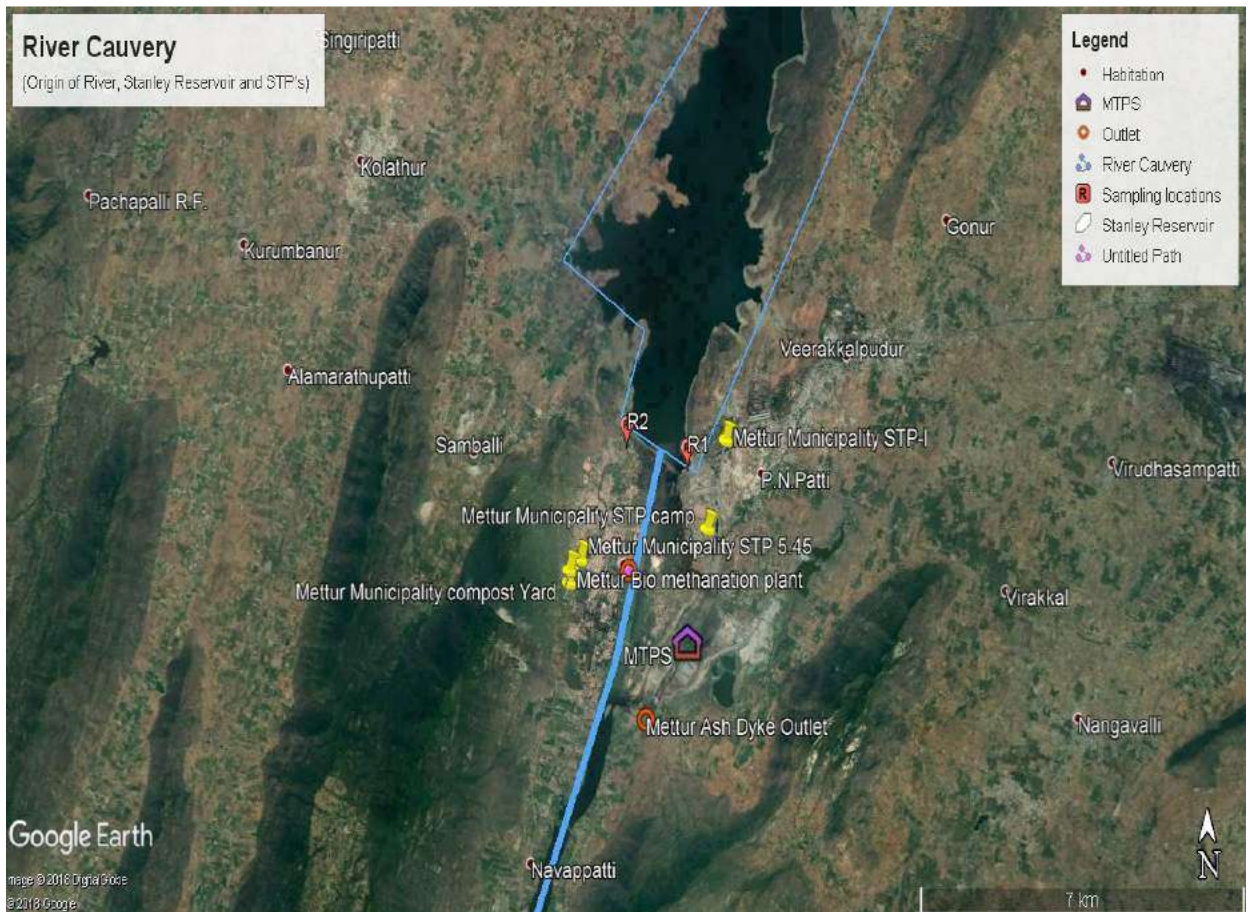


Fig-3 Map showing the locations of the STP's around the Stanley Reservoir

River Cauvery (Sewage/Effluent Out-fall & Solid Waste Dumping Points)



Sewage Outfall Points

1. Thangamapuri Pattinam (OF1)
2. NH 544H, Mettur(OF2)
3. Madhayankuttai, Navappatti(OF3)
4. Kaveri River Bridge(OF4)
5. SH 158 near Mettur(OF5)
6. Near Raja Auto Works(OF6)
7. Coolie Line, Mettur(OF7)
8. Union School St(OF8)
9. 16 Bridge(OF9)
10. Church Road, Chinnamettur(OF10)
11. RE Quarters, Chinnamettur(OF11)

Solid wastes dumping point

1. Indira Nagar (S1)

Photographs showing the sewage out-fall points



River Cauvery – Thangamapuri Pattinam (Mettur Municipality) – 11°48'20"N, 77°49'90"E



River Cauvery – SH 158 near Mettur (Mettur Municipality) – 11°46'13"N, 77°48'12"E



River Cauvery – NH 544H, Mettur (Mettur Municipality) - 11°47'50"N, 77°48'56"E



River Cauvery – Madhayankuttai, Navappatti (Mettur Municipality) - 11°46'60"N, 77°47'50"E

Photographs showing the sewage out-fall points



River Cauvery – Kaveri River Bridge (Mettur Municipality) - 11°46'21"N 77°48'50"E



River Cauvery – RAW Raja Auto Works (Mettur Municipality) - 11°47'22"N, 77°47'53"E

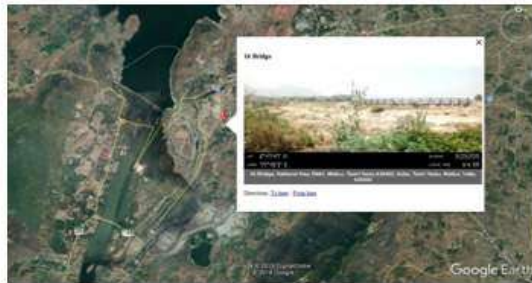


River Cauvery – Coolie Line, Mettur (Mettur Municipality) - 11°47'22"N, 77°47'53"E



River Cauvery – Union School Street (Mettur Municipality) - 11°46'24"N, 77°48'24"E

Photographs showing the sewage out-fall points



**River Cauvery – 16 Bridge (Mettur Municipality)
- 11°47'47"N, 77°49'30"E**



**River Cauvery – Church Road, Chinnamettur
(Mettur Municipality) - 11°46'58"N 77°47'50"E**



**River Cauvery – RE Quarters, Chinnamettur
Mettur (Mettur Municipality) - 11°46'43"N 77°47'45"E**

Photographs showing the Solid Waste Dumping Points



River Cauvery – Indira Nagar, Mettur - 11°47'06.5"N 77°48'04.9"E

➤ **Sewage Management**

Three STPs were installed along the polluted river stretch in which two are under operable condition. However, they are not in operation due to the incompleteness of UGD system. No treated sewage is discharged into the River. There is no sewage flow on the upstream side of the River Cauvery.

1.2 Initiatives taken by TNPCB for ensuring compliance to the Hon'ble National Green Tribunal (NGT) Direction dated 20.09.2018. Meeting held with the Officials of River Rejuvenation Committee.

Initiatives taken by TNPCB in pursuance to the Hon'ble National Green Tribunal (NGT) direction dated 20.09.2018 & 19.12.2018 are detailed below

1.2.1 Meeting held with the Officials of River Rejuvenation Committee

In pursuance to the Hon'ble NGT Direction dated 20.09.2018, Tamil Nadu Pollution Control Board (TNPCB) convened a meeting in Secretariat on 14.11.2018 chaired by The Principal Secretary, E&F department, Chennai with the Officials of CMWSSB, Municipal Administration and Water Supply, Rural Development and Panchayat Raj, CPCB, Bangalore, TWAD, and officials from TNPCB and discussed issues relating to Rejuvenation of Polluted River Stretches in Tamil Nadu. A copy of the minutes of the meeting held with the various department officials is enclosed as Annexure. Main decisions taken in the aforesaid meeting are as follows:

- i) The Joint Commissioner Municipal Administration and The Joint Director, Rural Development and Panchayat Raj shall submit the detailed action plan with short and long term measures on or before 30/11/2018 for sewage and solid waste management along the polluted river stretches. The department shall boost their local bodies fund by increasing the property tax and utilise the fund for implementation of the action plan.

- ii) The Member Secretary, Central Ground Water Authority and state Public Works department (WRO, Irrigation) shall submit the details on or before 30.11.2018 for ground water protection.
- iii) The TNPCB and the industries department shall collect the Industrial Pollution control data along the Polluted River stretches on or before 30.11.2018

1.2 Teams constituted for sample collection by the AELs, and DELs by TNPCB.

Tamil Nadu Pollution Control Board (TNPCB) has constituted 6 Teams to carry out Sample collections for the polluted river stretches, vide Memo No. TNPCB/DD (L)/F.No.6849/2016 dated 29.12.2018.

1.3 District/Area wise details of industries

A. Details of industries in operation

| Sl. No. | Taluk | Large | | | | Medium | | | | Small | | | | Total |
|---------|--------|-------|--------|-------|-------|--------|--------|-------|-------|-------|--------|-------|-------|-------|
| | | Red | Orange | Green | White | Red | Orange | Green | White | Red | Orange | Green | White | |
| 1 | Mettur | 12 | 3 | 1 | 0 | 1 | 2 | 1 | 0 | 119 | 51 | 58 | 9 | 257 |

Industry details are attached vide Annexure-I.

B. Details of industries located in the villages of Mettur Taluk where the River passes:

| Type of units | Total |
|---|-------|
| Chemical Industries, Power Plants, Hospital, Service stations, Plastic Units | 109 |

1.3.1 Details of sample collection

Location for Cauvery River – Dharmapuri District.

| SL. No. | Sample No. | Name of the Sampling Location | Date and Time Collection | Latitude and Longitude | River/ Drain (Stagnated Water) | | |
|---------|------------|-----------------------------------|--------------------------|------------------------|--------------------------------|-----|-----|
| | | | | | Classification | | |
| | | | | | River | G.W | B.W |
| 01. | 1791 | Biligundu | 04.01.2019 at 12.00 | 12.131222 77.76393 | ✓ | - | - |
| 02. | 1792 | Hogenakkal | 04.01.2019 at 13.03 | 12.122921 77.77471 | ✓ | - | - |
| 03. | 1793 | Hogenakkal Main Falls Entry Point | 04.01.2019 at 13.30 | 12.118871 77.778286 | ✓ | - | - |

Location for Cauvery River and Drain – Salem District.

| SL. No. | Sample No. | Name of the Sampling Location | Date and Time Collection | Latitude and Longitude | River/ Drain (Stagnated Water) | | |
|---------|------------|--|--------------------------|------------------------|--------------------------------|-----|-----|
| | | | | | Classification | | |
| | | | | | River | G.W | B.W |
| 01. | 1721 | Mettur Stanley Reservoir | 02.01.2019 at 14.05 | 11.8001 77.813474 | ✓ | - | - |
| 02. | 1722 | Surplus Canal (Confluence Canal Cauvery Reservoir) | 02.01.2019 at 15.45 | 11.803513 77.801417 | ✓ | - | - |
| 03. | 1723 | Mettur Sewage Outlet (Down Stream) | 02.01.2019 at 16.15 | 11.78515 77.801014 | ✓ | - | - |
| 04. | 1724 | MTPS Ash Dyke Outlet | 02.01.2019 at 17.00 | 11.762885 77.805234 | ✓ | - | - |

a) Samples from Industries

| Sl. No. | Point of collection | GPS coordinates | | Date of sample collection |
|---------|-----------------------------------|-----------------|--------------|---------------------------|
| 1 | M/s. Mettur Thermal Power Plant I | 11°46'14.7"N | 77°48'45.9"E | 23.11.2018 |

The unit of M/s. Mettur Thermal Power Plant I is discharging the partially treated effluent into the Surplus course of the River Cauvery which confluence with the main stream.

b) Ground water samples collected details along the River stretch (BoreWell, dug well etc.)

| Sl. No. | Point of collection | GPS coordinates | | Date of sample collection |
|---------|--------------------------------|-----------------|----------------|---------------------------|
| 1 | Openwell at Karumalai Kudal | 11°48'13.104"N | 77°49'34.668"E | 22/02/2018 |
| 2 | Openwell at Ramamoorthy Nagar, | 11°48'50.226"N | 77°49'42.384"E | 22/02/2018 |

c) River water and drain samples collected details with live photograph

| Sl. No. | Point of collection | GPS coordinates | | Date of sample collection |
|---------|--|-----------------|---------------|---------------------------|
| 1 | Mettur Stanley Reservoir | 11°48'0.40"N | 77°48'48.50"E | 02/01/2019 |
| 2 | Surplus Canal (Confluence Canal Cauvery Reservoir) | 11°48'12.70"N | 77°48'5.10"E | 02/01/2019 |
| 3 | Mettur Sewage Outlet (Down Stream) | 11°47'6.60"N | 77°48'6.80"E | 02/01/2019 |
| 4 | MTPS Ash dyke Outlet | 11°45'47.02"N | 77°48'18.99"E | 02/01/2019 |

Sample Collection Photographs



Sample Collected at Mettur Stanley Reservoir



Sample collected at Surplus Canal (Confluence Canal Cauvery Reservoir)



Sample collected at Mettur Sewage Outlet (Down Stream)



Sample collected at MTPS Ash dyke Outlet

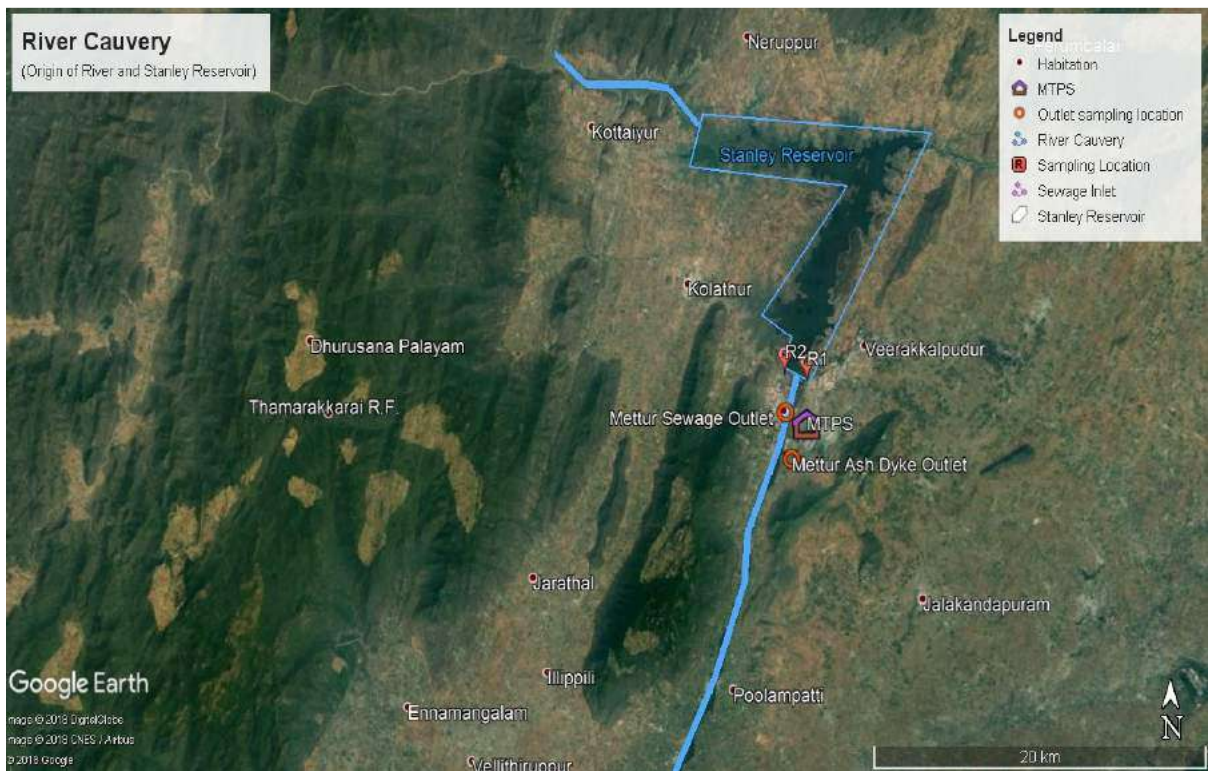


Fig-4 Map showing the sampling locations along the River Cauvery

1.4 Status of water quality of ground water and drains in the studyarea

Table-1 Report of analysis for River Cauvery and drains, Mettur, Salem District.

| Sl. No. | Sample No. | Point of collection | DO | Faecal Coliform | BOD | Cu | Zn | Pb | Cd | Ni | Mn | Fe | T.Cr | Status of compliance with respect to WQC limit |
|--|------------|--|----------|------------------|----------|-------------|-------------|------------|-------------|------------|------|-----------|-------|--|
| | | | mg/l | MPN/100MI | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 1 | 1721 | Mettur Stanley Reservoir | 8.1 | 3.7 | <2 | <0.001 5 | <0.001 5 | <0.0 15 | <0.0 008 | <0.0 06 | <0.1 | <0.0 5 | <0.05 | Complied |
| 2 | 1722 | Surplus Canal (Confluence Canal Cauvery Reservoir) | 8.3 | 21 | <2 | <0.001 5 | <0.001 5 | <0.0 15 | <0.0 008 | 0.00 8 | <0.1 | <0.0 5 | <0.05 | complied |
| 3 | 1723 | Mettur Sewage outlet (Downstream) | 3.4 | 70 | 4.2 | <0.001 5 | <0.001 5 | <0.0 15 | <0.0 008 | <0.0 06 | <0.1 | <0.0 5 | <0.05 | Complied except BOD |
| 4 | 1724 | MTPS Ash Dyke outlet | 7.1 | <1.8 | <2 | 0.9884 5 | <0.001 5 | <0.0 15 | <0.0 008 | <0.0 06 | <0.1 | <0.0 5 | <0.05 | complied |
| Water quality criteria (WQC) limit for Bathing | | | ≥ 5 mg/l | ≤ 500 MPN/100 ml | ≤ 3 mg/l | - | - | - | - | - | - | - | - | |

1.5 Assessment of Compliance of the effluents/sewage discharge norms by the industries in study area.

The Report of analysis of the treated trade effluent samples collected from Mettur Thermal Power Plant I & II reveals that the parameters are within the prescribed by the Board.

- Details on Consent / Authorization issued by the Board for the establishment of the STP / Solid waste facility.

a. Sewage Treatment Plant

| Sl. No. | Name and address of the STP | Consent Status |
|---------|---|-------------------------------|
| 1 | M/s.Mettur Municipality STP Ward-B, Block-2, TS No.2,3 4 Near Municipal Farm Mettur Taluk, Salem District | CTE-Valid upto on 30.01.2017. |
| 2 | M/s.Mettur Municipality STP Salem Camp Ward- C Block-12 TS No.2 to 10 Mettur Municipality Mettur, Salem | CTO-Valid upto on 31.03.2019 |

| | | |
|---|---|-------------------------------------|
| 3 | M/s.Mettur Municipality STP-I Ward-C Blocl-3 TS No 1 Near Metur Thermal Power Station Mettur Taluk, Salem District. | CTE-Valid upto on 27.12.2021. |
|---|---|-------------------------------------|

b. Solid Waste Facility:

Mettur Municipality has provided decentralized micro composting centres across city to manage the bio degradable solid.

Mettur Municipality has installed Bio Methenation plant and the consent was renewed upto 31.03.2018.

The Mettur Municipality has applied for the authorization of the micro composting centres and it is in process.

| S.I. No | Name and address of the STP | Total Sewage generation in MLD | Disposal (land River sea or any other) | Status Operational/Non-Operational Under Construction | STP present inflow |
|---------|--|--------------------------------|--|---|--------------------|
| 1 | M/s.Mettur Municipality STP Ward-B, Block-2, TS No.2,3 4 Near Municipal Farm Mettur Taluk, Salem District | 5.45 | On land for Gardening/Irrigation | Constructed. UGD system is not ready for operation. | Nil |
| 2 | M/s.Mettur Municipality STP Salem Camp Ward- C Block-12 TS No.2 to 10 Mettur Municipality Mettur, Salem | 0.924 | On land for Gardening/ Irrigation | Not in operation | Nil |
| 3 | M/s.Mettur Municipality STP-I Ward-D, Block-1, TS. No-11 Near Metur Thermal Power Station Mettur Taluk, Salem District | 0.823 | Sewage farming in own Land | Under Construction | Nil |

1.6 Status of industry wise water consumption, wastewater generation and final mode of industrial effluent discharge:

Details are enclosed vide Annexure-I.

1.7 Operation Status of ETPs:

- The ETP provided by the unit of M/s. Chemplast Sanmar Limited I is under operation and completely reuses the trade effluent in its process.
- The unit of M/s. Chemplast Sanmar Limited II & III and Power plant has provided combined ETP with Reverse Osmosis Plant (RO) & Reject management System (RMS) as a tertiary treatment for the treated trade effluent so as to achieve Zero Discharge of trade effluent .
- The unit of M/s. Chemplast Sanmar Limited IV is not under operation for the past 8 years.
- The unit of M/s. The Madras Aluminium Company Ltd., (MALCO) was not in operation since January 2009 due to non-availability of raw materials.
- M/s. MALCO Energy Ltd - Power Plant was not under operation since May 2017.
- Mettur SIDCO Industrial Estate is functioning from 17.11.1985 covers around 209.80 acres of land. The following industries are under operation.
 - Chemical Industries – 57
 - Plastic Industries – 10- No trade effluent generation.
 - Engineering and Fabrication – 43 -No trade effluent generation
- Magnesium sulphate manufacturing industry is a predominant unit in Mettur SIDCO industrial Estate. The mother liquor from the process is completely reused in their process and hence no trade effluent generation.

1.8 Status of installation and operational status of Online Continuous Effluent Monitoring Systems and Online Continuous Emission Monitoring Systems (OCEMS):

Table-2 List of Industries with OCEMS

| Sl.No | Name and address of Unit | Stack Emission | | Effluent Quality Monitoring | | Remarks if any |
|-----------------------------------|--|-------------------------------------|---|-------------------------------------|---|--|
| | | Parameters required to be connected | Actual parameters connected to Care Air Centre of TNPCB | Parameters required to be connected | Actual parameter connected to Water Quality Watch Centre of TNPCB | |
| 17 Category Industries | | | | | | |
| 1 | M/s. Chemplast Sanmar Limited, Plant –III, Chlor Alkali, S.F.NO.16/2A, 18,21/1 Verakkalpudur village, Mettur Taluk, Salem District | Cl2, HCL | HCL & Chlorine | pH, TSS | Combined ZLD system with IP Camera | 1. VOC in ambient Air (2 locations) - as per TNPCB requirement. 2. IP Camera for monitoring of ZLD status & Flow meters readings. |
| 2 | M/s.Chemplast Sanmar Ltd, Coal Power Palnt , Raman Nagar, Veerakkalpudur Village,Mettur Taluk, Salem District. | PM, SO2 ,NOx, Hg | PM, SO2 , NOx | pH, TSS, Temperature | IP Camera for monitoring of ZLD status & Flow meters readings | - |
| 3 | M/s.Mettur Thermal Power Station-I (MTPS-I), Chinnakavur, Mettur Dam, Salem District. | PM, SO2, NOx Hg | SOx, NOx, SPM | pH, TSS, Temperature | pH, TSS, Temperature | - |
| 4 | M/s. Mettur Thermal Power Station – II (MTPS-II), Chinnakavur, Mettur Dam, Salem District. | PM, SO2, NOx, Hg | PM, SO ₂ & NOx | pH, TSS, Temperature | Flow pH TSS & Temperature | - |
| 5 | M/s.Malco Energy Limited, No.4,P.N.Patti Village, Mettur Dam, Mettur Taluk, Salem District. | PM, SO2, NOx, Hg | SOx NOx CO2 SPM | pH, TSS, Temperature | ZLD | Plant operations Suspended from May 2017. |
| Other Red Large Industries | | | | | | |
| 1 | M/s. Chemplast Sanmar Ltd., Plant-I | - | AHF monitors | - | Flow meters with computer recording | - |
| 2 | M/s. Chemplast Sanmar Ltd., Plant-II, Raman Nagar, Veerakkalpudur Village,Mettur Taluk, Salem District. | - | Chlorine,VOC,V CM | - | ZLD system with IP Camera | - |
| 3 | M/s. Cabot Sanmar Limited Plant – V, Raman Nagar, Mettur Dam | - | Chlorine | - | Flow meters | - |

1.9 Main findings and observations:

The Report of analysis of the treated trade effluent samples from the unit of Mettur Thermal Power Plant-I is being regularly collected and reveals that the unit achieves the discharge standards prescribed by the Board (Enclosed in the **Annexure-II**) River water samples are collected from River Cauvery at four locations. Water quality monitoring results for four samples collected from River Cauvery is given in **Table-1** for general parameters and heavy metals.

1.10 Findings on the compliance of the effluent /Sewage discharge norms by the industries.

The Report of analysis of the treated trade effluent samples collected from the MTPS-I and MTPS-II reveals that the unit achieves the inland surface water standards prescribed by the Board.

1.11 General observations and recommendations of the inspection team:

During inspection it was noticed that partially treated trade effluent is discharged into the River from M/s. Mettur Thermal Power Plant I. Domestic sewage is being discharged into the River from Mettur Municipality.

It is recommended that the Mettur Municipality shall operate the STP for Treatment of sewage.

- i. Drain/ Odai carrying wastewater are flowing in the nearby area of the STP are in the banks of River Cauvery. Therefore, it is suggested to explore the possibilities of diverting the untreated wastewater flowing through the drain/odai/ river to STPs for treatment rather than waiting for the completion of UGD systems.
- ii. Sewage generation was estimated based on the water supply, population and per capita waste water generation. Other potential sources of sewage have not been considered. For the scientific management of sewage each and every sewage outfall has to be quantified and the generation has to be counterchecked with the river flow downstream to the last discharge point.

- iii. It is observed that the river flow is being disturbed by indiscriminate dumping solid waste, vegetation, and possible encroachment of river bed. To ensure the regular sustainable flow in the river, periodic cleaning and preventive checks has to be done by the concerned departments.
- iv. The Mettur Municipality shall operate 3Nos. of the STPs.
- v. Inside the Municipal area, open drains are used to convey sewage and all drains are invariably choked with domestic solid waste. Solid waste accumulated in the open drains shall be removed periodically.
- vi. The units of Mettur Thermal Power Station –I and Mettur Thermal Power Station –II shall provide a full fledged ETP system and they shall avoid any effluent discharge from the Ash dyke.

1.12 Recommendations- Action plan for the River stretch:

The Cauvery River receives municipal sewage from the Mettur Municipality at the downstream of the river

Proposed Short Term and Long Term Action Plan for Rejuvenation of River Cauvery – Salem District:

| Sl. No | Description of Source | Action Plan for Rejuvenation of River Cauvery | Organisation/ Agency Responsible for Execution of the Action Plan | Time Target |
|--------|------------------------------------|---|---|-------------|
| 1. | Industrial Pollution Control | No industrial discharge | TNPCB | - |
| 2. | Sewage Treatment and Disposal plan | Salem District ❖ Mettur Municipality <ul style="list-style-type: none"> • No. of sewage outfall identified: 11 Locations • Population: 55200 | Municipal Administration | |

| | | | | |
|--|--|--|-------------------------------|----------|
| | | <ul style="list-style-type: none"> • Qty of Sewage generated: 5.96 MLD • Status of UGSS: Provided • Status of STP: 3 Nos of STP Provided with capacity 7.20 MLD • Present mode of Disposal: Under Ground Sewerage scheme work is completed at an estimated cost of Rs.73.09 crore with 3 numbers of STPs of total capacity 7.20 MLD and is functioning. • Plan of Action: • As on date, out of 15000 connections, 7274 number of houses service connections were effected and the remaining connections will be effected before August 2019. • After the completion of this scheme work, Outfalls in the River Cauvery will be stopped permanently. | | Aug-2019 |
| | | <p>❖ Poollampatty Town Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: 5 locations • Population: 10047 • Qty of Sewage generated: 0.162 MLD • Status of UGSS: Not Provided • Status of STP: Not Provided • Present Mode of Sewage | Directorate of Town Panchayat | |

| | | | | |
|---|--|---|--------------------------|-----------|
| | | <p>Disposal:</p> <ul style="list-style-type: none"> • Sullage water let out in to private Agriculture land. • Plan of Action: <p>Detailed project report have been prepared at an estimated cost of Rs 50.00 Lakhs for treatment and disposal of sullage water by Reed Bed Filter Technology by IUDM 2019-2020 fund.</p> | | June-2020 |
| 3 | Solid Waste Management and Disposal Plan | <p>❖ Salem District</p> <ul style="list-style-type: none"> • Mettur Municipality • No. of MSW dumping points identified: 1 location • Population: 55200 • Households: 12501 • Qty of MSW Generated: <p>Wet waste: 9 TPD Dry waste: 6 TPD Total: 15 TPD MSW Collection – 87% MSW Segregation – 52% Present Treatment Method:</p> <p>Wet waste:</p> <ul style="list-style-type: none"> • On – Site Composting – 3 locations – 0.5 TPD (Completed and put to use). • Bio Methanation– 1 no. of 5TPD (Completed and put to Use)- Gas Used for Internal Lighting in compost yard. <p>Dry waste:</p> <ul style="list-style-type: none"> • Saleable waste of 4 TPD sold | Municipal Administration | |

| | | | | |
|--|--|--|-------------------------------|-----------|
| | | <p>out to the identified vendors & registers are being maintained.</p> <ul style="list-style-type: none"> • The Non saleable Non Biodegradable waste of 1.50 TPD is stored in the RRC at KombaranKaadu. • Inert & Silt -0.50TPD Stored along with C&D waste. Used for Filling Low Lying Areas. <p>Proposed Plan of Action:</p> <ul style="list-style-type: none"> • Wet Waste: ✓ Micro Composting Plant – 3Nos. of 9TPD (Will be completed before June 2019). | | June-2019 |
| | | <p>❖ Poollampatty Town Panchayat</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: Nil • Population:10047 • Qty of MSW Generated: 1.52 TPD • Source Collection & Segregation – Yes • Treatment method: • De-centralised Windrow composting method. <p>Present mode of disposal :</p> <ul style="list-style-type: none"> • Out of 15 wards, 6 wards are rural in nature. Many of the households are doing home composting | Directorate of Town Panchayat | |

| | | | | |
|---|--|---|------------------------------------|---|
| | | <ul style="list-style-type: none"> • Wet Waste of 1.10 TPD are processed by Windrow Composting (De-Centralised) • Dry Waste – 0.40 TPD • Recyclable waste (plastic, metal, rubber etc., 0.300 TPD sold out to the identified vendors. • The Non Recyclable waste of 0.10 TPD periodically disposed. • Inerts & Silt 0.02 TPD used in Filling Low Lying Areas. <p>Proposed Plan of Action: Nil</p> <p>Solid waste facility provided. Collection, segregation, treatment, disposal are under implementation in accordance with Municipal Solid Waste management Rules 2016.</p> | | - |
| 4 | Ground Water Quality | Generally the ground water quality satisfies the prescribed standards. | State Ground Water Authority, CGWB | - |
| 5 | Environmental Flow (E-flow) and Irrigation Practices | <ul style="list-style-type: none"> • Mettur dam is opened for irrigation from June 12th to January 28th based on availability of water. It is opened for drinking purpose in the remaining days. During the monsoon period at flood time the maximum flood discharge in the river has been 284606 cusecs on 08.07.1961. | PWD-WRD and Irrigation Department | - |

| | | | | |
|---|------------------------|--|----------------------------------|---|
| | | <ul style="list-style-type: none"> An extent of 1711258 Acres of land under the jurisdiction of Water Resource Department, Trichy Region is irrigated by River Cauvery. For good irrigation practices to conserve the water, water is supplied to the crops by adopting turn system and on rotational basis. Further awareness has been created among the farmers regarding minimum utilization of water by adopting drip and sprinkler irrigation system and also alternative crops in consultation with the Agriculture and Horticulture Departments. | | |
| 6 | Flood Plain Zone (FPZ) | <ul style="list-style-type: none"> Action will be taken up for eviction of encroachments after identification and demarcation of FPZ with the help of Revenue Department. There is Agricultural Encroachment all along the River Cauvery by the farmers with plantations like Banana, Sugarcane, Turmeric and other cash crops in the Flood Plain Zone (FPZ). Plantation and Biodiversity parks will be formed after demarcation of FPZ and | PWD-WRD, Forest Department | - |

| | | | | |
|---|------------------------------------|--|--------------------------------|---|
| | | removal of encroachments with the help of Revenue Department. | | |
| 7 | Encroachments along the river bank | <ul style="list-style-type: none"> • Encroachments in 7 places (0.35.5 Ha) in Sankari Taluk, Salem District on the left bank of River Cauvery – Reach 27KM to 38KM. • There is Agricultural Encroachment all along the River Cauvery by the farmers with plantations like Banana, Sugarcane, Turmeric and other cash crops in the Flood Plain Zone (FPZ). • Action taken: As per eviction Encroachment Act, 2007 after obtaining form from the Revenue Department necessary action is being taken to remove the encroachments. | PWD-WRD and Revenue Department | - |

1.13 List of non-complying industries details

Nil

1.14 Conclusion:

River Cauvery is categorised as polluted River stretch-I. The report of analysis of the sample collected at the Mettur sewage outlet reveals that the D.O is less in that area. This implies that the River gets polluted due to sewage discharge only.

The quality of River water can be improved with the following measures:

- ✓ Mettur Municipality shall complete and operate the Sewage Treatment Plants within the time frame as per the action plan and shall ensure that the entire sewage generated from the local body is treated and disposed off scientifically.
- ✓ Poollampatty Town panchayat shall provide treatment system within the time frame as per the action plan and shall ensure that the entire sullage generated from the local body is treated and disposed off scientifically.
- ✓ Mettur Municipality shall complete the establishment of the solid waste treatment facility within the time frame and shall ensure that the entire solid waste generated from the local body area including solid waste dumped along the River Bank is treated and disposed off scientifically.
- ✓ TNPCB shall ensure that no industrial effluent is discharged in the River at any point of time.

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2. ERODE DISTRICT

2.0 Polluted River Stretch identified in River Cauvery at Erode District

The Polluted River Stretch identified under jurisdiction of O/o.DEE, TNPCB, Erode from R.N.Pudur to Erode Corporation.

| Sl. No | Description | Details furnished |
|--------|---|---|
| 1 | River flow pattern including tributaries, drains etc., shall be plotted. Plotted image shall be marked with area names, drain points, industries details, sample points, solid waste dumping details, STPs details etc., Upstream and Downstream flow of river shall be marked. | Map enclosed in Fig-1 & 2 Annexure – 1 & 1a. |
| 2 | Entry and exit point of the river stretch (area name) in each jurisdiction and its final confluence point. | Entry point – Kalingarayanpalayam Village Exit point – Chittapullanpalayam Village Final confluence point – Noyyal River |
| 3 | City, town and village names along the river stretch shall be marked in the plotted river stretch image. | Map enclosed in Fig-2 Annexure – 1a |
| 4 | Details of total water consumption, sewage generation, and drainage and disposal system followed in the local bodies along the polluted river stretches, STP details and its disposal, ROA of the STP and also details about solid waste management followed in the local | Erode City Municipal Corporation having 60 wards generates 35 MLD – 40MLD of sewage which is being disposed into River Cauvery/Kalingarayan Canal without treatment. About 5MLD of untreated sewage alone disposed into Kalingarayan |

| | | |
|---|---|---|
| | <p>bodies. Current status, proposal, future proposal regarding Underground drainage system, STP, Municipal solid waste management in their area/local body along the polluted river stretches.</p> | <p>Canal through Konavaikkal drain.</p> <p>Underground drainage system within the 60 wards of Erode City Municipal Corporation is under progress and the STP (50.55 MLD capacity plant) is ready for commissioning in Vendipalayam Village.</p> <p>Erode City Municipal corporation generates about 250 MT/day of Municipal Solid Waste, in which about 110 T/day is processed (composting) at Vendipalayam compost yard. The remaining Municipal solid wastes (about 140 T/day) are dumped in the Vendipalayam dump yard and on the right bank of River Cauvery at Vairapalayam Village.</p> |
| 5 | <p>Industrial details – under operation or Closed & vacated or Not in operation. Industry details along the polluted river stretches – type, category, water consumption, consent status, effluent/ sewage generation, treatment system, final disposal, samples collected, ROA, complying with the standard norms or not, action taken, Solid waste generation and its disposal including hazardous and non-hazardous wastes, authorization details.</p> | <p>There are no 17 category types of industries in existence in the vicinity of polluted river stretch.</p> <p>468 numbers of consented textile bleaching & dyeing units and 37 consented tannery units which are located in the vicinity of the polluted river stretch have provided IETP's on their own so as to achieve zero discharge. The total water consumption of the above said units is 43.706 MLD and trade effluent generation is 39.73 MLD.</p> <p>The total sewage generation from the above units is 3.254 MLD and all the units have provided septic tank</p> |

| | | |
|---|---|---|
| | | <p>followed by Soak pit/Dispersion trench on their premises to dispose the sewage.</p> <p>The hazardous wastes (ETP sludge) generated from the textile bleaching & dyeing and tannery units are being disposed either to CHWTSDF, Gummidipoondi for secure landfill or to cements industries for co-processing with the concurrence of the Board.</p> <p>The hazardous wastes (ATFD mixed salts/SEP's salt residue) generated from the textile dyeing and tannery units are being collected and stored within their premises and TNPCB is taking steps to dispose the same scientifically.</p> <p>The non-hazardous wastes generated from the above units are being collected and disposed through Erode Corporation.</p> |
| 6 | Online continuous effluent monitoring system (OCEMS) provided Industries list and its operation status. | As there is no 17 category type of industries functioning in the identified polluted river stretch, no OCEMS is provided. |
| 7 | Real time photos with caption. | Enclosed in the consecutive pages. |

2.1 Teams constituted for sample collection by the AELs, and DELs by TNPCB:

Tamil Nadu Pollution Control Board (TNPCB) has constituted 6 Teams to carry out Sample collections for the polluted river stretches, vide Memo No. TNPCB/DD (L)/F.No.6849/2016 dated 29.12.2018.

Drain samples collected details with live photograph:

| Sl. No. | Point of collection | GPS coordinates | | Date of sample collection |
|---------|--|-----------------|---------------|---------------------------|
| 1 | D/s Bhavani & Kumarapalayam Town discharges into River Cauvery | 11°25'7.0"N | 77°40'50.67"E | 03/01/2019 |
| 2 | D/s Nochipallam Odai discharges into the River Cauvery | 11°24'59.31"N | 77°40'58.14"E | 03/01/2019 |
| 3 | D/s Sunnambu Odai discharges into the River Cauvery | 11°23'28.45"N | 77°42'17.24"E | 03/01/2019 |
| 4 | D/s Pichaikaran Pallam discharges into the River Cauvery | 11°22'9.76"N | 77°43'42.51"E | 03/01/2019 |
| 5 | D/s Perumpallam discharges into the River Cauvery | 11°19'52.50"N | 77°45'27.80"E | 03/01/2019 |

2.1a Real time sample collection photographs



Entry Point of River Cauvery and River Bhavani into the Jurisdiction of O/oDEE, TNPCB, Erode at Bhavani Kooduthurai



Exit Point of River Cauvery and River Bhavani into the Jurisdiction of O/oDEE, TNPCB, Erode at Kodumudi



Samples collected at NTDCL pumping station at U/S of Erode in Cauvery River(11°25'7.0"N, 77°40'50.67"E)



Samples collected at D/S of confluence point of Notchipallam Odai in Cauvery River(11°24'59.31"N, 77°40'58.14"E)



Samples collected at D/S of confluence point of Sunnambu Odai in Cauvery River(11°23'28.45"N, 77°42'17.24"E)



Samples collected at D/S of confluence point of Pitchaikaranpallam Odai in Cauvery River(11°22'9.76"N, 77°43'42.51"E)



Samples collected at Vendipalayam Barrage at D/S of confluence point of Perumpallam Odai in Cauvery River (11°19'52.50"N, 77°45'27.80"E)



**Samples collected at Kalingarayan canal at D/S of confluence point of
Konavaikkal at Vendipalayam (11°19'37.95"N, 77°45'9.49"E)
2.3 Status of water quality in the study area:**

Five Numbers of drain samples discharged into River Cauvery were collected by the Inspection team. Drain samples collected from afore-said location were analysed in TNPCB laboratory.

Table -3 Analysis results of the samples collected from 5 No.of drains contributing to pollution load in River Cauvery :

| Sl. No | Sam ple No. | Point of collection | pH | TDS mg/l | COD mg/l | BOD mg/l | Cu mg/l | Zn mg/l | Pb mg/l | Cd mg/l | Ni mg/l | Fe mg/l | T.Cr mg/l | Status of compliance with respect to WQC limit |
|---|-------------|----------------------------------|------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|--------------|--|
| | | Unit | | | | | | | | | | | | |
| 1 | E-1 | D/s Bhavani & Kumarapalayam Town | 8.04 | 242 | 16 | 2 | 0.1596 | 0.1643 | <0.015 | <0.0008 | <0.006 | 0.18 | <0.05 | Complied |
| 2 | E-2 | D/s Nochipallam Odai | 8.08 | 224 | 16 | 2 | 0.1721 | 0.1840 | <0.015 | <0.0008 | <0.006 | 0.35 | <0.05 | Complied |
| 3 | E-3 | D/s Sunnambu Odai | 8.07 | 230 | 8 | <2.0 | 0.0862 | 0.1459 | <0.015 | <0.0008 | 0.014 | 0.31 | <0.05 | Complied |
| 4 | E-4 | D/s Pichaikaran Pallam | 8.09 | 242 | 16 | 2 | 0.0462 | 0.0659 | <0.015 | <0.0008 | 0.034 | <0.05 | <0.05 | Complied |
| 5 | E-5 | D/s Perumpallam | 7.85 | 236 | 16 | 2 | 0.2005 | 0.1459 | <0.015 | <0.0008 | 0.021 | <0.05 | <0.05 | Complied |
| Effluent discharge norms for inland surface water as per schedule-VI of E(P) Rules 1986 in mg/l except pH | | | 5.5 to 9.0 | - | 250 | 30 | 3.0 | 5.0 | 0.1 | 2.0 | 3.0 | 3.0 | 2.0 | |

2.4. Findings on the compliance of the drains discharge into river

The Report of analysis of the samples collected from the drains revealstoachieve the inland surface water standards prescribed by the Board.

2.5 General observations

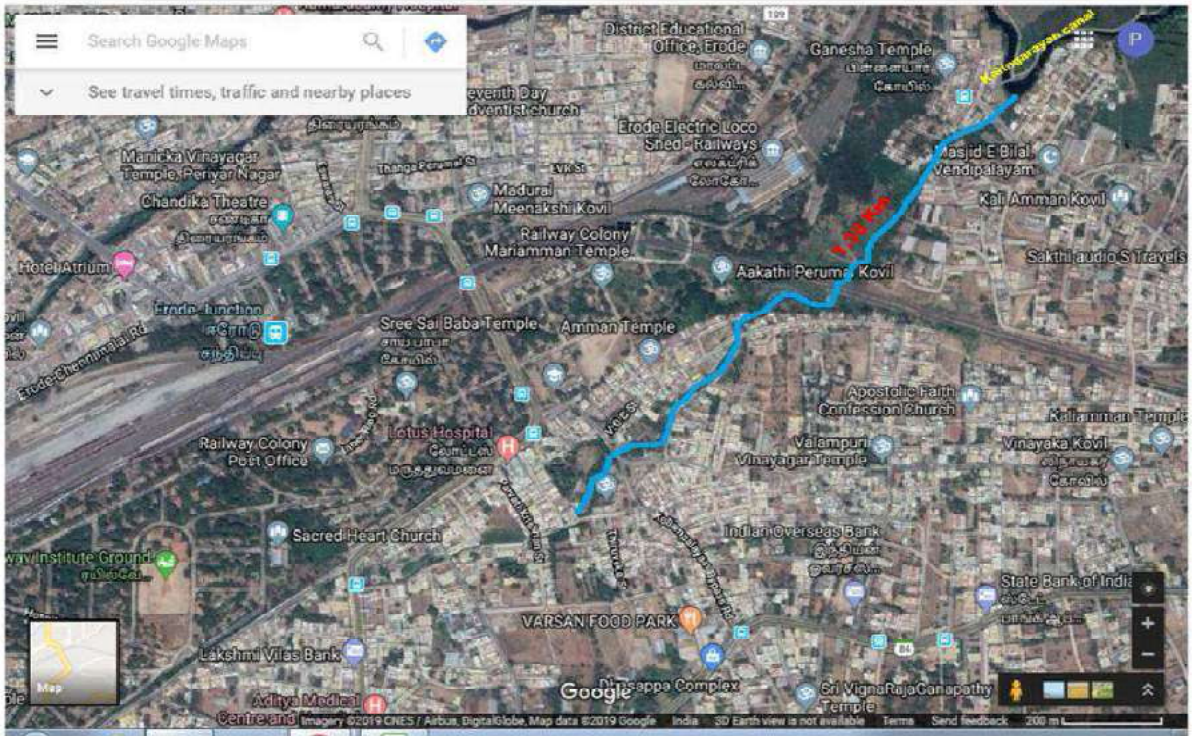
a) Sewage Disposal:

About 5MLD of untreated sewage generated from few wards of Erode City Municipal Corporation is being directly disposed into Kalingarayan Canal through Kona Vaikkal (Marked in Map enclosed in Fig-1 Annexure-I).

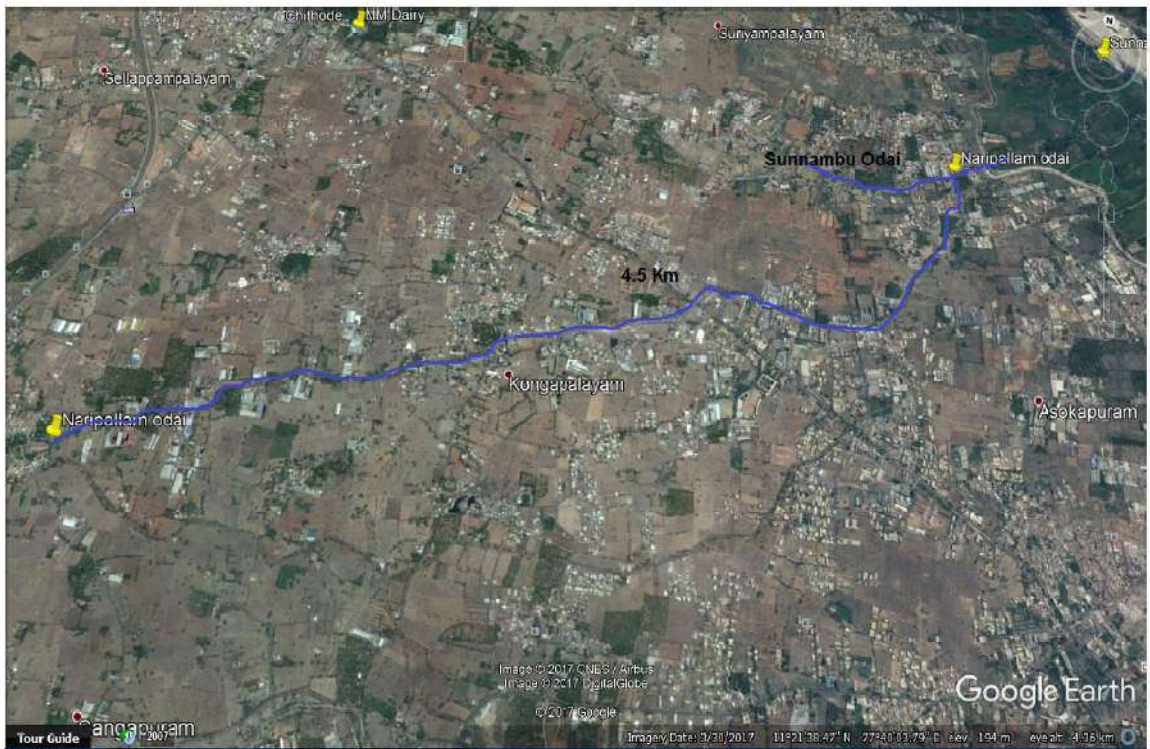
Cauvery River stretch in Erode District

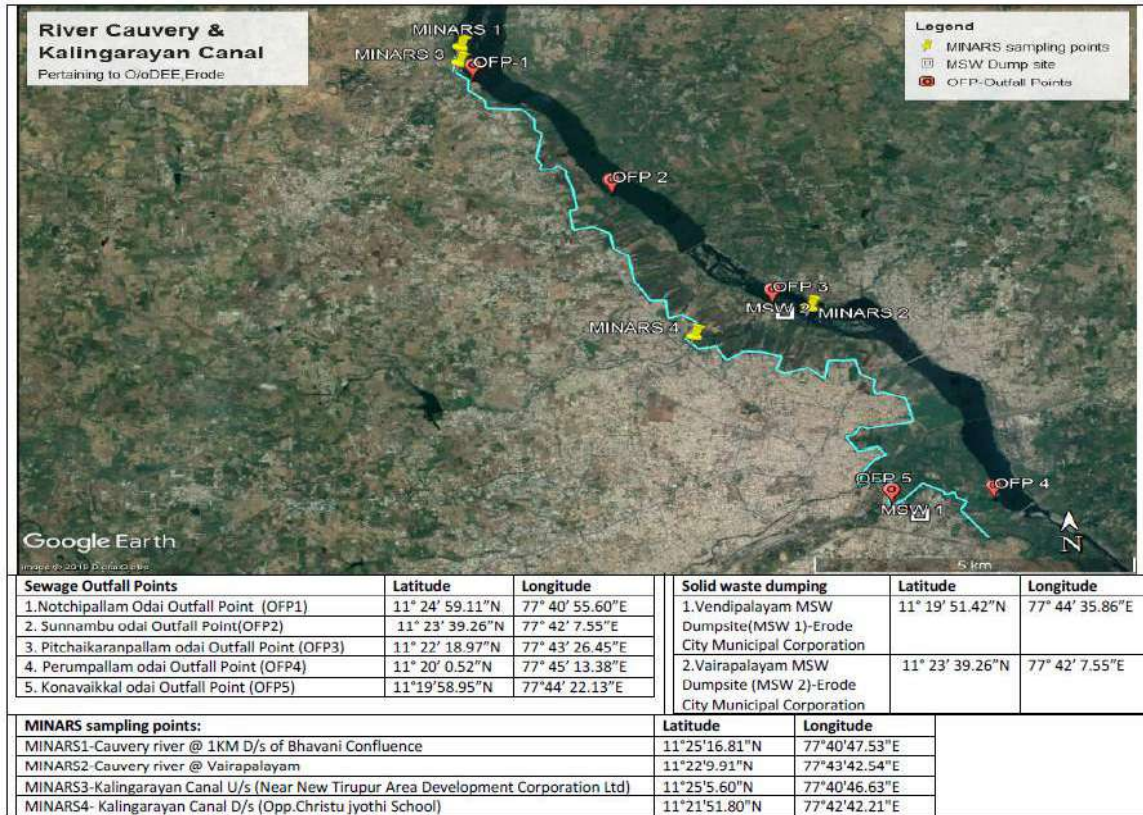
- River Cauvery - R.N Pudur - Erode Corporation – 17 km
- Sewage outfall points – 4 nos.
 1. Notchipallam Odai - 11° 24' 59.11"N, 77° 40' 55.60"E
 2. Sunnambu Odai - 11° 23' 39.26"N, 77° 42' 7.55"E
 3. Pitthaikaranpallam Odai - 11° 22' 18.97"N, 77° 43' 26.45"E
 4. Perumpallam Odai - 11° 20' 0.52"N, 77° 45' 13.38"E
- Waste is being dumped on the right bank/ within River Cauvery at Vairapalayam Village. The leachate generated from the MSW dump site at Vendipalayam dump yard finally reaches the Kalingarayan Canal through natural drains in absence of facilities for collection and treatment of leachate.
- The GPS Co-ordinates of the solid waste facilities are given below.
 1. Vendipalayam - 11° 19' 51.42"N, 77° 44' 35.86"E
 2. Vairapalayam - 11° 22' 13.30"N, 77° 43' 31.78"E
- No unauthorized textile dyeing, bleaching and tannery industries are located in the vicinity of the identified polluted river stretch

MAP SHOWING LOCATION OF KONAVAIKKAL AND ITS CONFLUENCE TO KALINGARAYAN CANAL



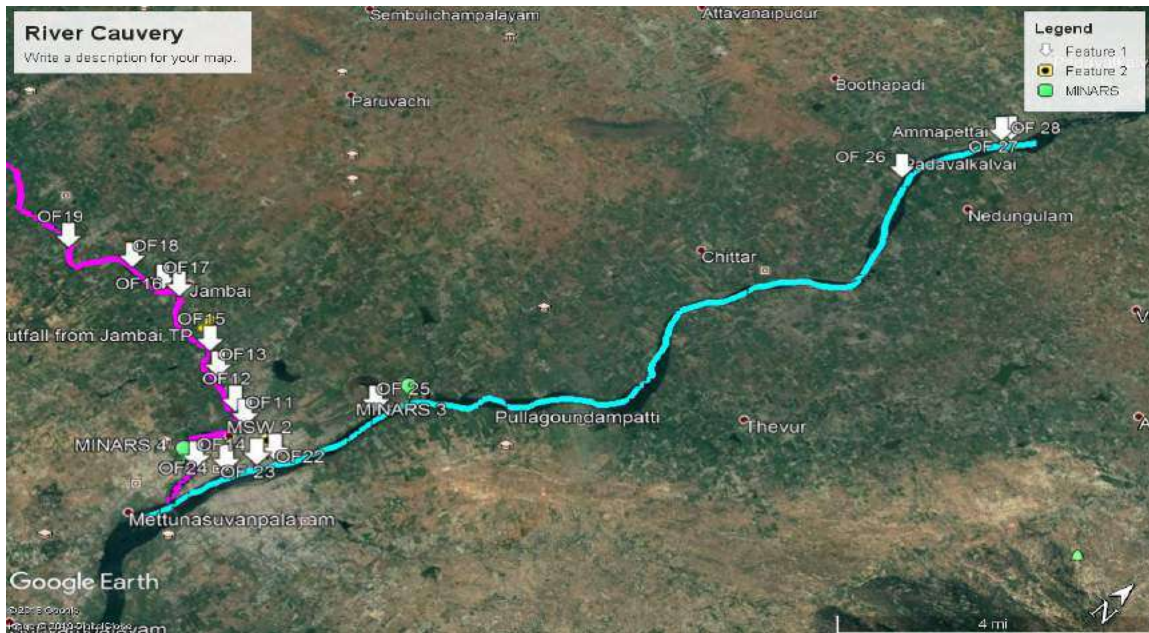
MAP SHOWING LOCATION OF NARIPALLAM ODAI AND ITS CONFLUENCE TO SUNNAMBU ODAI





River Cauvery – Sewage out-fall points and Solid Waste Dumping Location

River Cauvery – Map Showing the Sewage Out-fall Points and Solid Waste Dumping Locations



Confluence point of Notchipallam Odai with Cauvery River



Confluence point of Sunnambu Odai with Cauvery River



Confluence point of Pitchaikaranpallam Odai with Cauvery River




Confluence point of Perumpallam Odai with Cauvery River



River Cauvery – Photographs Showing the Sewage Out-fall Points

| Sl. No. | Description | Details |
|---------|---|--|
| 1. | Sewage outfall points in the River with GPS co-ordinates. | <p>The sewage generated from the most of the wards (About 21MLD as reported by the Erode Corporation) of Erode City Municipal Corporation is being discharged into River Cauvery (within polluted River stretch) through Odais such as Notchipallam odai, Sunnambu Odai, Pitchaikaranpallam Odai and Perumpallam odai. The GPS co-ordinates at point of discharge into River Cauvery is given below.</p> <p>Notchipallam Odai - 11° 24' 59.11"N - 77° 40' 55.60"E</p> <p>Sunnambu Odai - 11° 23' 39.26"N - 77° 42' 7.55"E</p> |

| | | |
|----|--|---|
| | | <p>Pitchaikaranpallam Odai - 11° 22' 18.97"N - 77° 43' 26.45"E</p> <p>Perumpallam Odai - 11° 20' 0.52"N - 77° 45' 13.38"E</p> <p>About 2 MLD of untreated sewage generated from few wards of Erode City Municipal Corporation is being directly discharged into Kalingarayan Canal through Kona Vaikkal.</p> <p>Co-ordinates of Konavaikkal confluence point into Kalingarayan canal. - 11°19'58.95"N - 77°44' 22.13"E</p> |
| 2. | Photographs taken at the outfall points into River Cauvery. | |
| |  <p data-bbox="548 1444 1260 1476">Confluence point of Notchipallam Odai with Cauvery River</p> | |



Confluence point of Sunnambu Odai with Cauvery River



Sunnambu Odai before confluence



Confluence point of Pitchaikaranpallam Odai with Cauvery River





Confluence point of Perumpallam Odai with Cauvery River

Photographs taken at the outfall point into Kalingarayan Canal.



Confluence point of Kona Vaikkal with Kalingarayan Canal

| | |
|----|--|
| 3. | Photographs taken in the sampling points with Latitude and Longitude |
| |  |
| | <p>Sampling point at NTADCL pumping station at U/s of Erode in Cauvery River (No. 1) (11°25'7.0"N, 77°40'50.67"E) (MINARS sampling location No.1- Upstream)</p> |
| |  |
| | <p>Sampling point at D/s of confluence point of Notchipallam Odai in Cauvery River (No.2) (11°24'59.31"N, 77°40'58.14"E)</p> |



Sampling point at D/s of confluence point of Sunnambu Odai in Cauvery River (No.3)
(11°23'28.45"N, 77°42'17.24"E)



Sampling point at D/s of confluence point of Pitchaikaranpallam Odai in Cauvery River (No.3)
(11°22'9.76"N, 77°43'42.51"E) (MINARS sampling location No.2 – Down stream)


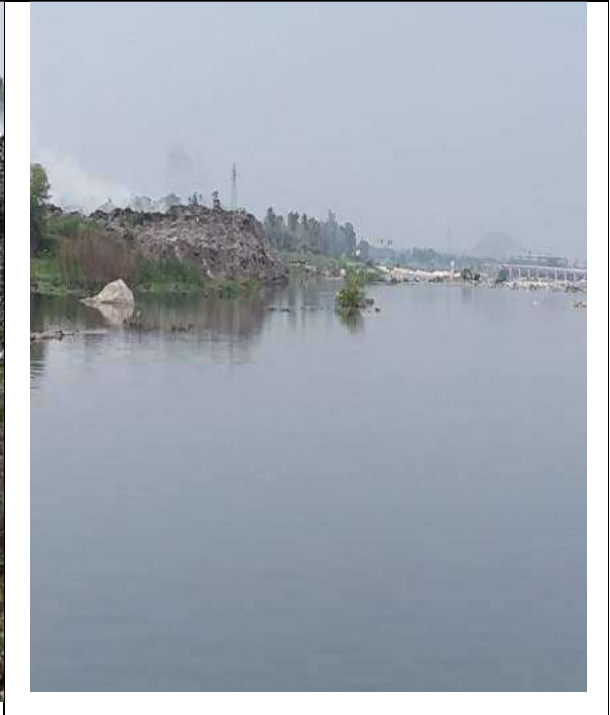


Sampling point at Vendipalayam Barrage at D/s of confluence point of Perumpallam Odai in Cauvery River (No.4)(11°19'52.50"N, 77°45'27.80"E)



Sampling point at Kalingarayan canal at D/s of confluence point of Konavaikkal at Vendipalayam (No.5) (11°19'37.95"N, 77°45'9.49"E)

| | | |
|----|---|---|
| 4. | Dumping of solid waste into the River or on the banks of the River with Latitude and Longitude including photographs. | Erode City Municipal Corporation having 60 wards generates 250 T/day of Municipal Solid Waste, in which 100 T/day is processed in compost yard at Vendipalayam Village (which |
|----|---|---|

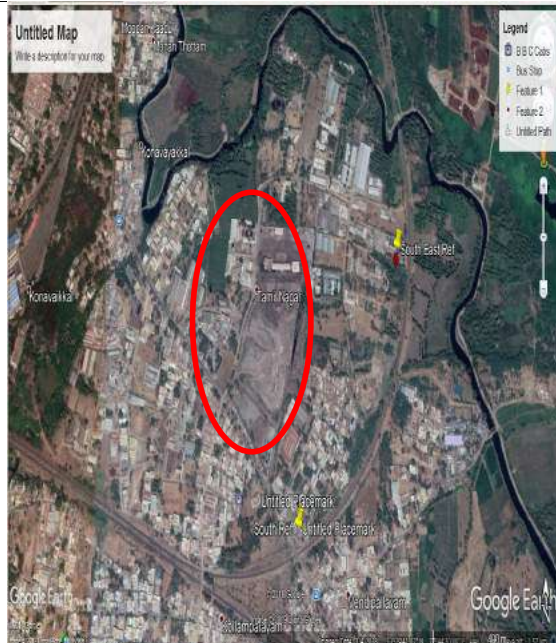
| | | |
|--|--|--|
| | | <p>is not in operation for the past three months). The remaining waste is being dumped on the right bank/ within River Cauvery at Vairapalayam Village. The leachate generated from the MSW dump site at Vendipalayam dump yard finally reaches the Kalingarayan Canal through natural drains in absence of facilities for collection and treatment of leachate.</p> <p>The GPS Co-ordinates of the solid waste facilities are given below.</p> <ol style="list-style-type: none"> 1. Vendipalayam - 11° 19' 51.42"N - 77° 44' 35.86"E 2. Vairapalayam - 11° 22' 13.30"N - 77° 43' 31.78"E |
| |  |  |
| | <p>MSW dumped on bank/within River Cauvery</p> | |



Leachate mixing with River water





Dumping of MSW



Aerial view of MSW dump site at Vendipalayam



Dumped waste in the Vendipalayam yard

| | | |
|-----------|---|---|
| |  |  |
| | <p>MSW dump site at Vendipalayam</p> | <p>Leachate reaching nearby drainage from MSW dump site which ultimately reaches Kalingarayan Canal</p> |
| <p>5.</p> | <p>Details of consent/ Authorization issued by the Board for the establishment of STP/ solid waste facility.</p> | <ul style="list-style-type: none"> • The Erode City Municipal Corporation has obtained CTE for establishment of STP vide Proceeding No. T7/TNPCB/ F.2166/RL/W&A/2013 dated: 18.02.2013 for 50.55 MLD capacity (forecasted quantity). Subsequently, CTE – Extension was issued vide Proceeding No. F.0571EDL/ RL/ DEE/ TNPCB/ EDL/ W&A/ 2016 Dated: 13.01.2016. • The Erode City Municipal Corporation has obtained Authorisation at Vendipalayam for handling of MSW quantity of 100T/day as against the total generation of 250T/day which is not functioning. |
| <p>6.</p> | <p>Status of the ground reality of the STPs and Waste processing facilities provided by the local body for handling sewage and solid waste.</p> | <ul style="list-style-type: none"> • The Erode City Municipal Corporation has completed the establishment of STP and ready for commissioning. The part of UGDSS works have to be completed |

so as to collect the entire sewage generated from Erode Corporation area.

- At present, the Erode City Municipal Corporation has installed new 50 T/day capacity Green Incinerator plant with necessary Air Pollution Control measures at Vairapalayam MSW dump site, Erode. The system is being operated under trial run for disposal of mixed municipal solid waste generated within the Erode Corporation area.
- The Corporation has now applied for authorization for 19 proposed micro composting centres (MCC) for 12 wards i.e. decentralised facilities for managing MSW generated.



View of the STP established at Vendipalayam by Erode City Municipal Corporation

- The Erode City Municipal Corporation

has obtained Authorisation for the solid waste facility at Vendipalayam to handle the capacity of 100T/day as against the total generation of 250 T/day. The facility was operated by IL&FS Ltd., which is not in operation for the past 3 months. So the MSW generated within the corporation are being dumped at Vendipalayam dump site and on the bank of River Cauvery at Vairapalayam without any processing.

- The Corporation has now applied for authorization for 19 proposed micro composting centres (MCC) for 12 wards i.e. decentralised facilities for managing MSW generated.



Green incinerator (50 T/day) at Vairapalayam MSW dump site which is under trial run

7. Comments on each location of outfall points.

In all four outfall points, the untreated sewage generated from the Erode Corporation are being discharged into River Cauvery and from one outfall point the sewage is being discharged into Kalingarayan canal.

b) Municipal Solid Waste Disposal:

Erode City Municipal Corporation having 60 wards generates 250 T/day of Municipal Solid Waste, in which 110 T/day is processed in compost yard at Vendipalayam Village. The remaining waste is being dumped partly on the right bank of River Cauvery at Vairapalayam Village and rest is dumped at Vendipalayam dump yard in the vicinity of the identified polluted river stretch which results generation of leachate, finally reaches the Kalingarayan Canal through natural drains.

MSW dumped on bank/within River Cauvery



Leachate mixing with River water



River Cauvery – Photographs Showing the Solid Waste Dumping Location

c) Industrial Effluent Disposal:

No unauthorized textile dyeing, bleaching and tannery industries are located in the vicinity of the identified polluted river stretch. However, illegal discharge from the consented bleaching, dyeing and tannery units those who have provided ZLDS found during night hours into Kalingarayan Canal for which action such as disconnection of power supply, sealing etc., are being taken through the District Co-ordination Committee (DCC) functioning under the Chairmanship of District Collector, Erode.

Industrial details:

INDUSTRY DETAILS ALONG THE POLLUTED RIVER STRETCH

River Name: River Cauvery

Stretch: Mettur to Mayiladulhurai Stretch (R.N.Pudur – Erode Corporation)

| SL. No. | Taluk Name | Total No. of Industries along the polluted river stretch | | | Total No. of Industries generating Trade effluent (Nos) | Total Qty. of Trade effluent generated (KLD) | ETP status (ETP/CETP) (Nos) | | Treated trade effluent final disposal status | OCEMS Connected (Water quality watch) (Nos) |
|---------|------------|--|------------|-------------|---|--|-----------------------------|--------------|---|---|
| | | Type | Category | Total (Nos) | | | Provided | Not provided | | |
| | Erode | | | | | | | | ZLD/Recycled/reused in the Process/On land for irrigation or gardening/Disposed into inland water bodies – partially/fully & name of the water body | |
| 1. | | 1040-Textile Processing (Dyeing, Bleaching) | RL, RM, RS | 468 | 468 | 47848.995 | 468 | - | ZLD | 6 (EMFM's alone) |
| 2. | | 1045-Tanneries | RS | 37 | 37 | 1876.595 | 37 | - | ZLD | 0 |

2.6 Recommendations

1. Erode City Municipal Corporation shall expedite the completion of UGDSS in all 60 wards and commission the STP provided at Vendipalayam Village early to stop the discharge of untreated sewage into Kalingarayan Canal through Kona Vaikkal.

In this regard, directions shall be issued to the Director, Municipal Administration, Chennai/Commissioner, Erode Corporation to complete and commission the UGDSS followed by STP within the time schedule.

2. Erode City Municipal Corporation shall furnish time bound schedule for the early completion of proper collection, segregation and processing of MSW generated in all 60 wards.

In this regard, directions shall be issued to the Director, Municipal Administration, Chennai/Commissioner, Erode Corporation to comply with the Solid Waste Management Rules, 2016 within the time schedule.

2.7 Industrial effluent status:

In the jurisdiction of O/o, DEE, TNPCB, Erode, there are 297 bleaching units, 171 dyeing units and 37 tannery units are functioning with individual effluent treatment plants in their premises and reuse their treated trade effluent and achieving zero discharge. The illegal discharge of trade effluent from adjoining industries directly into Kalingarayan Canal during night hours were noticed and immediate actions such as disconnection of power supply, sealing etc., are being taken through the District Co-ordination Committee (DCC) functioning under the Chairmanship of District Collector, Erode. The unauthorized bleaching/dyeing units are being demolished immediately through DCC, Erode. At present, no unauthorized dyeing, bleaching and tannery units are located within the jurisdiction of O/o DEE, Erode. In order to curtail the illegal discharge of untreated trade effluent into the nearby odaisand also to facilitate better monitoring, establishment of CETP is predominant and hence proposals for the establishment of 7 CETPs in Erode covering 468 small scale textile bleaching & dyeing units and 37 small scale tanneries have been submitted to the Board vide this office letter dated 27.11.2017. Based on that, a preliminary meeting was conducted at TNPCB, Chennai on 19.04.2018 along with the industry Associations under the Chairmanship of the Member Secretary. Subsequently, requests were submitted to the Board to conduct high level meeting for formation of CETPs vide this office letters dated 23.05.2018 & 28.06.2018.

In this regard, directions shall be issued to the functioning 468 bleaching and dyeing units, 37 tannery units including following respective associations to formulate CETP's and expedite the completion and commissioning of the same within the time schedule so as to curtail illegal discharge of untreated/partially treated trade effluent into the Kalingarayan Canal and also facilitate better monitoring by the TNPCB.

2.8 Recommendations – Action plan for the river stretch:

Proposed Short Term and Long Term Action Plan for Rejuvenation of River Cauvery – Erode District:

| Sl. No. | Description of Source | Action Plan for Rejuvenation of River Sarabanga | Organisation/ Agency Responsible for Execution of the Action Plan | Time Target |
|---------|------------------------------------|---|---|-------------|
| 1. | Industrial Pollution Control | No industrial discharge | TNPCB | - |
| 2. | Sewage Treatment and Disposal plan | <p>❖ Erode Corporation:</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: 4 Locations • Population: 547933 • Qty of Sewage generated: 44.59 MLD • Status of UGSS: Under Construction • Status of STP: 50.55 MLD - STP under construction • Present mode of Disposal: The blackwater is collected in septic tanks by individual households. • Plan of Action: • Under Ground Sewerage scheme work was taken up and is under implementation at an estimated cost of Rs.209.22 crore with a STP capacity of 50.55 MLD and it will be completed by December 2019. | Municipal Administration | Dec-2019 |

| | | | | |
|--|--|---|--------------------------|----------|
| | | <ul style="list-style-type: none"> • As on date, out of 72500 connections, 7274 number of house service connections were effected and the remaining connections will be effected before December 2019. • After the completion of this scheme work, Outfalls in the River Cauvery will be stopped permanently. | | Dec-2019 |
| | | <p>❖ Bhavani Municipality</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: Nil • Population: 40270 • Qty of Sewage generated: 3.36 MLD • Status of UGSS: Not Provided • Status of STP: Not Provided • Present mode of Disposal: The blackwater is collected in septic tanks by individual households. • Plan of Action: <ul style="list-style-type: none"> • In order to treat the black water, it is proposed to cluster with Erode STP and co-treated. • To handle the sullage water discharged through 6 nos. of major channels which confluence with the river stretch, it is proposed to | Municipal Administration | Oct-2019 |

| | | | | |
|----|--|--|--------------------------|---------------------------------------|
| | | <p>provide in-situ treatment methodology by providing Screen, Grit followed by Horizontal planted gravel filter.</p> <ul style="list-style-type: none"> The ULB has prepared detailed estimate for establishing liquid waste treatment facility at a cost of Rs. 37.00 lakhs. This fund is proposed to be tied up with Infrastructure gap filling fund 2019-20 and is expected to be completed by October 2019. | | Oct-2019 |
| 3. | Solid Waste Management and Disposal Plan | <p>❖ Erode Corporation</p> <ul style="list-style-type: none"> No. of MSW dumping points identified: 2 Locations Population: 547933 Qty of MSW Generated: Wet waste: 85 TPD Dry waste: 85 TPD Total: 170 TPD MSW Collection – 87% MSW Segregation – 49% Present Treatment Method: Wet waste: - 85 TPD On – Site Composting – 25 locations – 5 TPD (Completed and put to use) Bio Methanation– 1 nos. of 10 TPD (functioning) | Municipal Administration | 100% will be achieved before 30.06.19 |

| | | | | |
|--|--|---|--|-----------------|
| | | <p>Dry waste: - 85 TPD</p> <ul style="list-style-type: none"> • Saleable waste (Plastic, Metal & Rubber) of 35 TPD sold out to the identified vendors & registers are being maintained. • The Non saleable Non Biodegradable waste of 20 TPD is stored in the earmarked location at Vendipalayam. • Inert & Silt - 20 TPD Stored along with C&D waste. Used in Filling Low Lying Areas. <p>Proposed Plan of Action:</p> <p>Wet-waste:</p> <ol style="list-style-type: none"> 1. Micro Composting Plant – 19 Nos. of 50 TPD (Will be completed before Aug 2019 and 5 Nos of 20 TPD will be completed by Oct 2019.) <p>Dry waste:</p> <ul style="list-style-type: none"> • The Non saleable Non Biodegradable waste of 20 TPD is stored in the earmarked location at Vendipalayam. • It is proposed to supply 30 TPD of dry waste to Incinerator for Combustible. All ready Available Incinerator - 1 nos -5 TPD. | | <p>Oct-2019</p> |
|--|--|---|--|-----------------|

| | | | | |
|--|--|---|--------------------------|---------------------------------------|
| | | <ul style="list-style-type: none"> • Bio-mining of Vairapalayam Dump yard on the banks of River Cauvery-work will be commenced in May 2019 & completed in March 2020- Funding under SMART CITY. | | March-2020 |
| | | <ul style="list-style-type: none"> ❖ Bhavani Municipality • No. of MSW dumping points identified: Nil • Population: 40270 • Qty of MSW Generated: Wet waste: 9 TPD Dry waste: 6 TPD Total: 15 TPD MSW Collection – 95% MSW Segregation – 80% Present Treatment Method: Wet waste: - 9 TPD • Micro Composting Plant – 2 Nos. of 10 TPD (Completed and functioning) Dry waste: - 6 TPD • Saleable waste of 3.5TPD sold out to the identified vendors & registers are being maintained. • The Non saleable Non Biodegradable waste of 1.50 TPD is stored in the RRC at Varnapuram & Periodically disposed to Ultra Tech cement. | Municipal Administration | 100% will be achieved before 30.06.19 |

| | | | | |
|----|--|---|------------------------------------|---|
| | | <ul style="list-style-type: none"> Inert & Silt- 1TPD Stored along with C&D waste. Used for Filling Low Lying Areas <p>Proposed Plan of Action:Nil</p> <p>MSW Treatment Facility provided.</p> | | |
| 4. | Ground Water Quality | Generally the ground water quality satisfies the prescribed standards. | State Ground Water Authority, CGWB | - |
| 5. | Environmental Flow (E-flow) and Irrigation Practices | <ul style="list-style-type: none"> Mettur dam is opened for irrigation from June 12th to January 28th based on availability of water. It is opened for drinking purpose in the remaining days. During the monsoon period at flood time the maximum flood discharge in the river has been 284606 cusecs on 08.07.1961. An extent of 1711258 Acres of land under the jurisdiction of Water Resource Department, Trichy Region is irrigated by River Cauvery. For good irrigation practices to conserve the water, water is supplied to the crops by adopting turn system and on rotational basis. Further awareness has been created among the farmers regarding minimum utilization of water | PWD-WRD and Irrigation Department | - |

| | | | | |
|----|------------------------------------|--|--------------------------------|---|
| | | by adopting drip and sprinkler irrigation system and also alternative crops in consultation with the Agriculture and Horticulture Departments. | | |
| 6. | Flood Plain Zone (FPZ) | <ul style="list-style-type: none"> • Action will be taken up for eviction of encroachments after identification and demarcation of FPZ with the help of Revenue Department. • There is Agricultural Encroachment all along the River Cauvery by the farmers with plantations like Banana, Sugarcane, Turmeric and other cash crops in the Flood Plain Zone (FPZ). • Plantation and Biodiversity parks will be formed after demarcation of FPZ and removal of encroachments with the help of Revenue Department. | PWD-WRD, Forest Department | - |
| 7. | Encroachments along the river bank | <ul style="list-style-type: none"> • Encroachments: • Erode District • Taluk - Bhavani • Reach in KM from Right bank 20 KM to 40 KM • No. of Encroachment: 168 • Extent (in Ha) – 7.26.70 • Action taken: As per eviction Encroachment | PWD-WRD and Revenue Department | - |

| | | | | |
|--|--|---|--|--|
| | | <p>Act, 2007 after obtaining form from the Revenue Department necessary action is being taken to remove the encroachments.</p> <ul style="list-style-type: none"> • Erode District • Taluk - Erode • Reach in KM from Right bank 40 KM to 56 KM • No. of Encroachment: 25 • Extent (in Ha) – 1.20.0 • Action taken: <p>As per eviction Encroachment Act, 2007 after obtaining form from the Revenue Department necessary action is being taken to remove the encroachments.</p> | | |
|--|--|---|--|--|

2.9 Conclusion:

- Erode City Municipal Corporation has completed the establishment of sewage treatment plant and the same was kept ideal for past one year, whereas the UGDSS works have to be completed so as to commission the STP.
- Hence, the Erode City Municipal Corporation shall expedite the completion of UGDSS in all 60 wards and commission the STP provided at Vendipalayam Village early so as to stop the discharge of untreated sewage into River Cauvery through Odais and into Kalingarayan Canal through Kona Vaikkal.
- MSW generated from Erode Corporation area are partially being dumped on the right bank/within River Cauvery. Erode City Municipal Corporation shall immediately stop dumping of MSW on Cauvery River bank at

Vairapalayam and furnish time bound schedule for the early completion of proper collection, segregation and processing of MSW generated in all 60 wards through micro composting centers (decentralized facilities) so as to stop dumping of municipal solid wastes on the right bank of River Cauvery at Vairapalayam.

The quality of River water in the above stretch can be improved with the following measures:

- ✓ Erode Corporation shall complete the establishment of UGDSS and shall operate the Sewage Treatment Plant within the time frame as per the action plan and shall ensure that the entire sewage generated from the local body along with the sewage from Bhavani and Pallipalayam Municipalities are treated and disposed off scientifically.
- ✓ Bhavani Municipality shall provide treatment system within the time frame as per the action plan and shall ensure that the entire sullage generated from the local body is treated and disposed off scientifically.
- ✓ Erode Corporation shall complete the establishment of the solid waste treatment facility within the time frame and shall ensure that the entire solid waste generated from the local body area including solid waste dumped along the River Bank is treated and disposed off scientifically.
- ✓ TNPCB shall ensure that no industrial effluent is discharged in the River at any point of time.

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3.0 Namakkal District (Kumarapalayam):

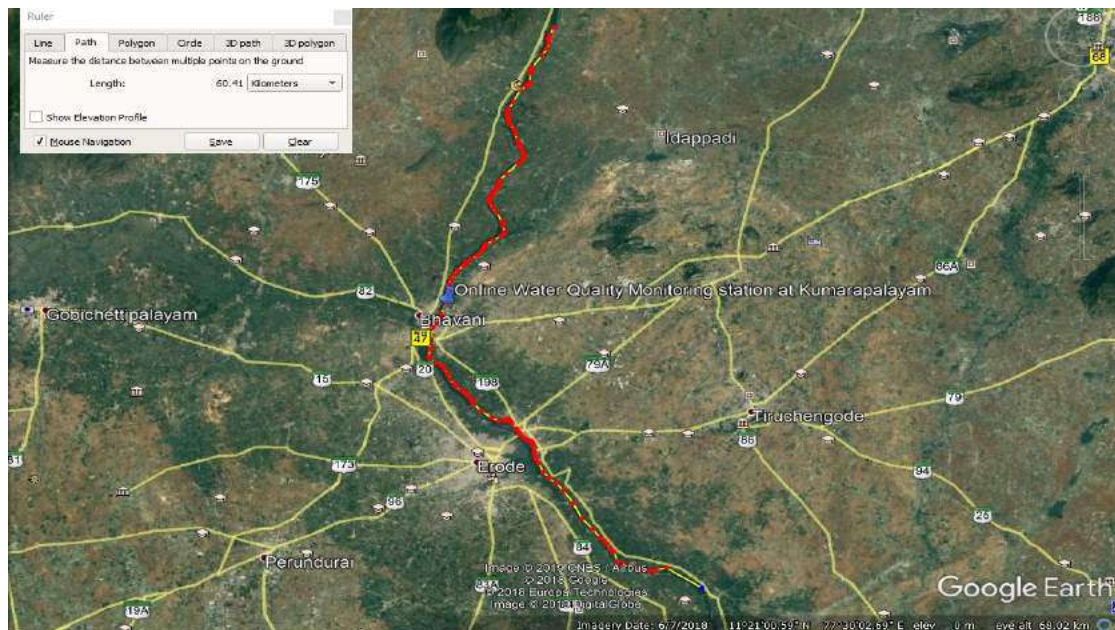
3.1 Kumarapalayam

3.1.1 Introduction about the River Cauvery

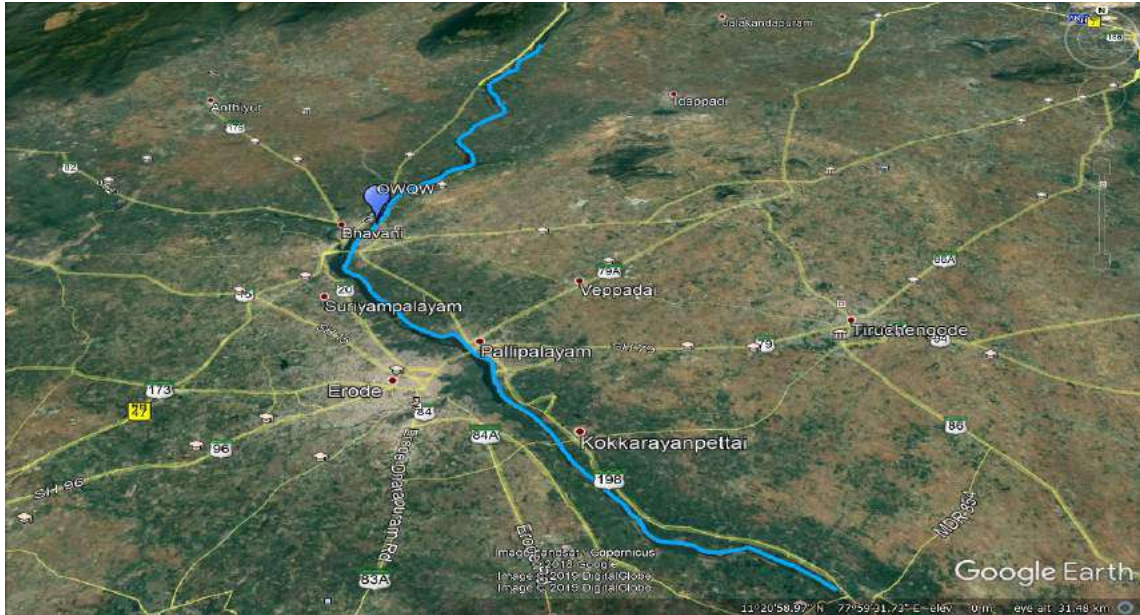
River Cauvery originates in the Brahmagiri hills in Kodagu, in a place called Talakaveri (head of Kaveri). The river is approximately 760 km long. It flows in the state of Karnataka and Tamil Nadu and merges into Bay of Bengal.

The total length of River Cauvery in the office of District Environmental Engineer, Tamil Nadu Pollution Control Board, Kumarapalayam Jurisdiction is **60.4 KM** from Poolampatti Village of Edapadi taluk, Salem District to Molasi Village of Thiruchengode Taluk, Namakkal District.

In Namakkal District, River Cauvery enters at Poolampatti village of Edapadi Taluk, Salem District and flows through Poolampatti Town panchayat of Edapadi Taluk, Salem District and Kalvadangam Village, Thevur Town Panchayat, Pullagounampatti Village of Sankagiri Taluk, Salem District. Also, enters at Kumarapalayam of Kumarapalayam Taluk, Namakkal District and flows through Kumarapalayam Municipality, Seerampalayam Village, Avathipalayam Village, Pallipalayam Municipality, Kokkarayanpettai Village panchayat of Kumarapalayam Taluk, Namakkal District and Pattlur Village, Molasi Village of Thiruchengode Taluk, Namakkal District.



Map showing the River Cauvery Flow



Map showing the River Cauvery Flow

3.1.2 Source of pollution in the River Stretch

i) Domestic Pollution

All the Sewage generated from Poolampatti Town panchayat of Edapadi Taluk, Salem District, Kalvadangam, Thevur Town Panchayat, Pullagoundampatti Village of Sankagiri Taluk, Salem District discharged through drains and reaches Cauvery River.

Domestic sewage enters River Cauvery at Kumarapalayam of Kumarapalayam Taluk, Namakkal District and flows through Kumarapalayam Municipality, Seerampalayam Village, Avathipalayam Village, Pallipalayam Municipality, Kokkarayanpettai Village panchayat of Kumarapalayam Taluk, Namakkal District and Pattlur Village, Molasi Village of Tiruchengode Taluk, Namakkal District discharged through drains and reaches Cauvery River.

All the Sewage generated from the above said Local Bodies are discharged through drains and reaches Cauvery River since there are no treatment systems provided. However, in Kumarapalayam Sewage Treatment Plant is located (Latitude: 11026'06"N, Longitude: 77041'15"E) Manimekalai Street, Kumarapalayam, Namakkal District and has obtained CTO vide Board Proc. dated.08/11/2005 valid upto 31/03/2006 for 6 MLD capacity but not in operation since 2005 as shown in the Photograph.



Major towns located on the bank between the stretch including population, water consumption, Sewage generation details:

| Sl.No. | Name of the Town | Population | Water Consumption | Quantity of sewage Generation |
|--------|------------------|------------|-------------------|-------------------------------|
| 1. | Poolampatti | 9477 | 1.2 MLD | 0.96 MLD |
| 2. | Kumarapalayam | 71594 | 9.6 MLD | 7.68 MLD |
| 3. | Pallipalayam | 40140 | 5.4 MLD | 4.32 MLD |
| 4. | Kokkarayenpettai | 5907 | 0.79 MLD | 0.632 MLD |
| 5. | Molasi | 3628 | 0.48 MLD | 0.384 MLD |

There are 19 Major outfalls were identified along the River stretch in the Kumarapalayam Jurisdiction (**60.4 KM**) from Poolampatti Town Panchayat, Edapadi Taluk, Salem District to Molasi Village, Thiruchengode Taluk, Namakkal District.

ii) Industrial Pollution

• **Highly Polluting (17 Category) Industries:**

1. M/s. Seshasayee Paper and Board Limited – Odapalli Agraharam Village, Kumarapalayam Taluk, Namakkal District is a 17 Category industry and is in operation. The unit has provided effluent treatment plant for the treatment

of trade effluent generated from their process and treated trade effluent is utilized for on land for irrigation/gardening purposes.

2. M/s. Ponni sugars Erode Limited – Sugar Division, Odapalli Agraharam Village, Kumarpalayam Taluk, Namakkal District is under operation. The unit has provided effluent treatment plant for the treatment of trade effluent generated from their process and treated trade effluent is utilized for on land for irrigation/gardening purposes.

Dyeing Industry:

In Kumarapalayam Taluk, there are 135 numbers of Dyeing and Bleaching Industries are in operation. All these dyeing and bleaching industries have provided individual effluent treatment plant with Zero Liquid Discharge System.

There are no major industries discharging effluent directly into the River Cauvery.

List of industry enclosed in Annexure – I.

3.1.3 Inspection Team Details:

Inspection Team was formed for the purpose of Sample Collection and Analysis for the Polluted River Stretches:

River Cauvery -Mettur to Mayiladuthurai Stretch (200 Kms) – Priority – I (Dharmapuri, Salem, Namakkal, Kumarapalayam, Erode, Karur, Trichy, Thanjavur, Nagapattinam).

Inspection Team Consist of

Thiru.V.Thiyagarajan, Deputy Director, Labs, TNPCB, Chennai.

Tmt.D.Mohanambaigai, Assistant Director, Advanced Environmental Laboratory, TNPCB, Salem.

Thiru. P.Krishnan, Assistant Engineer, O/o DEE, TNPCB, Kumarapalayam.

Thiru. S.Subramani, Deputy Chief Scientific Officer, Advanced Environmental Laboratory, TNPCB, Vellore.

Thiru.K. Rajaraman, Environmental Scientist, Advanced Environmental Laboratory, TNPCB, Cuddalore.

3.1.4 District/Area wise details of industries and No. of industrial Effluent/sewagesamples collected by the inspection team:

In Kumarapalayam stretch, River Cauvery enters at Poolampatti Village, Edapadi Taluk, Salem District and the River Samples & Sewage samples were collected across the River Cauvery Stretches starting from

1. Poolampatti (Cauvery River down Stream)
2. Cauvery River @ Kalvadangam
3. Kumarapalayam (down Stream), near Bridge
4. Seerapalayam, near Pumping Station
5. Avathipalayam, near pumping station
6. Pallipalayam (Downstream), near barrage.
7. Kokkarayanpettai sewage drain, near bridge
8. Kokkarayanpettai (Downstream), new bridge

3.1.5 Ground water, River water & Drain Samples Collected details along the River Stretch:

| Sl. No. | Sampling Points | Latitude | Longitude | Date of collection |
|---------|---------------------------------|-----------|-----------|--------------------|
| 1 | Poolampatti | 11.656093 | 77.76366 | 02.01.2019 |
| 2 | Kalvadangam | 11.559275 | 77.739512 | 04.01.2019 |
| 3 | Kumarapalayam | 11.357693 | 77.724284 | 03.01.2019 |
| 4 | Seerapalayam | 11.375267 | 77.703534 | 03.01.2019 |
| 5 | Avathipalayam | 11.36179 | 77.746455 | 03.01.2019 |
| 6 | Pallipalayam | 11.195654 | 77.53789 | 03.01.2019 |
| 7 | Kokkarayanpettai - sewage drain | 11.315711 | 77.77956 | 03.01.2019 |
| 8 | Kokkarayanpettai | 11.35711 | 77.77956 | 03.01.2019 |

3.1.5a Sample Collection Photographs along the River Stretch



River Cauvery – Poolampatti(Down Stream)



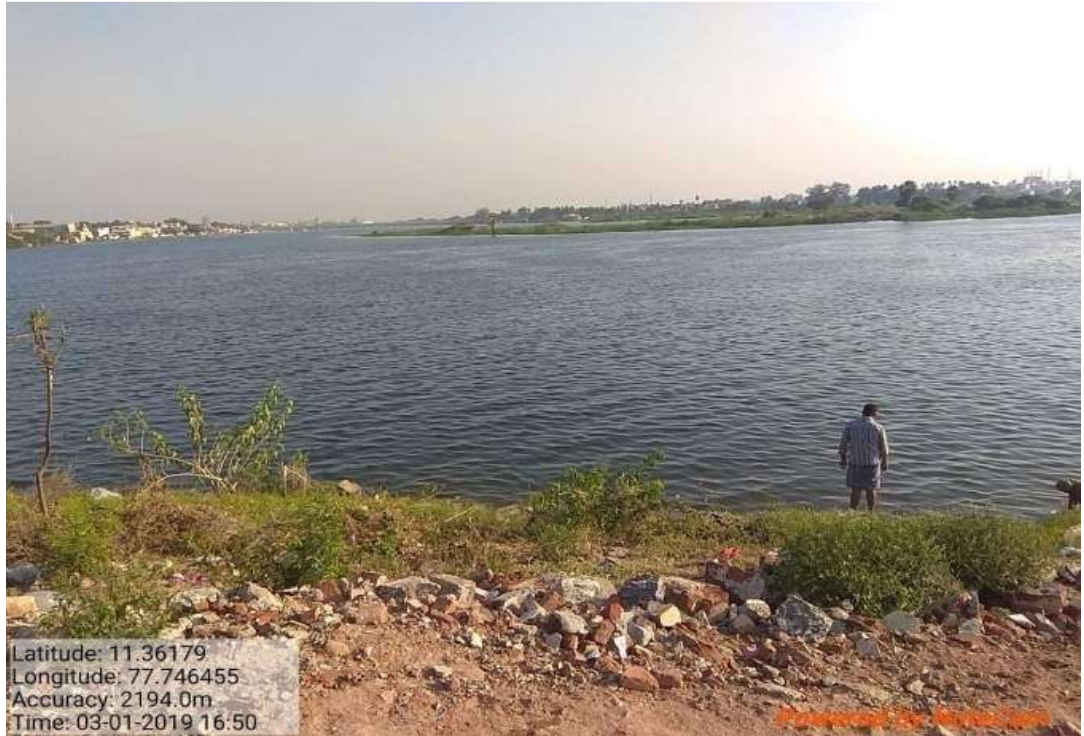
River Cauvery – Kalvadangam



River Cauvery – Kumarapalayam, near Bridge



River Cauvery – Seerapalayam near Pumping Station



River Cauvery – Avathipalayamnear Pumping Station



River Cauvery – Pallipalayam near Barrage



River Cauvery – Kokkarayanpettai, Near Bridge



Kokkarayanpettai (Sewage Drain), near bridge

3.1.6 Status of water quality of River and drains in the study area: (Cauvery River and Drains of Kumarapalayam, Namakkal District)

Report of Analysis.

| Sl. No | Sample No. | Point of collection | DO | Faecal Coliform | BOD | Cu | Zn | Pb | Cd | Ni | Mn | Fe | T.Cr | Status of compliance with respect to WQC limit |
|--|------------|-----------------------------------|----------|-----------------------|----------|-------------|-------------|------------|-------------|------------|------|-----------|-----------|--|
| | | Unit | mg/l | MPN/100MI | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 1 | 1725 | Poolampatti | 8.5 | 21 | <2 | <0.001 5 | <0.001 5 | <0.0 15 | <0.0 008 | <0.0 06 | <0.1 | <0.0 5 | <0.0 5 | Complied |
| 2 | 1795 | Kalvadagam | 6.8 | 38 | <2 | <0.001 5 | <0.001 5 | <0.0 15 | <0.0 008 | 0.02 2 | <0.1 | <0.0 5 | <0.0 5 | Complied |
| 3 | 1755 | Kumarapalayam | 5.8 | 140 | 2.8 | <0.001 5 | <0.001 5 | <0.0 15 | <0.0 008 | 0.18 9 | <0.1 | 0.14 9 | <0.0 5 | Complied |
| 4 | 1754 | Seerapalayam | 8.9 | 110 | <2 | <0.001 5 | <0.001 5 | <0.0 15 | <0.0 008 | 0.12 2 | <0.1 | 0.13 0 | <0.0 5 | Complied |
| 5 | 1753 | Avathipalayam | 8.4 | 27 | <2 | <0.001 5 | <0.001 5 | <0.0 15 | <0.0 008 | 0.13 5 | <0.1 | 0.11 2 | <0.0 5 | Complied |
| 6 | 1752 | Pallipalayam | 7.8 | 220 | <2 | <0.001 5 | <0.001 5 | <0.0 15 | <0.0 008 | 0.14 2 | <0.1 | 0.08 4 | <0.0 5 | Complied |
| 7 | 1750 | Kokkarayanpettai | - | 540 x 10 ¹ | 123 | <0.001 5 | <0.001 5 | <0.0 15 | <0.0 008 | 0.14 8 | <0.1 | 0.12 1 | <0.0 5 | Not complied |
| 8 | 1751 | River Cauvery at Kokkarayanpettai | 8.7 | 110 | <2 | <0.001 5 | <0.001 5 | <0.0 15 | <0.0 008 | 0.15 1 | <0.1 | 0.07 4 | <0.0 5 | Complied |
| Water quality criteria (WQC) limit for Bathing | | | ≥ 5 mg/l | ≤ 500 MPN/100 ml | ≤ 3 mg/l | - | - | - | - | - | - | - | - | - |

3.1.7 Assessment of compliance to the effluents/sewage discharge norms by the industries in the study area.

During inspection of above said River Cauvery Stretch, there is no industrial effluent discharges were noticed in the River Cauvery from Poolampatti, Kalvadagam, Kumarapalayam, Seerampalayam, Avathipalayam, Pallipalayam, Kokkarayanpet & Molasi Village and the sewage drains were reaching River Cauvery.

All the dyeing units have provided individual ETP for the treatment of trade effluent generated from their process and the treated trade effluent is recycled into their process and the rejects are sent to ATFD/SEP for further evaporations to achieve Zero Liquid Discharge System.

The trade effluents generated from the paper mill and sugar mills are treated in the individual ETP and the treated water is utilized on land for irrigation.

3.1.8 Operational Status of industries type & category wise, Consent details and Hazardous waste authorisation status

I. District / Area Wise Details of industries

| Sl. No. | District | Taluk | LARGE | | | MEDIUM | | | SMALL | | | Total |
|--------------------|----------|---------------|----------|----------|----------|----------|----------|----------|------------|----------|----------|------------|
| | | | Red | Orange | Green | Red | Orange | Green | Red | Orange | Green | |
| 1 | Salem | Edapadi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | Salem | Sankagiri | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | Namakkal | Kumarapalayam | 3 | 0 | 0 | 0 | 0 | 0 | 133 | 0 | 0 | 136 |
| 4 | Namakkal | Thiruchengode | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| ** Total ** | | | 3 | 0 | 0 | 0 | 0 | 0 | 133 | 0 | 2 | 136 |

Out of 139 industries, 121 industries have obtained Consent to Operate (CTO) from the TNPCB under the Water (Prevention and Control of Pollution) Act, 1974 as amended and Air (Prevention and Control of Pollution) Act, 1981 as amended. Remaining, 12 industries have obtained Consent to Establishment from the TNPCB and 6 units are not in operation.

3.1.8a Status of Industry wise water consumption, wastewater generation and final mode of industrial effluent discharge

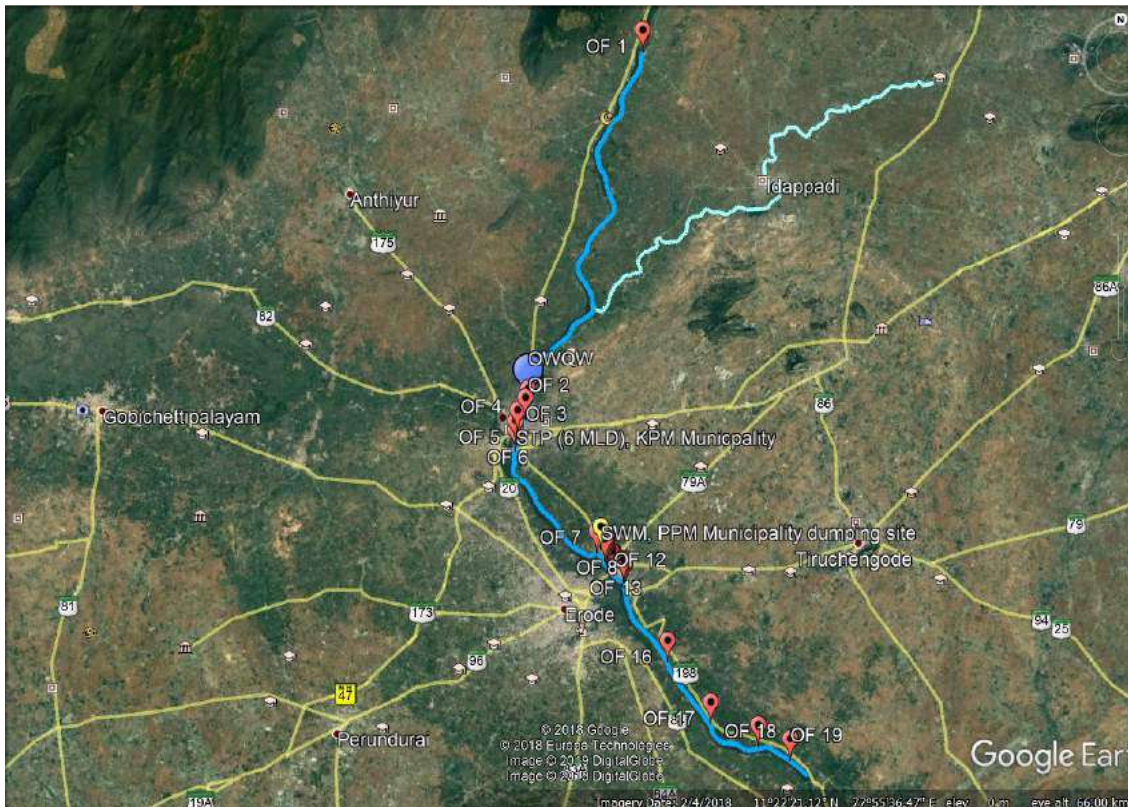
About 45,180.07 KLD water is consumed by 136 industries. Most of the industries completely recycle their waste water back in the process. The Paper mill and Sugar mill trade effluent are treated in the individual ETP and the treated water is utilized on land for irrigation.

All these dyeing and bleaching industries have provided individual effluent treatment plant with Zero Liquid Discharge System.

Major towns located on the bank between the stretch including population, water consumption, Sewage generation details:

| Sl.No. | Name of the Town | Population | Water Consumption | Quantity of sewage Generation |
|--------|------------------|------------|-------------------|-------------------------------|
| 1. | Poolampatti | 9477 | 1.2 MLD | 0.96 MLD |
| 2. | Kumarapalayam | 71594 | 9.6 MLD | 7.68 MLD |
| 3. | Pallipalayam | 40140 | 5.4 MLD | 4.32 MLD |
| 4. | Kokkarayenpettai | 5907 | 0.79 MLD | 0.632 MLD |
| 5. | Molasi | 3628 | 0.48 MLD | 0.384 MLD |

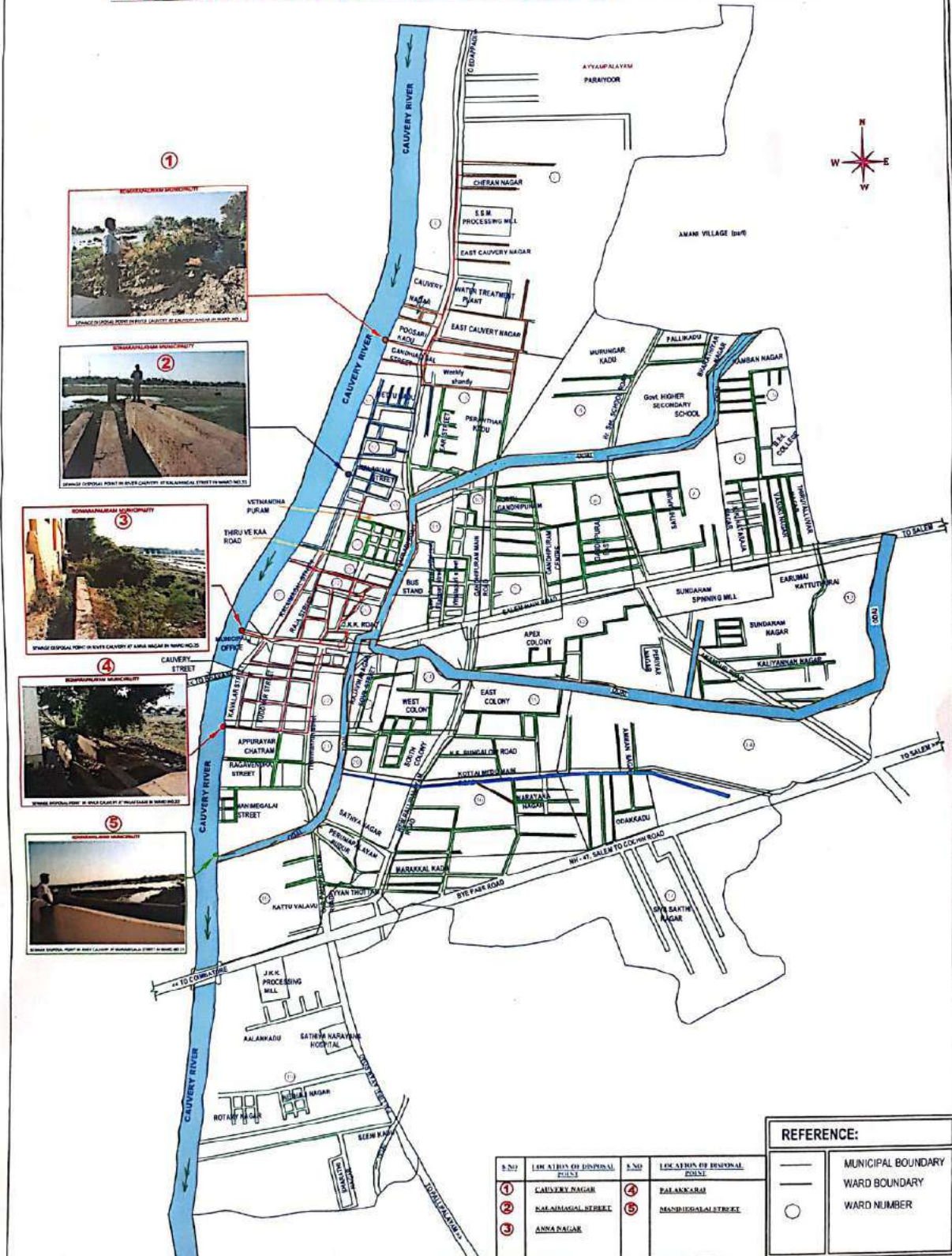
There are 19 Major outfalls were identified along the River stretch (Cauvery River- METTUR TO MAYILADUTHURAI STRETCH” - (200 Kms) PRIORITY – I) in the office of District Environmental Engineer, Tamil Nadu Pollution Control Board, Kumarapalayam Jurisdiction is **60.4 Km** from Poolampatti Town Panchayat, Edapadi Taluk, Salem District to Molasi Village, Thiruchengode Taluk, Namakkal District.



| OutFalls | identified at | Latitude | Longitude |
|-----------------|---|------------------------|------------------------|
| OF 1 | Poolampatti Town Panchayat | 11 ⁰ 39'28" | 77 ⁰ 45'51" |
| OF 2 | near Cauvery Nagar, Kumarapalayam | 11 ⁰ 27'09" | 77 ⁰ 41'43" |
| OF 3 | near Kalaimagal Street in Ward No.31, Kumarapalayam | 11 ⁰ 26'56" | 77 ⁰ 41'37" |
| OF 4 | near Municipality Backside, Kumarapalayam | 11 ⁰ 26'07" | 77 ⁰ 41'16" |
| OF 5 | near Kandhan Rugs, Kumarapalayam | 11 ⁰ 26'08" | 77 ⁰ 41'16" |
| OF 6 | near Kumarapalayam Bridge, Kumarapalayam | 11 ⁰ 25'52" | 77 ⁰ 41'15" |
| OF 7 | near Avathipalayam, Kaliayanur Panchayat | 11 ⁰ 22'22" | 77 ⁰ 44'12" |
| OF 8 | near Oilkarar Street, Pallipalayam Municipality | 11 ⁰ 22'05" | 77 ⁰ 44'29" |
| OF 9 | near PuthanSanthai, Pallipalayam Municipality | 11 ⁰ 22'00" | 77 ⁰ 44'32" |
| OF 10 | near Cauvery Thadam, Pallipalayam Municipality | 11 ⁰ 21'56" | 77 ⁰ 44'35" |
| OF 11 | near Cauvery Bridge, Pallipalayam Municipality | 11 ⁰ 21'40" | 77 ⁰ 44'44" |
| OF 12 | near Avarankadu, Pallipalayam Municipality | 11 ⁰ 21'36" | 77 ⁰ 44'48" |
| OF 13 | near RS Road, Pallipalayam Municipality | 11 ⁰ 21'23" | 77 ⁰ 45'29" |
| OF 14 | near Alampalayam Burial Ground, Pallipalayam Municipality | 11 ⁰ 21'21" | 77 ⁰ 45'11" |
| OF 15 | near Pudhupalayam Village | 11 ⁰ 21'16" | 77 ⁰ 45'13" |
| OF 16 | near Kokkarayanpettai bridge | 11 ⁰ 18'38" | 77 ⁰ 46'45" |
| OF 17 | near Patlur Village | 11 ⁰ 16'32" | 77 ⁰ 48'19" |
| OF 18 | near Irayamangalam Village | 11 ⁰ 15'45" | 77 ⁰ 50'02" |
| OF 19 | near Molasi Village | 11 ⁰ 15'16" | 77 ⁰ 51'11" |
| STP | Kumarapalayam Municipality STP - 6 MLD | 11 ⁰ 26'06" | 77 ⁰ 41'15" |
| Dumping site | Pallipalayam Municipality | 11 ⁰ 22'30" | 77 ⁰ 44'21" |

KOMARAPALAYAM MUNICIPALITY

LOCATION OF WATER SEWAGE DIPOSAI POINTS IN KOMARAPALAYAM TOWN





Outfalls near Slaughter House in Poolampatti Town Panchayat, Edapadi Taluk, Salem District (Map Enclosed - Latitude:11°39'28"N, Longitude:77°45'51"E)



Outfalls near Cauvery Nagar, Kumarapalayam Taluk, Namakkal District (Map Enclosed - Latitude: 11°27'09"N Longitude:77°41'43"E)



Outfalls near Kalaimagal Street in Ward No.31, Kumarapalayam Taluk, Namakkal District (Map Enclosed - Latitude: 11°26'56" N Longitude:77°41'37"E)

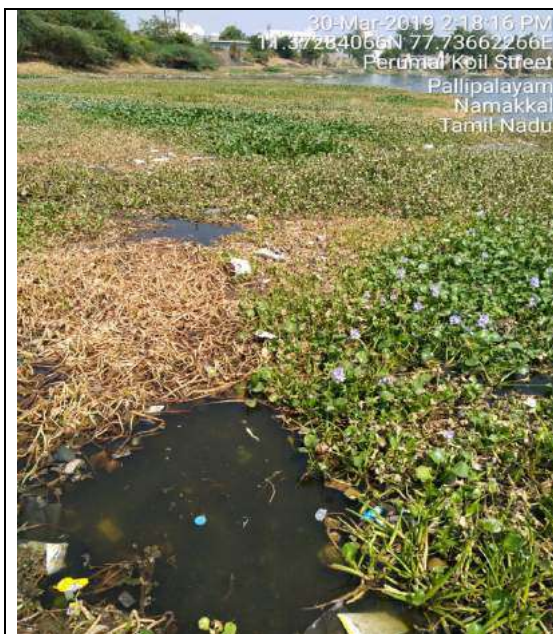


Outfalls near Municipality Backside, Kumarapalayam Taluk, Namakkal District (Map Enclosed - Latitude: 11°26'07"N Longitude:77°41'16" E)



Outfalls nearKandhan Rugs, Kumarapalayam Taluk, Namakkal District (Map Enclosed - Latitude: 11⁰26'08" N Longitude:77⁰41'16" E)

Outfalls near Kumarapalayam Bridge, Kumarapalayam Taluk, Namakkal District (Map Enclosed - Latitude: 11⁰25'52"N Longitude:77⁰41'15" E)



Outfalls near Avathipalayam, Kaliayanur Panchayat, Namakkal District (Map Enclosed - Latitude: 11°22'22" N Longitude: 77°44'12" E)



Outfalls near Oilkarar Street, Pallipalayam Municipality, Namakkal District (Map Enclosed - Latitude: 11°22'05" N Longitude: 77°44'29" E)



Outfalls near Puthan Santhai, Pallipalayam Municipality, Namakkal District (Map Enclosed - Latitude: 11°22'00" N Longitude:77°44'32" E)



Outfalls near Cauvery Thadam, Pallipalayam Municipality, Namakkal District (Map Enclosed - Latitude: 11°21'56" N Longitude:77°44'35" E)



Outfalls near Cauvery Bridge, Pallipalayam Municipality, Namakkal District (Map Enclosed - Latitude: 11°21'40" N Longitude:77°44'44" E)



Outfalls near Avarankadu, Pallipalayam Municipality, Namakkal District (Map Enclosed - Latitude: 11°21'36" N Longitude:77°44'48" E)



Outfalls near RS Road, Pallipalayam Municipality, Namakkal District (Map Enclosed - Latitude: $11^{\circ} 21'23''$ N Longitude: $77^{\circ}45'29''$ E)



Outfalls near Pudhupalayam Village, Alampalayam town panchayat, Kumarapalayam Taluk, Namakkal District (Map Enclosed - Latitude: $11^{\circ}21'16''$ N Longitude: $77^{\circ}45'13''$ E)



Outfalls near Kokkarayanpettai Village, Kumarapalayam Taluk, Namakkal District (Map Enclosed - Latitude: $11^{\circ}18'38''$ N Longitude: $77^{\circ}46'45''$ E)



Outfalls near Patlur Village, Thiruchengode Taluk, Namakkal District (Map Enclosed - Latitude: $11^{\circ}16'32''$ N Longitude: $77^{\circ}48'19''$ E)



Outfalls near Irayamangalam Village, Thiruchengode Taluk, Namakkal District (Map Enclosed - Latitude: 11⁰15'45" N Longitude:77⁰50'02" E)



Outfalls near Molasi Village, Thiruchengode Taluk, Namakkal District (Map Enclosed - Latitude: 11⁰15'16" N Longitude:77⁰51'11" E)

One Number of dumping site(**Latitude: 11⁰22'30" N Longitude: 77⁰44'21" E**)is located along the KaliyanurOdai, Pallipalayam Municipality which is at a distance of 450 meters from the River Cauvery and the facility is carrying out Bio Composting Process in the premises.



The water quality analysed by taking samples (through GEMS and MINARS) by this office regularly and the consolidated reports are annexed for reference

GEMS and MINARS Samples collected in the River Cauvery:

Every month GEMS and MINARS samples are collected along the Cauvery River at the following location of Kumarapalayam, Seerampalayam, Pallipalayam and the samples are sent to the AD (Lab), AEL, TNPCB, Salem for analysis. Also, regular water sample is collected at Avathipalayam out let near Pumping station and the report is enclosed.



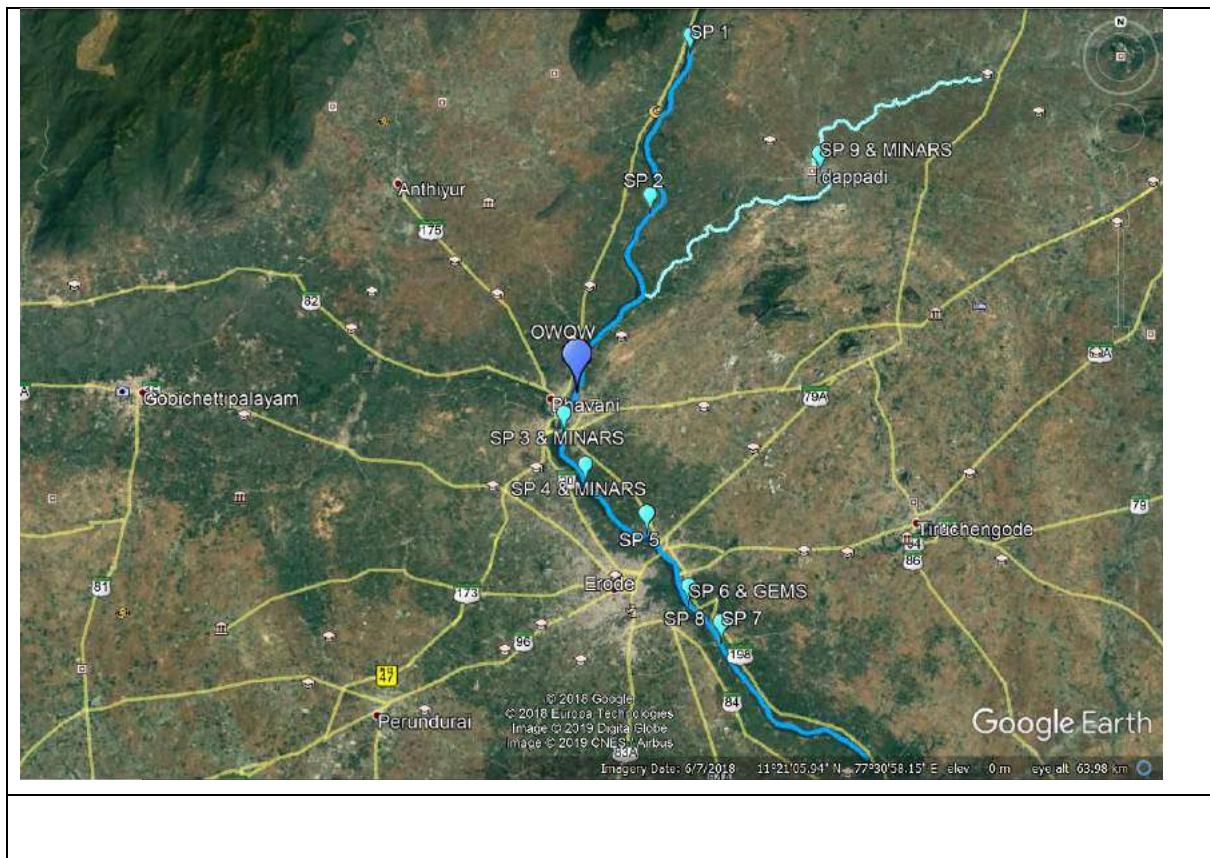
| | |
|---|--|
| <p>GEMS & MINARS SAMPLING POINTS</p> <p>M1 - River Cauvery at Mohanur (Near Main Pumping Station) – Lat : 11°03'06.63"N Long : 78°08'08.93"E</p> <p>M4 - River Cauvery at Paramthy Velur (Near Gasifier Crematorium) – Lat 11°05'50.09"N Long : 78°00'20.85"E</p> <p>Reference Sample Point.</p> <p>R1 - Mohanur Canal at Mohanur (Near Maduraveeni Temple) – Lat : 11°03'08.35"N Long : 78°08'13.74"E</p> <p>R2 - Drain near Thirumani bridge – Lat : 11°06'44.46"N Long : 78°02'08.55"E</p> <p>R3 - River Cauvery at Jedarpalayam Anaicut – Lat : 11°09'35.66"N Long : 77°53'04.55"E</p> <p>R4 - River Cauvery at Solasiramani (Down Stream Of Barrage) – Lat 11°14'31.95"N Long : 77°51'54.23"E</p> | <ul style="list-style-type: none"> • No Solid Waste Dumping Nearby the River Stretch. • No Sewage or Trade Effluent out fall in the River Cauvery. |
|---|--|

Status of water quality of River water and drains in the study area:

In this Office Jurisdiction, River Cauvery enters at Poolampatti Village, Edapadi Taluk, Salem District and ends at Molasi Village, Thiruchengode taluk, Namakkal District and the River Samples & Sewage samples were collected across the River Cauvery Stretches.

Ground water Sample Collected details along the River Stretch with live photographs & River Water and Drain Samples collected details with live photographs:

| Sl. No. | Sampling Points | Latitude | Longitude |
|---------|---------------------------------|-----------|-----------|
| 1. | Poolampatti | 11.656093 | 77.76366 |
| 2. | Kalvadangam | 11.559275 | 77.739512 |
| 3. | Kumarapalayam | 11.357693 | 77.724284 |
| 4. | Seerapalayam | 11.375267 | 77.703534 |
| 5. | Avathipalayam | 11.36179 | 77.746455 |
| 6. | Pallipalayam | 11.195654 | 77.53789 |
| 7. | Kokkarayanpettai - sewage drain | 11.315711 | 77.77956 |
| 8. | Kokkarayanpettai | 11.35711 | 77.77956 |



| Sampling Points | Sampling Points& GEMS/MINARS | Latitude | Longitude |
|-----------------|--|-----------|-----------|
| SP 1 | Cauvery River - Poolampatti | 11.656093 | 77.76366 |
| SP 2 | Cauvery River - Kalvadangam | 11.559275 | 77.739512 |
| SP 3 | Cauvery River – Kumarapalayam (MINARS) | 11.357693 | 77.724284 |
| SP 4 | Cauvery River – Seerapalayam (MINARS) | 11.375267 | 77.703534 |
| SP 5 | Cauvery River - Avathipalayam | 11.36179 | 77.746455 |
| SP 6 | Cauvery River - Pallipalayam (GEMS) | 11.195654 | 77.53789 |
| SP 7 | Kokkarayanpettai - sewage drain | 11.315711 | 77.77956 |
| SP 8 | Cauvery River - Kokkarayanpettai | 11.35711 | 77.77956 |



Latitude: 11.656093
Longitude: 77.76366
Elevation: 178.77m
Accuracy: 3.2m
Azimuth: 257° (W)
Pitch: -16.9° (1.1°)
Time: 02-01-2019 17:28

Powered by AngleCam

**River Cauvery - Poolampatti
(Down Stream)**



Latitude: 11.559331
Longitude: 77.73958
Elevation: 145.48m
Accuracy: 12.0m
Time: 04-01-2019 12:32
Note: Cauvery River Kalvadangam

Powered by NoteCam

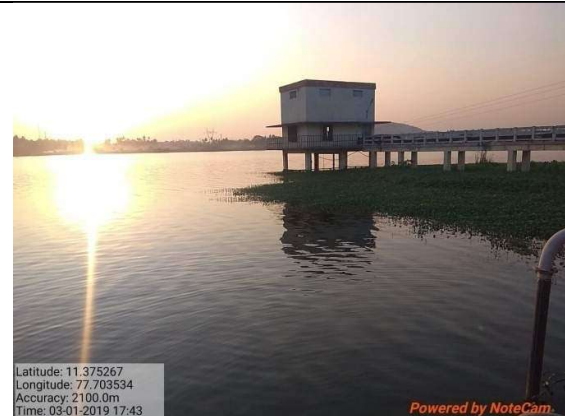
River Cauvery - Kalvadangam



Latitude: 11.357693
Longitude: 77.724284
Accuracy: 1800.0m
Time: 03-01-2019 18:17

Powered by NoteCam

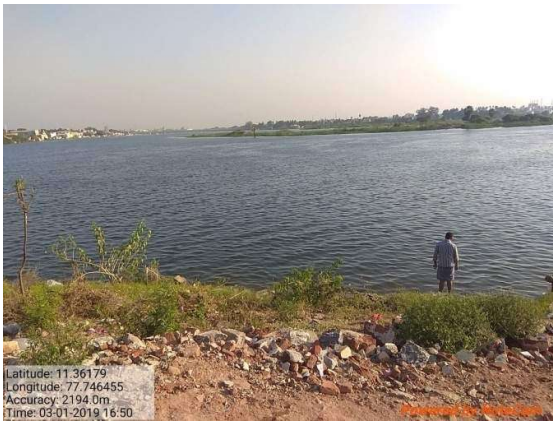
**River Cauvery – Kumarapalayam, near
Bridge**



Latitude: 11.375267
Longitude: 77.703534
Accuracy: 2100.0m
Time: 03-01-2019 17:43

Powered by NoteCam

**River Cauvery – Seerampalayamnear
Pumping Station**



River Cauvery – Avathipalayam near Pumping Station



River Cauvery – Pallipalayam near Barrage



Kokkarayanpettai (Sewage Drain), near bridge



River Cauvery – Kokkarayanpettai, Near Bridge

Industrial Pollution:

• **Highly Polluting (17 Category) Industries:**

- 1) M/s.Seshasayee Paper and Board Limited–Odapalli Agraharam Village, Kumarapalayam Taluk, Namakkal District is a 17 Category industry and is in operation. The unit has provided effluent treatment plant for the treatment of trade effluent generated from their process and treated trade

effluent is utilized for on land for irrigation/gardening purposes. Online Continuous Effluent Monitoring System was provided (OCEMS).

- 2) M/s. Ponni sugars Erode Limited – Sugar Division at Odapalli Agraharam Village, Kumarapalayam Taluk, Namakkal District is under operation. The unit has provided combined Effluent Treatment Plant for the treatment of trade effluent generated from their process and treated trade effluent is utilized for on land for irrigation/gardening purposes. Online Continuous Effluent Monitoring System was provided (OCEMS).
- 3) M/s. Ponni sugars Erode Limited – Cogen Power plant at Odapalli Agraharam Village, Kumarapalayam Taluk, Namakkal District is under operation. The unit has provided combined Effluent Treatment Plant for the treatment of trade effluent generated from their process and treated trade effluent is utilized for on land for irrigation/gardening purposes. Online Continuous Effluent Monitoring System was provided (OCEMS).

Dyeing Industry:

Authorized units:

In Kumarapalayam Taluk, there are 128 numbers of Dyeing and Bleaching Industries are in operation. All these dyeing and bleaching industries have provided individual effluent treatment plant with Zero Liquid Discharge System.

All the dyeing units have provided individual ETP for the treatment of trade effluent generated from their process and the treated trade effluent is recycled into their process and the rejects are sent to ATFD/SEP for further evaporations to achieve Zero Liquid Discharge System.

Unauthorized units:

Earlier there were 154 Nos. of unauthorized Textile Dyeing and Bleaching units identified in Kumarapalayam area & Pallipalayam area, Kumarapalayam Taluk, Namakkal District. The above unauthorized units

were of tiny and small scale in nature and discharge their untreated trade effluent into the municipal drain. These bleaching and dyeing units were discharging their trade effluent along with the domestic sewage reached the River Cauvery. Therefore, the above unauthorized dyeing units were issued closure direction by the Tamil Nadu Pollution Control Board and the power supplies to these units were disconnected.

The Environmental Engineer, Flying Squad, Erode has identified 43 Nos of illegal dyeing units functioning inKumarapalayam area as on 25.01.2019.

The details of action taken against the erring bleaching and dyeing units for the period from October 2017 to 28th February 2019 through the District Co-ordination Committee are submitted below for favour of kind information please.

| Action taken on unauthorized units through DCC-NML | | | |
|---|-------------------------|------------------------------------|--------------------------|
| S.No | Date of Eviction | No.of units Evicted / power | Place of Eviction |
| 1 | 14.12.2017 | 10 | Pallipalayam |
| 2 | 08.02.2018 | 50 | Kumarapalayam |
| 3 | 04.04.2018 | 5 | Pallipalayam |
| 4 | 19.04.2018 | 3 | Pallipalayam |
| 5 | 24.04.2018 | 4 | Kumarapalayam |
| 6 | 28.04.2018 | 3 | Pallipalayam |
| 7 | 02.05.2018 | 7 | Kumarapalayam |
| 8 | 03.05.2018 | 4 | Kumarapalayam |
| 9 | 05.05.2018 | 7 | Kumarapalayam |
| 10 | 10.05.2018 | 8 | Pallipalayam |
| 11 | 10.05.2018 | 4 | Kumarapalayam |
| 12 | 12.05.2018 | 3 | Pallipalayam |
| 13 | 12.05.2018 | 4 | Kumarapalayam |
| 14 | 01.06.2018 | 5 | Pallipalayam |
| 15 | 14.06.2018 | 5 | Kumarapalayam |
| 16 | 05.07.2018 | 13 | Pallipalayam |
| 17 | 07.08.2018 | 10 | Kumarapalayam |
| 18 | 12.10.2018 | 1 | Pallipalayam |
| 19 | 17.10.2018 | 6 | Pallipalayam |
| 20 | 15.03.2019 | 2 | Kumarapalayam |
| 21 | 22.03.2019 | 2 | Kumarapalayam |
| 22 | 26.03.2019 | 7 | Kumarapalayam |
| Total | | 163 | |

| Authorized units | | |
|------------------|------------|---|
| S.No | Date | No.of units closed / power disconnected |
| 1 | 04.04.2018 | 4 |
| 2 | 18.04.2018 | 2 |
| 3 | 28.04.2018 | 1 |
| 4 | 03.05.2018 | 2 |
| 5 | 12.05.2018 | 2 |
| 6 | 15.06.2018 | 1 |
| 7 | 28.09.2018 | 1 |
| 8 | 11.10.2018 | 1 |
| 9 | 12.10.2018 | 1 |
| 10 | 15.10.2018 | 1 |
| 11 | 28.01.2019 | 1 |
| 12 | 05.02.2019 | 1 |
| 13 | 07.02.2019 | 3 |
| 14 | 09.02.2019 | 1 |
| 15 | 21.03.2019 | 1 |
| Total | | 23 |

Actions are being taken through DCC against the land owners to vacate the unauthorized bleaching/dyeing units. In this regard about 14 units were completely vacated in Pallipalayam and Kumarapalayam areas.

| Unauthorized industries | | | | Authorized industries | |
|-------------------------|---------------------------|---------------------|-------|---------------------------|-------|
| Demolished | Power supply disconnected | Vacated them selves | Total | Power supply disconnected | Total |
| 163 | - | 14 | 177 | 23 | 23 |

The proposed CETP (M/S. Kumarapalayam Green Cauvery meant for 83 member units of UA bleaching and dyeing in Kumarapalayam) about 43 member units are identified to be under operable condition. Whenever these units are found to be in operation actions are taken through DCCC.

Present/proposed CETP capacity/Member units:

There are two CETP proposals under process in Kumarapalayam jurisdiction.

1. M/s. Green Environmental Association (M/s. Ever Green Enviro Tech) - (118 Members) - Proposed cost - 150 Crores - land has been Purchased. The Green Environmental Association has been issued with Terms of Reference (TOR) in the SEIAA meeting conducted on 03.08.2018.

Whereas, as per the Amendments in EIA Notification Dated: 19.12.2018, issued by the MoEF, New Delhi, the Environmental Clearance for Common Effluent Treatment Plants (CETPs) setup for or within projects or activities are exempted. The CETP is in the process of applying for CTE. Further it is understood that the report has also been submitted to the Ministry of Textiles, New Delhi for scrutinizing through the Project Scrutinizing Committee (PSC) & Project Approval Committee (PAC)

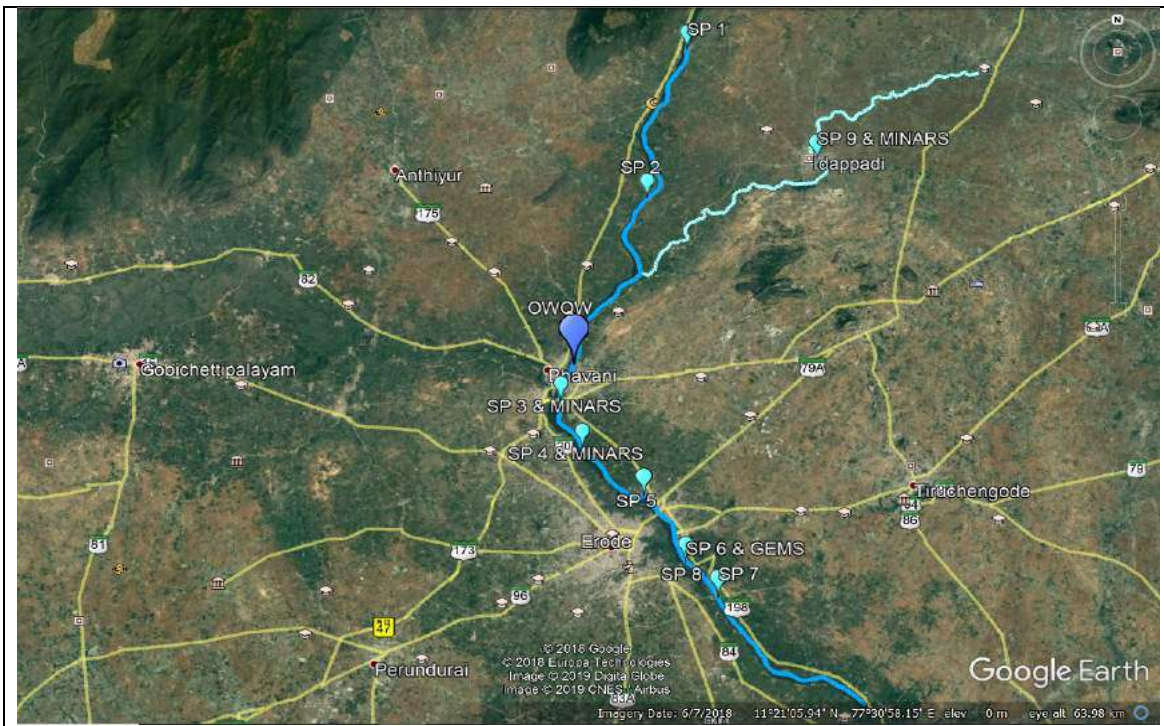
2. M/s. Kumarapalayam Green Cauvery Dyeing Cluster (83 Members) - Proposed Cost - 150 Crores. Feasibility report submitted to the Government of Tamil Nadu TWICL- 22.5 acres Land has been purchased.

Online Water Quality Watch

As per the Hon'ble Minister for Environment, Government of Tamil Nadu announcement during the Budget session 2016-2017 for the betterment of Environmental Management system in River Cauvery, the Online Continuous River Quality Monitoring System in River Cauvery have been installed at Kumarapalayam, near Kumarapalayam Municipality Raw Water pumping station (Edappadi road, Opp to the unit of M/s SSM Processing). The system was functioning from 20.04.2018.

Similarly, Online Continuous River Quality Monitoring Systems in River Cauvery have been installed at Head works site of Subburayavalasu in Erode District (Downstream of Pallipalayam and Erode Towns) and Tamil Nadu News Prints and Paper Limited raw water intake well in Karur District (Downstream after confluence point of River Noyal).

Google map showing the Online Continuous River Quality Monitoring System in the Cauvery River at Kumarapalayam, Namakkal District.



| | | | |
|------|----------------------------|-----------|-----------|
| OWQW | Online Water Quality Watch | 11.454166 | 77.695000 |
|------|----------------------------|-----------|-----------|

Photographs of Online Continuous River Quality Monitoring System in River Cauvery at Kumarapalayam near Kumaparalayam Municipality Raw Water Pumping Station.





Summary Reading of Upstream of Pallipalayam – Kumarapalayam from 01.03.2019 to 25.03.2019.

3.1.9 Operational Status of ETPs:

The trade effluents generated from the Paper mill and Sugar mills are treated in the individual ETP and the treated water is utilized on land for irrigation.

All the dyeing units have provided individual ETP for the treatment of trade effluent generated from their process and the treated trade effluent is recycled into their process and the rejects are sent to ATFD/SEP for further evaporations to achieve Zero Liquid Discharge System.

3.1.10 Status of installation and operational status of Online Continuous Effluent Monitoring System (OCEMS)

Online Continuous Effluent Monitoring System was provided in the following 17 Category and Red/Large industries located along with the Cauvery River Stretch namely.

17 Category Industries along the River Stretch

1. M/s. Seshasayee Paper and Board Limited– Odapalli Agraharam Village, Kumarapalayam Taluk, Namakkal District.
2. M/s. Ponni sugars Erode Limited – Sugar Division, Odapalli Agraharam Village, Kumarapalayam Taluk, Namakkal District.

Red Large Industries along the River Stretch

1. M/s. S.S.M Processing Mills Limited – Ayyampalayam Agraharam Village, Kumarapalayam Taluk, Namakkal District.

3.1.11 Main findings and observations

During inspection of River Cauvery Stretch, there is no discharge of industrial effluents noticed. Sewage Drains at Poolampatti Town Panchayat, Kalvadangam Village, Thevur Town Panchayat of Salem District were reaching River Cauvery. Similarly, Sewage Drains of Kumarapalayam Municipality, Seerampalayam Village, Avathipalayam Village, Pallipalayam Municipality, Kokkarayanpettai Village panchayat of Kumarapalayam Taluk, Namakkal District and Pattlur Village, Molasi Village of Thiruchengode Taluk, Namakkal District reaches River Cauvery.

3.1.12 General observations and recommendations of the inspection teams

- There are no major industries discharging effluent directly into the river.
- All the sewage generated from the Kumarapalayam and Pallipalayam areas passes through drains and confluence in River Cauvery.
- In this office Jurisdiction 141 Textile Dyeing and Bleaching units have obtained consent of the Board (ie. 86 units located in Pallipalayam area and 55 units located) in Kumarapalayam area of Kumarapalayam Taluk, Namakkal District. Among these units, 14 units have issued with Consent to Establishment order and remaining 127 units have been issued with Consent to operate order. All these dyeing and bleaching industries have provided individual effluent treatment plant with Zero Liquid Discharge System.
- There are about 120 Nos. of unauthorized Textile Dyeing and Bleaching units identified in Kumarapalayam area & Pallipalayam area of Kumarapalayam Taluk, Namakkal District. Generally, these textile dyeing units in this cluster are tiny in nature and mostly carrying out manual dyeing in tanks, without machineries and power supply. These unauthorized units

were of tiny and small scale in nature and discharge their untreated trade effluent into the municipal drain and this trade effluent along with the domestic sewage reached the River Cauvery which in turn caused surface water pollution.

- As per the Directions of Hon'ble High Court of Madras in W.P. Nos. 5494/98 and 30153/03 on 4.7.2007 and as per TNPCB B.P. Ms. No. 12, dated: 21.04.2015, Namakkal District Collector has formed District Co-ordination Committee vide Roc No. 1008/DEE/TNPCB/NML/2017-1, dated:28/10/2017 and reconstituted vide ROC. Dated 06/09/2018 to restrain the operation of illegal units discharging the untreated effluent on land or into water bodies. Further, the Namakkal District Collector has formed Core committee headed by Revenue Divisional Officer, Tiruchengode to take immediate action to prevent illegal discharge of effluent from dyeing units into water bodies vide ROC No.1008-2/DEE/TNPCB/NML/2017-2dated28/10/2017. District Coordination committee is taking action against the erring units as and when it is brought to the notice.
- Meanwhile, the Hon'ble Chief Minister of Tamil Nadu has announced Cluster Development Programme with Common Effluent Treatment Plant Scheme for the micro & tiny textile processing units at Namakkal, Erode, Karur & Salem District under rule 110 in the Tamil Nadu Legislative Assembly on 11.8.2014 in order to safeguard the livelihood of people depending upon Bleaching / Dyeing units & Handloom sector and also to preserve the Environment.

3.1.13 Recommendations – Action Plan for the River Stretch

- i. All the local bodies located near the River Stretch may be initiated to provide Sewage Treatment Plant for the treatment of sewage generated from their areas.

- ii. Proper fencing may be provided for the entire River Banks on both sides to avoid illegal discharge of effluents and dumping of solid wastes in the River Stretches.
- iii. Online Continuous Water Quality Monitoring Systems may be provided at the regular intervals in the entire River Stretch to find out illegal discharges if any to control the Water Pollution in the River Streams.
- iv. Monitoring Squad / Inspection Teams (including Other Government Departments) may be formed to assess the water quality of the River Stretch once in three months.

3.1.14 List of non-complying industries details

Nil

3.1.15 Conclusion

River Cauvery is Categorised as Polluted River Stretch as Priority I. The River gets contaminated due to sewage discharge only when it flows through Kumarapalayam Taluk. All the local bodies located along the River Stretch may be instructed to provide Sewage Treatment Plant for the treatment of sewage generated from their areas.

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3.0 NAMAKKAL DISTRICT (NAMAKKAL)

3.2 Namakkal

3.2.0 ABSTRACT:

The detailed study on the Cauvery river stretch in the jurisdiction pertaining to the O/o DEE, TNPCB, Namakkal including present water quality status in this stretch, identified sources of pollution and action plan for the rejuvenation of river Cauvery is submitted in this report.

3.2.1 INTRODUCTION ABOUT THE RIVER STRETCH:

The Cauvery River enters in the jurisdiction of O/o DEE, Namakkal at Solasiramani Village, Paramathi Velur Taluk and ends at Vadugapatti in Oruvandhur Village Panchayat, Mohanur Taluk, Namakkal District. The total length of River Cauvery in Namakkal District pertaining to the O/o DEE, TNPCB, Namakkal is about 53 km.

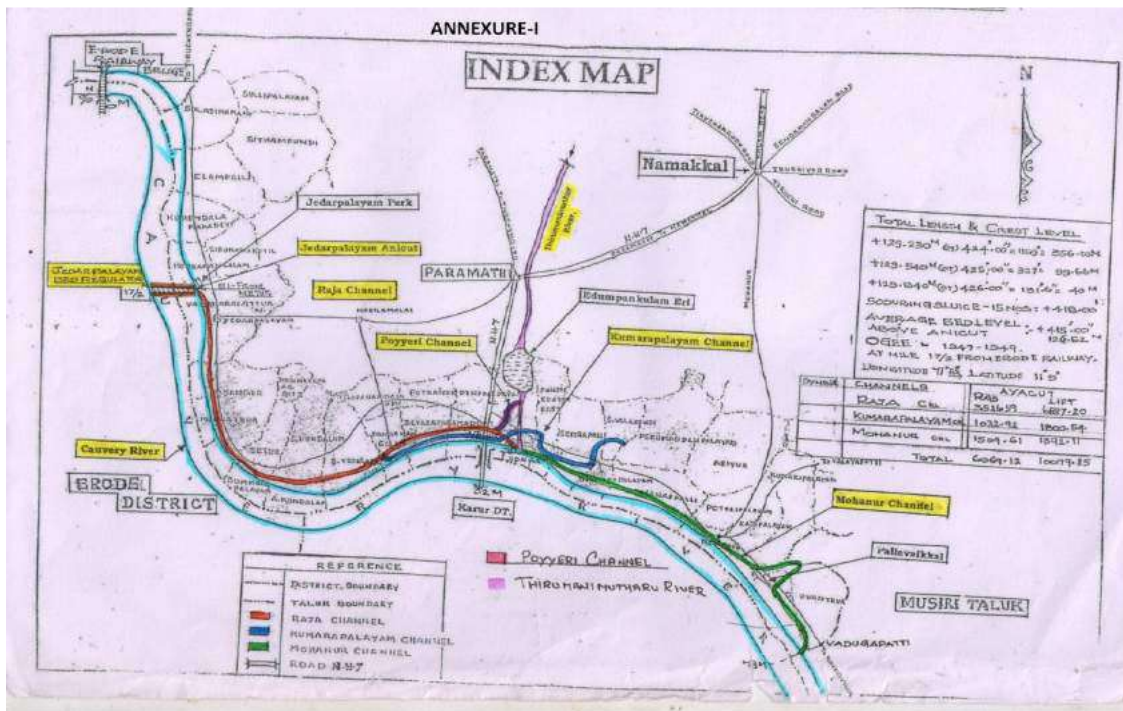
The two important features built across the river Cauvery in this stretch is Solasiramani Barrage and the Jedarpalayam Bed Regulator. The Solasiramani Barrage was constructed for hydel power generation and the Jedarpalayam Bed regulator was constructed to raise the water level and to divert the river water into the left bank and right bank canals which in turn called as Rajavaikals, The river Manimutharu a tributary of river cauvery joins at Kooduthurai in cauvery in Paramathy Velur Taluk of Namakkal District.,

The two major towns located in this stretch is Paramathy Velur Town Panchayat and the Mohanur Town Panchayat. The other small towns are solasiramani, Jedarpalayam, Pandamangalam and Pothanur. Map showing the river flow pattern, area names, drain points, is attached with this report.

3.2.1a River Cauvery Flow Diagram



River Cauvery Flow Diagram with Sample Collection Locations





Photographs showing the entry location of River Cauvery at Solasiramani Village, Paramathi Velur Taluk, Namakkal District



Photographs showing the exit location of River Cauvery at Palapatti in Oruvanthur Village, Mohanur Taluk, Namakkal District

3.2.2 SOURCE OF POLLUTION IN THE RIVER STRETCH:

The River Cauvery flowing through Namakkal District is categorized as stretch (Mettur to Mayiladuthurai) stretch.

- (i) There is no direct or indirect discharge of industrial effluent into the river Cauvery in this river stretch.
- (ii) Sewage generated from the two major town panchayats i.e Paramathy Velur Town Panchayat and the Mohanur Town Panchayat and all other small towns such as Jedarpalayam, Pandamangalam and Pothanur are drained into the Rajavaikal which is called as left Bank canal and as Rajavaikal upto Palapatti and later termed as Mohanur vaikkal. This is an irrigation canal and the water is used for irrigation. The map showing the above locations are attached with this report.
- (iii) The list of industries located near the stretch and their operational status along with the waste water disposal details below table.

Table - List of industries & their operation status

| Sl. No | Name of the Unit | Operational Status | Trade Effluent generation | Consent Status | Distance from River Sketch | Disposal | Hazardous Waste Authorization Details. |
|--------|---|--------------------|---|------------------|----------------------------|------------------------|---|
| 1 | M/s. Shankar Tex, S.F.No. 144/1, Solaseramani Village, Paramathi Velur Taluk, Namakkal District. | In Operation | Trade Effluent I - 145.95 KLD Trade Effluent II - 6.05 KLD | RCO – 31.03.2021 | Adjacent | Zero Liquid Discharge | Bleaching activity. The unit authority was advised to apply and obtain authorization under HWA Rules, 2016. |
| 2 | M/s The Salem Co.Operative Sugar Mills LTD, SF.No. 107/2, 3, 108/1.2, 109/1, 136, 137/2, 138, Pettapalayam Village, Mohanur Post, Namakkal Taluk, Namakkal District | In Operation | Trade Effluent – 1750 KLD | RCO – 31.03.2019 | 1.5 KM | On land for Irrigation | No Hazardous Waste generation from the unit. |
| 3 | M/s . The Salem Co.Operative Sugar Mills LTD (Distillery Unit), SF.No.135,139,140, Pettapalayam Village, Mohanur Post, Namakkal Taluk, Namakkal District | In Operation | Trade Effluent - 700.0 KLD | RCO – 31.03.2018 | 1.5 KM | Zero Liquid Discharge | No Hazardous Waste generation from the unit. |

- (i) The consolidated ROA of the unit M/s Salem Cooperative Sugar limited is enclosed in Annexure IV.

3.2.3 INSPECTION TEAM DETAILS:

The team comprising the following officials have inspected the sewage outfalls in River Cauvery on 03.01.2019 and collected samples of river water in those places. .

| Sl. No. | Officials | Office |
|---------|---|---|
| 1. | Deputy Director (Lab) AEL Chennai | Advanced Environmental Laboratory, Tamil Nadu Pollution Control Board, Chennai |
| 2. | Assistant Director, AEL, Salem | Advanced Environmental Laboratory, Tamil Nadu Pollution Control Board, Salem |
| 3. | Deputy Chief Scientific Officer AEL, Vellore | Advanced Environmental Laboratory, Tamil Nadu Pollution Control Board, Vellore. |
| 4. | Environmental Scientist AEL, Cuddalore | Advanced Environmental Laboratory Tamil Nadu Pollution Control Board,Cuddalore. |
| 5. | Assistant Engineer, | Tamil Nadu Pollution Control Board, Namakkal. |

3.2.4 DISTRICT WISE DETAILS OF INDUSTRIES IN NAMAKKAL DISTRICT

A. Details of Industries:

| Sl. No. | District | Taluk | LARGE | | | | MEDIUM | | | | SMALL | | | | Total |
|---------|----------|--------------------|-------|--------|-------|-------|--------|--------|-------|-------|-------|--------|-------|-------|-------|
| | | | Red | Orange | Green | White | Red | Orange | Green | White | Red | Orange | Green | White | |
| 1 | Namakkal | KOLLIMALAI | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 |
| 2 | Namakkal | NAMAKKAL | 5 | 7 | 2 | 0 | 1 | 3 | 2 | 0 | 11 | 239 | 49 | 12 | 331 |
| 3 | Namakkal | PARAMATHI VELUR | 5 | 10 | 1 | 0 | 0 | 4 | 0 | 0 | 22 | 46 | 47 | 5 | 140 |
| 4 | Namakkal | RASIPURAM | 1 | 7 | 1 | 0 | 4 | 2 | 1 | 0 | 22 | 174 | 44 | 11 | 267 |
| 5 | Namakkal | SENDAMANGALAM | 1 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 29 | 61 | 14 | 4 | 115 |
| | Total | | 12 | 28 | 5 | 1 | 5 | 9 | 4 | 0 | 84 | 522 | 154 | 32 | 856 |

Sewage Treatment Plants (STP) Functioning in Namakkal District Pertaining To O/O DEE, Namakkal.

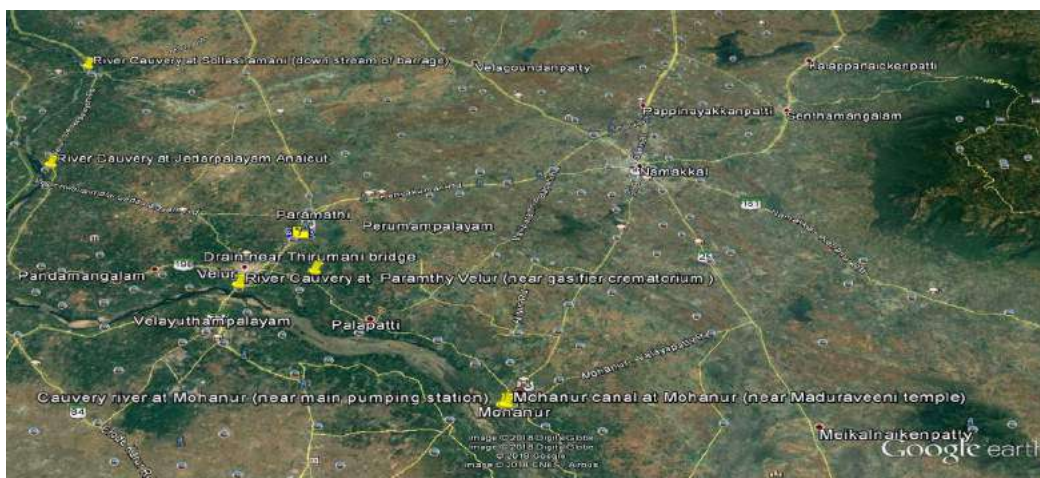
| Sl. No. | Name | Capacity and Disposal |
|---------|----------------|---|
| 1. | STP – Namakkal | 5 MLD- Treated sewage discharged into Kosavampatti Eri which in turn goes for irrigation. |

3.2.5 DETAILS OF SAMPLE COLLECTION IN RIVER CAUVERY:

The River samples and ground water samples were collected on 03.01.2019 by the above scientific team accompanied by the Assistant Engineer, Namakkal and the samples were sent for analysis for various parameters. The details of sample collection points are tabulated as below:

| Sl. No | Point of Collection | GPS Coordinates | | Observation |
|--------|---|-----------------|---------------|---|
| 1. | River Cauvery at Mohanur (near main pumping station) | 11°03'06.63"N | 78°08'08.93"E | <u>River Water</u> No sewage discharge is observed into Cauvery River The sewage generated in that area was discharged into the Mohanaur Canal |
| 2. | Mohanur canal at Mohanur (near Maduraveeni temple) | 11°03'08.35"N | 78°08'13.74"E | <u>Canal Water</u> The entire sewage from the towns and villages located along the stretch from Jedarpalayam to Mohanur is discharged into this irrigation canal and the sample is collected from this canal |
| 3. | Drain near Thirumani bridge | 11°06'44.46"N | 78°02'08.55"E | <u>Drain Water</u> No flow observed at 1 KM upstream of confluence point of Thirumani Mutharu with Rajavaikal. Sample water collected from the irrigation drain located adjacent.. |
| 4. | River Cauvery at Paramthy Velur (near gasifier crematorium) | 11°05'50.09"N | 78°00'20.85"E | <u>River Water</u> No sewage discharge is observed into Cauvery River The sewage generated in that area was discharged into the Rajavaikal Canal |
| 5. | River Cauvery at Jedarpalayam Anaicut | 11°09'35.66"N | 77°53'04.55"E | <u>River Water</u> No sewage discharge is observed into Cauvery River The sewage generated in that area was discharged into the Rajavaikal Canal |
| 6. | River Cauvery at Sollasiramani (downstream of barrage) | 11°14'31.95"N | 77°51'54.23"E | River Water at starting point of the stretch. |

SAMPLING LOCATIONS IN RIVER CAUVERY FROM SOLASIRAMANI TO MOHANUR STRETCH



- River Cauvery at Mohanur (near main pumping station)
11°03'06.63"N, 78°08'08.93"E
- Mohanur canal at Mohanur (near Maduraveeni temple)
11°03'08.35"N, 78°08'13.74"E
- Drain near Thirumani bridge
11°06'44.46"N, 78°02'08.55"E
- River Cauvery at Paramathi Velur (near gasifier crematorium)
11°05'50.09"N, 78°00'20.85"E
- River Cauvery at Jedarpalayam Anaicut
11°09'35.66"N, 77°53'04.55"E
- River Cauvery at Solasiramani (down stream of barrage)
11°14'31.95"N, 77°51'54.23"E

3.2.6 Status of water quality of River water and drains in the study area

Report of analysis for Cauvery River and drains -Namakkal District.

| Sl. No | Sample No. | Point of collection | DO | Faecal Coliform | BOD | Cu | Zn | Pb | Cd | Ni | Mn | Fe | T.Cr | Status of compliance with respect to WQC limit |
|--|------------|---------------------------------------|----------|------------------|----------|---------|---------|--------|---------|-------|------|-------|-------|--|
| | | Unit | mg/l | MPN/100ml | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 1 | 1744 | River Cauvery at Mohanur | 7.8 | 110 | <2 | <0.0015 | <0.0015 | <0.015 | <0.0008 | 0.050 | <0.1 | 0.06 | <0.05 | Complied |
| 2 | 1745 | Mohanur Canal at Mohanur | 6.5 | 140 | <2 | <0.0015 | <0.0015 | <0.015 | <0.0008 | 0.052 | <0.1 | 0.074 | <0.05 | Complied |
| 3 | 1746 | Drain near Thirumani Bridge | 4.4 | 110 | <2 | <0.0015 | <0.0015 | <0.015 | <0.0008 | 0.049 | <0.1 | 0.065 | <0.05 | Complied except DO |
| 4 | 1747 | River Cauvery at Paramathy Velur | 6.9 | 79 | <2 | <0.0015 | <0.0015 | <0.015 | <0.0008 | 0.049 | <0.1 | 0.093 | <0.05 | Complied |
| 5 | 1748 | River Cauvery at Jedarpalayam Anaicut | 8.6 | 21 | <2 | <0.0015 | <0.0015 | <0.015 | <0.0008 | 0.043 | <0.1 | 0.06 | <0.05 | Complied |
| 6 | 1749 | River Cauvery at Solasiramani | 8.7 | 46 | <2 | <0.0015 | <0.0015 | <0.015 | <0.0008 | 0.045 | <0.1 | <0.05 | <0.05 | Complied |
| Water quality criteria (WQC) limit for Bathing | | | ≥ 5 mg/l | ≤ 500 MPN/100 ml | ≤ 3 mg/l | - | - | - | - | - | - | - | - | - |

3.2.7 GENERAL OBSERVATIONS:

There is no direct or indirect discharge of industrial effluent into the river Cauvery in this river stretch. The sewage generated from the two major town panchayats i.e Paramathy Velur Town Panchayat and the Mohanur Town Panchayat and all other small towns such as solasiramani, Jedarpalayam, Pandamangalam and Pothanur are drained into the Rajavaikal which is called as left Bank canal and as Rajavaikal upto Palapatti and later termed as Mohanur vaikkal. This is an irrigation canal.

1. Sewage outfall points in the River with GPS coordinates.

There is no direct or indirect discharge of industrial effluent or sewage into the River Cauvery in this River stretch. No discharge of treated /untreated sewage in to the River Cauvery.No flow of sewage in the upstream of the River.

Photographs taken during the team inspecting the River stretch is given below



Figure - Downstream of Solasiramani barrage



Figure – At Jederpalayam Bed Regulator



Figure – At Paramathi Velur Downstream of NH – 7 Bridge



Figure – Confluence point of Thirumanimuthar with Mohanur Canal at Koodudurai



Figure – At Sarkar Manapalli Village, Mohanur Taluk, Namakkal District



Figure – Downstream of Vangal Bridge at Mohanur

3.2.8 SOLID WASTE MANAGEMENT:

The quantity of solid waste generated in the Mohanur Town Panchayat is 3.050 T/day. This solid waste is dumped in the dump site at Maniyangalipatty. The quantity of solid waste generated in Velur Town Panchayat is 8.37 T/ day and it is dumped in the solid waste management yard located at Vettukattupudur. The above said locations are indicated in the Map vide Annexure I.

During inspection, No dumping of solid waste into River Cauvery or banks of the River was observed.

Mohanur Town Panchayat and Paramathi Velur Town Panchayat are yet to apply for MSW authorization.

Mohanur Town Panchayat and Paramathi Velur Town Panchayat have provided compost yard for processing of MSW and the sewage generated is presently discharged in the nearby irrigation canals.

Population details of the local body on the River Stretch

| Sl.No | Name of the Local body | Population | Mode of disposal of sewage |
|-------|--------------------------------|------------|----------------------------|
| 1. | Paramathi Velur Town Panchayat | 25012 | In Rajavaikal |
| 2. | Mohanur Town Panchayat | 14315 | In Mohanur Canal |

3.2.9 RECOMMENDATIONS – ACTION PLAN FOR THE RIVER

STRETCH:

1. The Mohanur Town Panchayat shall explore the possibility of installation of individual sewage treatment plant to stop the discharge of untreated sewage into the Mohanur Canal.
2. The Velur Town Panchayat shall explore the possibility of installation of common sewage treatment plant along with Pothanur Town Panchayat to treat the sewage generated from the two town panchayats and to stop the discharge of untreated sewage into the Rajavaikal Canal.

In this regard, directions may be issued to the Director of Town Panchayats, Directorate of Town Panchayats, Chennai to submit the STP proposal and to comply with the Solid Waste Management Rules, 2016 for proper disposal of solid waste within the time schedule.

Proposed Short Term and Long Term Action Plan for Rejuvenation of River

Cauvery:

| Sl. No. | Description of Source | Action Plan for Rejuvenation of River Cauvery | Organisation/ Agency Responsible for Execution of the Action Plan | Time Target |
|---------|------------------------------|--|---|-------------|
| 1. | Industrial Pollution Control | No industrial discharge | TNPCB | - |
| 2. | Sewage | Namakkal District: <ul style="list-style-type: none">• Komarapalayam Municipality | | |

| | | | | |
|--|-----------------------------|--|--------------------------|----------|
| | Treatment and Disposal plan | <ul style="list-style-type: none"> • No. of sewage outfall identified: 5 Locations • Population: 76120 • Qty of Sewage generated: 5.60 MLD • Status of UGSS: Not Provided • Status of STP: Not Provided • Present mode of Disposal: The blackwater is collected in septic tanks by individual households. • Plan of Action: • It is proposed to establish 20KLD FSTP at an estimated cost of Rs.2.50 Crores with the financial assistance of ensuing 2019-20 IUDM funding and is expected to be completed before December 2019. • To handle the sullage water discharged through 7 nos. of major channels which confluence with the river stretch,it is proposed to provide in-situ treatment methodology by providing Screen, Grit followed by Horizontal planted gravel filter. • The ULB has prepared detailed estimate for establishing liquid waste treatment facility at a cost of Rs.1054.00 lakh. This fund is proposed to be tied up with Infrastructure gap filling fund 2019-20 and is expected to be | Municipal Administration | Dec-2019 |
|--|-----------------------------|--|--------------------------|----------|

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| | | completed by October 2019 . | | Oct-2019 |
| | | <p>❖ Palipalayam Municipality</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: 8 Locations • Population: 44120 • Qty of Sewage generated: 2.95 MLD • Status of UGSS: Not Provided • Status of STP: Not Provided • Present mode of Disposal: The blackwater is collected in septic tanks by individual households. • Plan of Action: • It is proposed to cluster with Erode STP and co-treated. • To handle the sullage water discharged through 7 nos. of major channel which confluence with the river stretch, it is proposed to provide in-situ treatment methodology by providing Screen, Grit followed by Horizontal planted gravel filter. • The ULB has prepared detailed estimate for establishing liquid waste treatment facility at a cost of Rs.413.00lakh. The fund is proposed to be tied up with Infrastructure gap filling fund 2019-20 and is expected to be completed by October 2019. | Municipal Administration | Oct-2019 |
| | | <p>❖ Mohanur Town Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: | Directorate of Town | |

| | | | | |
|--|--|--|-----------|-----------|
| | | <p>Nil</p> <ul style="list-style-type: none"> • Population: 15174 • Qty of Sewage generated: 0.550 MLD • Status of UGSS: Not Provided • Status of STP: Not Provided • Present mode of Disposal: Sullage water let out into Raja Vaikal. • Plan of Action: • Detailed project report have been prepared at an estimated cost of Rs 160.00 Lakhs for treatment and disposal of sullage water by Reed Bed Filter Technology under IUDM 2019-2020 fund. • In Mohanur Town Panchayat, total households are 4940. Out of this, 4394 toilets are available in their own premises. Additionally 76 houses have been covered under HFA scheme with toilets. Rest of the people are using 16 No of Community/Public Toilets. | Panchayat | June-2020 |
|--|--|--|-----------|-----------|

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|--|--|---|--------------------------------------|------------------|
| | | <p>❖ Paramathivellur Town Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: Nil • Population: 25012 • Qty of Sewage generated: 1.196 MLD • Status of UGSS: Not Provided • Status of STP: Not Provided • Present mode of Disposal: Sullage water let out into Raja Vaikal. <p>❖ Plan of Action:</p> <ul style="list-style-type: none"> • Detailed project report have been prepared at an estimated cost of Rs 150.00 Lakhs for treatment and disposal of sullage water by Reed Bed Filter Technology under IUDM 2019-2020 fund. • In Velur Town Panchayat, total households are 7464. Out of this, 6714 toilets are available in their own premises. Additionally 111 houses have been covered under HFA scheme with toilets. Rest of the people are using 33 Nos of Community/Public Toilets. | <p>Directorate of Town Panchayat</p> | <p>June-2020</p> |
|--|--|---|--------------------------------------|------------------|

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|--|--|---|--|-----------------|
| | | <p>Namakkal District</p> <p>❖ Kokkarayanpettai Village Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: 2 locations • Population: 5907 • Qty of Sewage generated: 0.0013 MLD • Status of UGSS: Not Provided • Status of STP: Not provided • Present mode of Sewage disposal: 223 households having twin leach pit toilet, 692 households having toilet with septic tank and method of disposal of over flow water, 135 households having soak pits under MGNREGS Scheme, 15 households not covered with soak pit, not having adequate space for construction. • Plan of Action: Remaining households to be connected with individual Soak pits or community soak pits (vertical type) to be provided under MGNREGS 2019-2020. After construction of soak pits no waste water will be disposed into the river. | <p>Rural Development & Panchayat Raj</p> | <p>Oct-2019</p> |
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|--|--|--|--|-----------------|
| | | <p>❖ Patlur Village Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: 1 location. • Population: 2500 • Qty of Sewage generated: 0.035 MLD • Status of UGSS: Not Provided • Status of STP: Not provided • Present mode of Sewage disposal: Out of 2500 households 670 households having twin leach pit toilet, 130 households having toilet with septic tank and method of disposal of over flow water, 420 households not covered with soak pit but having adequate space for construction, 120 households having no space and directly discharging grey water(5.2KLD) into open drain • Plan of Action: Remaining households to be connected with individual Soak pits or community soak pits (vertical type) to be provided under MGNREGS 2019-2020 at cost of Rs. 1,16,000/- proposal to construct Horizontal filter and Vertical filter to reduce the contamination. After construction of soak pits no waste water will be disposed into the river. | <p>Rural Development & Panchayat Raj</p> | <p>Oct-2019</p> |
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| | | <p>❖ A.Erayamangalam Village Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: 1location. • Population: 3680 • Qty of Sewage generated: 0.026 MLD • Status of UGSS: Not Provided • Status of STP: Not provided • Present mode of Sewage disposal: Out of 1187 households 912 households having twin leach pit toilet, 246 households having toilet with septic tank and method of disposal of over flow water, 898 households not covered with soak pit but having adequate space for construction, 260households having no space and directly discharging grey water(5.2KLD) into open drain • Plan of Action: Remaining households to be connected with individual Soak pits or community soak pits (vertical type) to be provided under MGNREGS 2019-2020& 2020-2021. Fund – Rs. 116000/- Proposal to construct Horizontal filter and Vertical filter to reduce the contamination. After construction of soak pits no | Rural Development & Panchayat Raj | Oct-2019 |
|--|--|--|-----------------------------------|----------|

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| | | waste water will be disposed into the river. | | |
| | | <p>❖ Molasi Village Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: 1 location. • Population: 5100 • Qty of Sewage generated: 0.0286 MLD • Status of UGSS: Not Provided • Status of STP: Not provided • Present mode of Sewage disposal: Out of 1287 households 375 households having twin leach pit toilet, 410 households having toilet with septic tank and method of disposal of over flow water, 295 households not covered with soak pit but having adequate space for construction, 374 households having no space and directly discharging grey water(6.1KLD) into open drain <p>• Plan of Action: Remaining households to be connected with individual Soak pits or community soak pits (vertical type) to be provided under MGNREGS 2019-2020 & 2020-2021. Fund – Rs. 116000/- Proposal to construct Horizontal filter and Vertical filter to reduce the contamination.</p> | Rural Development & Panchayat Raj | Oct-2019 |

| | | | | |
|----|--|---|--------------------------|--|
| | | After construction of soak pits no waste water will be disposed into the river. | | |
| 3. | Solid Waste Management and Disposal Plan | <p>❖ Namakkal District</p> <ul style="list-style-type: none"> • Komarapalayam Municipality • No. of MSW dumping points identified: Nil • Population: 76120 • Qty of MSW Generated: <p>Wet waste: 14 TPD Dry waste: 8 TPD Total: 22 TPD MSW Collection – 100% MSW Segregation – 100% Present Treatment Method: Wet waste: 14 TPD</p> <ol style="list-style-type: none"> 1. Micro Composting Plant – 2 Nos. of 6 TPD (Completed and put to use) 2. On – Site Composting – 3 locations – 0.5 TPD (Completed and put to use) 3. Barrel Composting– 1800 nos. of 9 TPD - Functioning <p>Dry waste: 8 TPD</p> <ul style="list-style-type: none"> • Saleable waste of 4.50 TPD sold out to the identified vendors & registers are being maintained. • The Non saleable, Non Biodegradable waste of 3.5 TPD is stored in the RRC at C.N Palayam Weekly Market and periodically disposed to Ponni Sugar mills | Municipal Administration | |

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|--|--|--|--------------------------|---|
| | | <ul style="list-style-type: none"> • Inert & Silt -0.50TPD Stored along with C&D waste. Used for Filling Low Lying Areas <p>Proposed Plan of Action: Nil</p> <p>MSW Treatment Facility provided.</p> | | - |
| | | <p>❖ Palipalayam Municipality</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: 1 location • Population: 44120 • Households: 12471 • Qty of MSW Generated: <p>Wet waste: 7 TPD Dry waste: 5 TPD Total: 12 TPD MSW Collection – 100% MSW Segregation – 100% Present Treatment Method: Wet waste: 7 TPD</p> <ul style="list-style-type: none"> • Bio Methanation– 1 no. of 5TPD (Completed and functioning)- Gas used for street lighting <p>Dry waste: 5 TPD</p> <ul style="list-style-type: none"> • Saleable waste of 3TPD sold out to the identified vendors & registers are being maintained. • The Non saleable Non Biodegradable waste of 1.40 TPD is stored in the RRC at Avathipalayam • Inert & Silt -0.60TPD Stored along with C&D waste. Used for Filling Low Lying Areas <p>Proposed Plan of Action:</p> | Municipal Administration | |

| | | | | |
|--|--|---|-------------------------------|-----------|
| | | <p>Wet Waste:</p> <ul style="list-style-type: none"> • Micro Composting Plant – 1 Nos. of 2 TPD (Will be completed before June 2019- SBM funds). | | June-2019 |
| | | <p>❖ Mohanur Town Panchayat</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: Nil • Population: 15174 • Qty of MSW Generated:3.05 TPD <p>Source Collection & Segregation – Yes</p> <p>Treatment method:Windrow & Vermi composting</p> <p>Present Mode of MSW Disposal:</p> <ul style="list-style-type: none"> • Wet Waste of 1.453 TPD are processed as manure by Windrow & Vermi Compost method and then sold to Farmers. • Dry Waste – 0.697 TPD • Recyclable waste (plastic, metal, rubber etc., 0.240 TPD sold out to the identified vendors. • The Non-Recyclable waste of 0.457 TPD periodically disposed. • Inerts & Silt 0.900 TPD used for filling pre-identified low lying areas. <p>Plan of Action:</p> <ul style="list-style-type: none"> • Collection, segregation, treatment, disposal are under implementation in accordance | Directorate of Town Panchayat | - |

| | | | | |
|--|--|---|-------------------------------|----------|
| | | with Municipal Solid Waste management Rules 2016. | | |
| | | <p>❖ Paramathivellur Town Panchayat</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: Nil • Population: 25012 • Qty of MSW Generated: 8.37 TPD <p>Source Collection & Segregation – Yes</p> <p>Treatment method:Windrow composting</p> <p>Present Mode of MSW Disposal:</p> <ul style="list-style-type: none"> • Wet Waste of 5.33 TPD are processed as manure by Windrow & Vermi Compost method and then sold to Farmers. • Dry Waste – 1.78 TPD • Recyclable waste (plastic, metal, rubber etc., 0.270 TPD sold out to the identified vendors. The • Non-Recyclable waste of 1.510 TPD periodically disposed. • Inerts & Silt 1.260 TPD used for filling pre-identified low lying areas. <p>Plan of Action:</p> <ul style="list-style-type: none"> • Work order issued for Bio mining and construction of Compound wall at an estimated cost of Rs 47.50 Lakhs by SBM fund. | Directorate of Town Panchayat | Sep-2019 |

| | | | | |
|--|--|---|-----------------------------------|---|
| | | <ul style="list-style-type: none"> Collection, segregation, treatment, disposal are under implementation in accordance with Municipal Solid Waste management Rules 2016. | | |
| | | <p>❖ Kokkarayanpettai Village Panchayat</p> <ul style="list-style-type: none"> No. of MSW dumping points identified: Nil Population: 5907 Qty of MSW Generated: 0.28 TPD <p>Source Collection & Segregation – Yes</p> <p>Treatment method:</p> <p>➤ Bio-Degradable Waste:</p> <p>Dumped in the compost pits and cow dung are being sprayed at regular intervals and it becomes manure after 30 days and sold to the farmers.</p> <p>➤ Non Bio – Degradable Waste:</p> <p>Segregated glass, Plastic bottles, Covers, Iron, Aluminium foil sheets etc. once in 15 days and sold to the local merchants.</p> <p>Plan of Action: Nil</p> <p>Solid Waste facility Provided.</p> | Rural Development & Panchayat Raj | - |
| | | <p>❖ Patlur Village Panchayat</p> <ul style="list-style-type: none"> No. of MSW dumping points identified: Nil Population: 2500 Qty of MSW Generated: 0.188 | Rural Development & Panchayat Raj | |

| | | | | |
|--|--|---|-----------------------------------|--|
| | | <p>TPD</p> <p>Source Collection & Segregation – Yes</p> <p>Treatment method:</p> <p>➤ Bio-Degradable Waste:</p> <p>Dumped in the compost pits and cow dung are being sprayed at regular intervals and it becomes manure after 30 days and sold to the farmers.</p> <p>➤ Non Bio – Degradable Waste:</p> <p>Segregated glass, Plastic bottles, Covers, Iron, Aluminium foil sheets etc. once in 15 days and sold to the local merchants.</p> <p>Plan of Action: Nil</p> <p>Solid Waste facility Provided.</p> | | |
| | | <p>❖ A.Erayamangalam Village Panchayat</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: Nil • Population: 3625 • Qty of MSW Generated: 0.272 TPD <p>Source Collection & Segregation – Yes</p> <p>Treatment method:</p> <p>➤ Bio-Degradable Waste:</p> <p>Dumped in the compost pits and cow dung are being sprayed at regular intervals and it becomes manure after 30 days and sold to the farmers.</p> | Rural Development & Panchayat Raj | |

| | | | | |
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| | | <p>➤ Non Bio – Degradable Waste: Segregated glass, Plastic bottles, Covers, Iron, Aluminium foil sheets etc. once in 15 days and sold to the local merchants.</p> <p>Plan of Action: Nil Solid Waste facility Provided.</p> | | - |
| | | <p>❖ Molasi Village Panchayat</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: Nil • Population: 5100 • Qty of MSW Generated: 0.383 TPD <p>Source Collection & Segregation – Yes</p> <p>Treatment method:</p> <p>➤ Bio-Degradable Waste: Dumped in the compost pits and cow dung are being sprayed at regular intervals and it becomes manure after 30 days and sold to the farmers.</p> <p>➤ Non Bio – Degradable Waste: Segregated glass, Plastic bottles, Covers, Iron, Aluminium foil sheets etc. once in 15 days and sold to the local merchants.</p> <p>Plan of Action: Nil Solid Waste facility Provided.</p> | Rural Development & Panchayat Raj | - |
| 3. | Ground Water Quality | Generally the ground water quality satisfies the prescribed standards. | State Ground Water Authority, | - |

| | | | CGWB | |
|---|--|--|-----------------------------------|---|
| 4 | Environmental Flow (E-flow) and Irrigation Practices | <ul style="list-style-type: none"> • Mettur dam is opened for irrigation from June 12th to January 28th based on availability of water. It is opened for drinking purpose in the remaining days. During the monsoon period at flood time the maximum flood discharge in the river has been 284606 cusecs on 08.07.1961. • An extent of 1711258 Acres of land under the jurisdiction of Water Resource Department, Trichy Region is irrigated by River Cauvery. For good irrigation practices to conserve the water, water is supplied to the crops by adopting turn system and on rotational basis. Further awareness has been created among the farmers regarding minimum utilization of water by adopting drip and sprinkler irrigation system and also alternative crops in consultation with the Agriculture and Horticulture Departments. | PWD-WRD and Irrigation Department | - |
| 4 | E-flow | <ul style="list-style-type: none"> ➤ To maintain even water flow in the river throughout the year | Public Works Department (WRC) | |
| 5 | Flood Plain Zone | <ul style="list-style-type: none"> • Action will be taken up for | PWD-WRD, | - |

| | | | | |
|---|------------------------------------|---|--------------------------------|---|
| | (FPZ) | <p>eviction of encroachments after identification and demarcation of FPZ with the help of Revenue Department.</p> <ul style="list-style-type: none"> • There is Agricultural Encroachment all along the River Cauvery by the farmers with plantations like Banana, Sugarcane, Turmeric and other cash crops in the Flood Plain Zone (FPZ). • Plantation and Biodiversity parks will be formed after demarcation of FPZ and removal of encroachments with the help of Revenue Department. | Forest Department | |
| 6 | Encroachments along the river bank | <ul style="list-style-type: none"> • Encroachments: • District: Namakkal • Taluk: Komarapalayam • Cauvery River Reach in kM from left bank 38 KM to 56 KM • No. of Encroachment – 60 Locations • Extent (in Ha) – 2.72.0 • There is Agricultural Encroachment all along the River Cauvery by the farmers with plantations like Banana, Sugarcane, Turmeric and other cash crops in the Flood Plain Zone (FPZ). • Action taken: As per eviction Encroachment Act, | PWD-WRD and Revenue Department | - |

| | | | | |
|--|--|--|--|--|
| | | 2007 after obtaining form from the Revenue Department necessary action is being taken to remove the encroachments. | | |
|--|--|--|--|--|

The study of the Cauvery River stretch from Solasiramani to Oruvanthur pertaining to the O/o DEE, TNPCB, Namakkal reveals that there is no direct or indirect discharge of industrial effluent or sewage into the River Cauvery in this stretch.

The study of the Cauvery river stretch from solasiramani to Oruvanthur pertaining to the O/o DEE, TNPCB, Namakkal reveals that there is no direct or indirect discharge of industrial effluent into the river cauvery in this stretch.

The ROA of the river samples collected along this stretch reveals that the minimum DO in the river stretch is 6.5 mg/l and the BOD is less than 2 mg/l. The sewage generated from the two major town panchayats i.e. Paramathy Velur Town Panchayat and the Mohanur Town Panchayat and all other small towns such as Jedarpalayam, Pandamangalam and Pothanur are not drained into the river directly it is drained into the Rajavaikal which is called as left Bank canal and as Rajavaikal upto Palapatti and later termed as Mohanur vaikkal. This is a irrigation canal. This water is used for irrigation. Hence the Mohanur Town Panchayat shall explore the possibility of installation of individual sewage treatment plant to stop the discharge of untreated sewage into the Mohanur Canal and Velur Town Panchayat shall explore the possibility of installation of common sewage treatment plant along with Pothanur Town Panchayat to treat the sewage generated from the two town panchayats and to stop the discharge of untreated sewage into the Rajavaikal Canal and to discharge the treated sewage into the canal within the irrigation standards.

3.2.10. Conclusion

The quality of River water in the above stretch can be improved with the following measures:

- ✓ Kumarapalayam Municipality shall provide Sewage Treatment Plant within the time frame as per the action plan and shall ensure that the entire sewage generated from the local body is treated and disposed off scientifically.
- ✓ Pallipalayam Municipality, Mohanur, Paramathivellur Town Panchayat shall provide treatment system within the time frame as per the action plan and shall ensure that the entire sullage generated from the local body is treated and disposed off scientifically.
- ✓ Kokkarayanpettai, Patlur, Eryamangalam, Molasi Village Panchayats shall provide soak pit system within the time frame as per the action plan and shall ensure that the entire sewage generated from the local body is disposed off scientifically.
- ✓ Pallipalayam Municipality and Paramathivellur Town panchayat shall provide solid waste treatment facility within the time frame and shall ensure that the entire solid waste generated from the local body area including solid waste dumped along the River Bank is treated and disposed off scientifically.
- ✓ TNPCB shall ensure that no industrial effluent is discharged in the River at any point of time.

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4.0 KARUR DISTRICT

4.1 Introduction about the River Cauvery:

In Karur District the River enters at Kombupalayam Village and exit at Sirugamani Village, after travelling a distance of 56.16 km. In this stretch, two tributaries namely River Noyyal and River Amaravathi confluence with the River Cauvery.

In Karur District, 944 industries are located, out of which 260 industries are Red category, 392 are Orange category, 119 are Green category and 174 are White category industries. Except White category all the other industries have applied and obtained consent of Tamil Nadu Pollution Control Board. The units have provided effluent treatment plants to treat and dispose the trade effluent, Air Pollution Control Measures to suppress and control the emission and adopting effective solid waste management practice to handle hazardous and non-hazardous waste generated from their premises. All the above industries are continually monitored by Tamil Nadu Pollution Control Board. River Cauvery and Amaravathy are the Rivers running in the district. Regularly MINARS samples are being collected in Pugalur and Thirumukudalur located in the stretch of River Cauvery. Samples are being sent to Environmental Laboratories located at Dindigul and Salem for analysis. Ambient Air Quality Survey is done frequently in large scale industries to estimate the amount of particulate matters and gaseous emissions from the stacks of industrial sources. All the stacks in 17 category industries are connected to Care Air Centre located at the Head Office, Chennai. Two Municipalities and 11 Town Panchayat are located within the districts and the Local bodies are handling effective solid waste management as per guidelines suggested by Tamil Nadu Pollution Control Board. Online River water quality monitoring station is in operation at M/s. TNPL, Pump House located in River cauvery to facilitate the monitoring of River water quality round the clock.

Consolidated ROA of MINARS enclosed in Annexure – I.

4.2 Introduction about the River Stretch:

Cauvery flows in Karnataka and Tamil Nadu. The River covers a distance of about 765 km and flows through the state of Karnataka and Tamil Nadu. In Karur District the River enters at Kombupalayam Village and exit at Sirugamani Village, after travelling a distance of 56.16 km. In this stretch, two tributaries namely River Noyyal and River Amaravathi confluence with the River Cauvery.

4.3 Tributaries of River Cauvery:

River Noyyal:

The Noyyal River is a small River in Western Tamil Nadu, and a tributary of Cauvery River. It rises from the Vellingiri hills in the Western Ghats in Tamil Nadu, very close to Kerala border, and flows through many villages and the cities of Coimbatore, and Tirupur finally draining into the Cauvery River at Noyyal, a village in Karur district named after the River itself.

River Amaravathi:

Amaravathi River is a tributary of Cauvery River originates from Tirupur District and flows through Karur District. It is continuation of the Pambar and Chinnar Rivers in Kerala. It begins at Manjampatti Valley between the Anamalai Hills and the Palani Hills in Indira Gandhi Wildlife Sanctuary and National Park. It descends in a northerly direction through Amaravathi Reservoir and Amaravathi Dam at Amaravathinagar. Amaravathi River joins with the River Cauvery at Thirumukkudalur, about 10 km downstream side of Karur Town.

Map showing the Stretch of River Cauvery flow in the Karur District



4.4 Source of Pollution in River stretch:

Noyyal River is polluted with dyeing effluent discharge from various dyeing and bleaching units located in Tirupur District and hence it is the source of pollution in the River Cauvery in the Karur District. During the day of inspection with the scientist team from Tamil Nadu Pollution Control Board, Environmental Laboratory, Trichirapalli, samples were collected at the Maravapalayam stretch of River Cauvery. Further the effluent generating units and local bodies in Karur District are located away from River Cauvery, there is no discharge or drains into the River stream. Also the local bodies located nearby the River stretch are Kulithalai Municipality and Punjai Pugalur Town panchayat and they are disposing their sewage into the channels leading to agricultural lands.

4.5 Inspection team details:

| Sl. No | Name TVL | Designation | Office |
|--------|--------------------|-------------|--------------------|
| 1 | Mr Ramanathan | Dy. CSO | AEL, Trichirapalli |
| 2 | Mrs Thamarai selvi | Dy. CSO | AEL, Trichirapalli |
| 3 | V.Jayakumar | A.E | O/o DEE, Karur |
| 4 | S.Ponnusamy | F.A | O/o DEE, Karur |

4.6 District/Area wise details of industries:

A. Details of industries in operation

| Sl. No | Taluk | Red | Orange | Green |
|--------|------------------|------------|------------|------------|
| 1 | Aravakurichi | 98 | 166 | 30 |
| 2 | Kadavur | 9 | 16 | 2 |
| 3 | Karur | 82 | 143 | 52 |
| 4 | Krishnarayapuram | 13 | 19 | 6 |
| 5 | Kulithalai | 26 | 23 | 5 |
| 6 | Manmangalam | 32 | 25 | 24 |
| | Total | 260 | 392 | 119 |

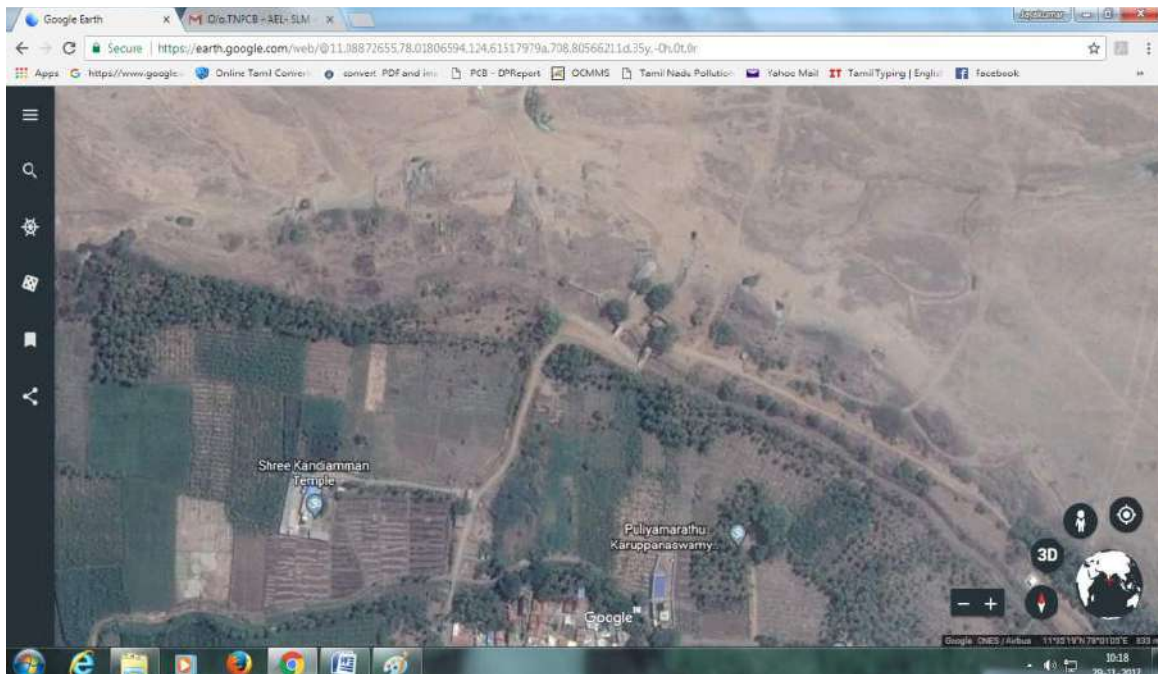
B. Details of industries located in the taluks where the River passes:

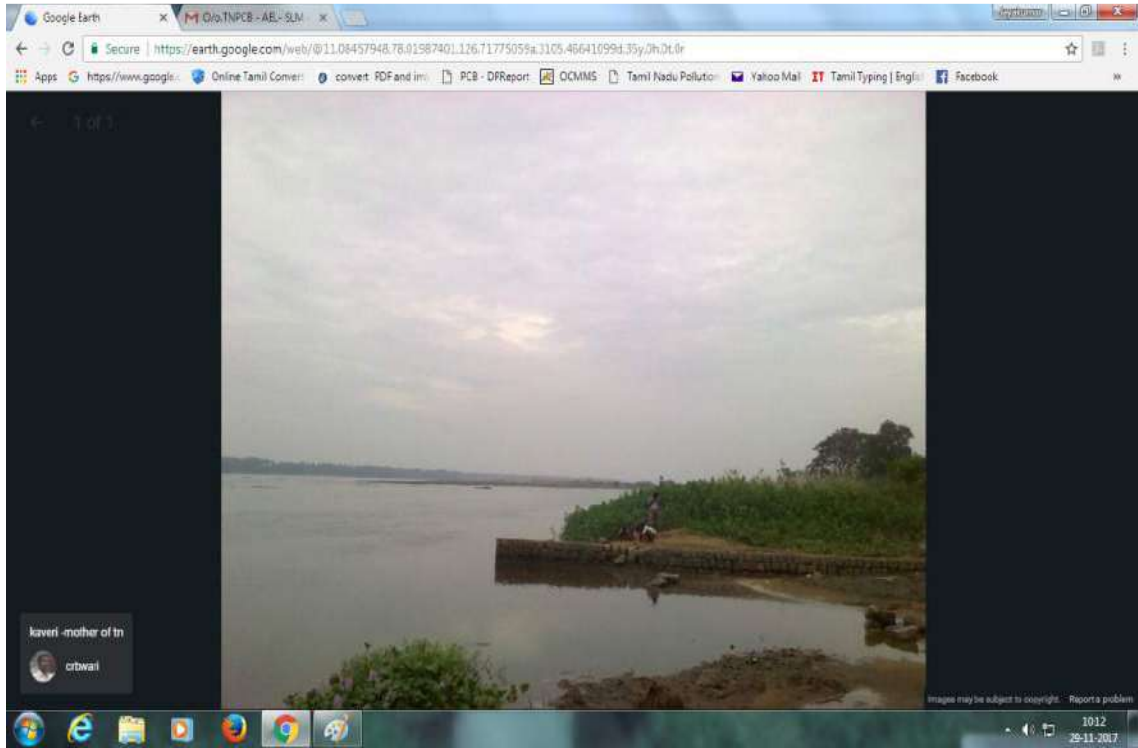
| Sl. No | Taluk | Red | Orange | Green |
|--------|------------------|------------|------------|-----------|
| 1 | Karur | 82 | 143 | 52 |
| 2 | Krishnarayapuram | 13 | 19 | 6 |
| 3 | Kulithalai | 26 | 23 | 5 |
| 4 | Manmangalam | 32 | 25 | 24 |
| | Total | 153 | 210 | 87 |

4.7 River water and drain samples collected details with live photograph:

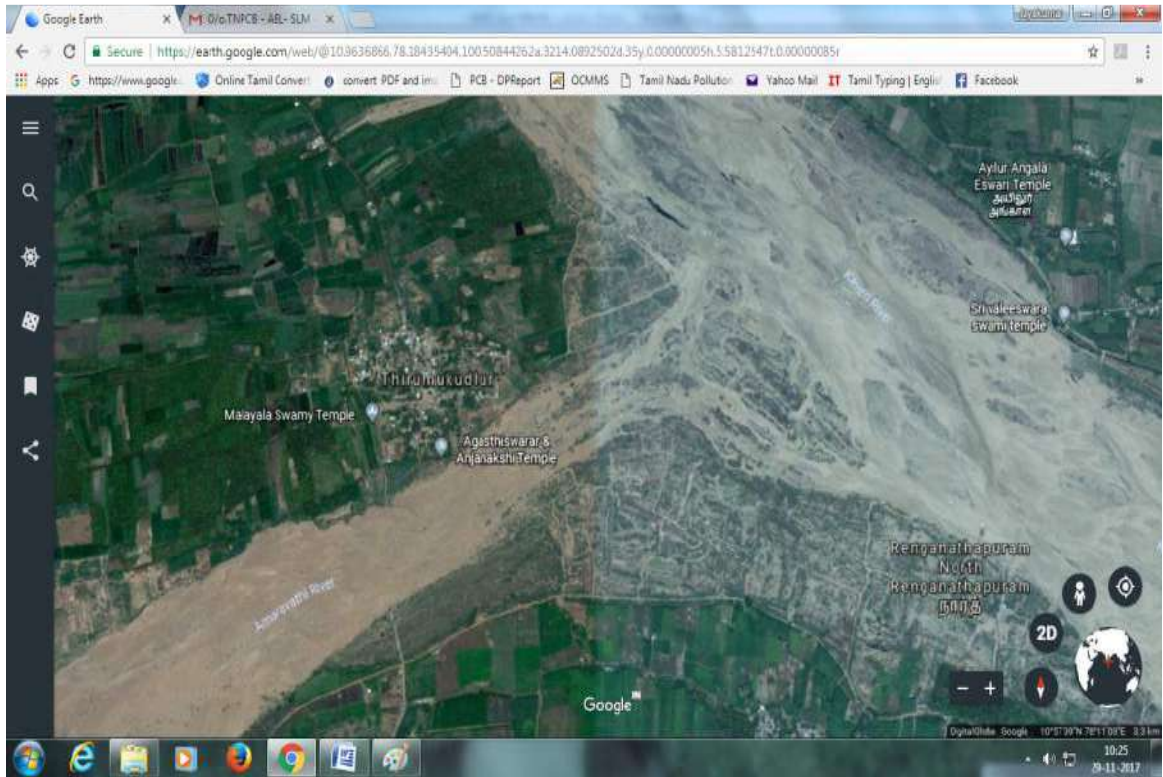
| Sl. No. | Point of collection | GPS coordinates | | Date of sample collection |
|---------|---------------------|--------------------------|--------------------------|---------------------------|
| 1 | Maravapalayam | 11 ⁰ 06'17" N | 77 ⁰ 94'42" E | 02/01/2019 |
| 2 | Kattalai | 10 ⁰ 96'12" N | 78 ⁰ 19'33" E | 02/01/2019 |
| 3 | Kulithalai | 10 ⁰ 95'30" N | 78 ⁰ 42'34" E | 02/01/2019 |

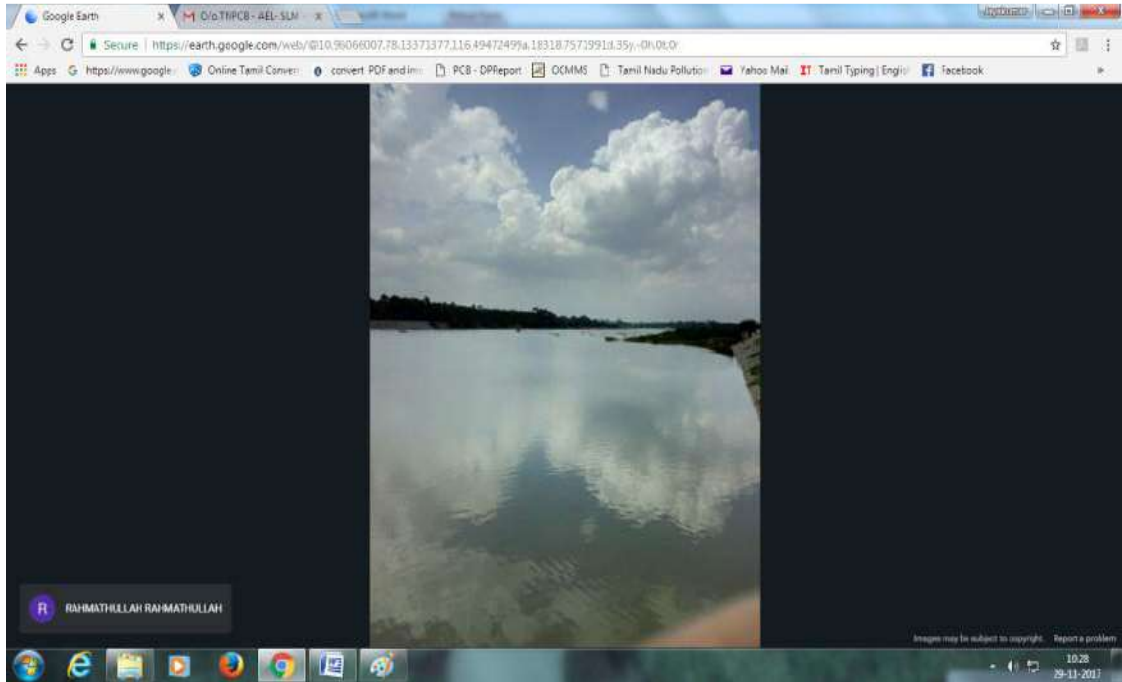
River Cauvery at Pugalur





River Cauvery at Thirumukudalur





River Cauvery after confluence point at Maravapalayam village



4.8 Status of water quality of ground water and drains in the study area:

There is no direct/indirect discharge of effluent (or) sewage into the River stretch in the study area and the sewage discharge from the two local bodies in the River stretch are let out into the channels leading to Agricultural lands for irrigation.

Report of analysis for Cauvery River and drains -Karur District.

| Sl. No | Sample No. | Point of collection | D O | Faecal Coliform | BOD | Cu | Zn | Pb | Cd | Ni | Mn | Fe | T.Cr | Status of compliance with respect to WQC limit |
|--|------------|---------------------|----------|------------------|----------|-------|-------------|------------|-----------|-----------|-----------|-----------|-----------|--|
| | | | mg/l | MPN/100ml | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 1 | 1707 | Maravapalayam | 4.2 | 4 | 6 | 0.046 | <0.00 15 | <0.01 5 | 0.01 8 | 0.09 9 | 0.01 2 | 0.07 6 | <0.0 5 | Complied except DO |
| 2 | 1706 | Kattalai | 7.0 | 1.8 | 2 | 0.052 | <0.00 15 | <0.01 5 | 0.01 2 | 0.07 9 | <0.1 2 | 0.10 2 | <0.0 5 | Complied |
| 3 | 1705 | Kulithalai | 4.3 | 4.5 | 2 | 0.044 | <0.00 15 | <0.01 5 | 0.01 8 | 0.08 8 | <0.1 1 | 0.06 1 | <0.0 5 | Complied except DO |
| Water quality criteria (WQC) limit for Bathing | | | ≥ 5 mg/l | ≤ 500 MPN/100 ml | ≤ 3 mg/l | - | - | - | - | - | - | - | - | - |

4.9 Online Continous River Water Quality Monitoring Station:

Online Continous River Water Quality Monitoring Station is provided at the River Cauvery, the sensors are fixed at the upstream of M/s TNPL Pump House at Kattipalayam Village, adjacent site along the River Cauvery.









4.10 Water drawl and consumption details of Local bodies located at the River stretch

| Sl. No. | Name of the Local Body | Kulithalai Municipality |
|---------|---|-------------------------|
| 1. | Total Population | 27900 |
| 2. | Mode of water supply | Bore Well |
| 3. | Quantity of water supplied | 2510 KLD |
| 4. | Quantity of sewage generated | 2000 |
| 5. | Whether any underground drainage sewerage system with STP facility has been provided. | No |
| 6. | Mode of sewage water treatment | No |
| 7. | Status of STP | Not Provided |
| | Already in operation | - |
| | Under construction | - |
| | Proposed for construction | - |
| 8. | (Present Status of the Proposal) | - |
| | a. Tentative cost – in lakhs | - |
| | b. Expected date of completion | - |
| | Not yet proposed | - |
| 9. | Present mode of disposal of Sewage (Inland water bodies, Irrigation, Channel/ drains leading in River/ water bodies) with GPS co-ordinates. (Indicate no. of location with GPS co-ordinates.) | Inland water bodies |
| 10. | Details of consent issued to local bodies for STPs. | No |
| 11. | If STP is provided details of treatment system. | No |

| | | |
|-----|---|-----|
| 12. | Map showing confluence point(s) of drain at polluted River stretches for each local bodies with GPS co-ordinates. | Nil |
|-----|---|-----|

| Sl. No. | Name of the Local Body | Punjai Pugalur Town Panchayat |
|---------|---|-------------------------------|
| 13. | Total Population | 23408 |
| 14. | Mode of water supply | Bore Well |
| 15. | Quantity of water supplied | 2000 KLD |
| 16. | Quantity of sewage generated | 1600 |
| 17. | Whether any underground drainage sewerage system with STP facility has been provided. | No |
| 18. | Mode of sewage water treatment | No |
| 19. | Status of STP | Not Provided |
| | Already in operation | - |
| | Under construction | - |
| | Proposed for construction | - |
| 20. | (Present Status of the Proposal) | - |
| | c. Tentative cost – in lakhs | - |
| | d. Expected date of completion | - |
| | Not yet proposed | - |
| 21. | Present mode of disposal of Sewage (Inland water bodies, Irrigation, Channel/ drains leading in River/ water bodies) with GPS co-ordinates. (Indicate no. of location with GPS co-ordinates.) | Inland water bodies |
| 22. | Details of consent issued to local bodies for STPs. | No |
| 23. | If STP is provided details of treatment system. | No |
| 24. | Map showing confluence point(s) of drain at polluted River stretches for each local bodies with GPS co-ordinates. | Nil |

4.10a Details of Solid Waste Management in the Local bodies located near the River Stretch

| Sl. No. | Name of the urban local Body | Quantity of solid waste generated and collected (tons/day) | Type of processing carried out (Composting / Vermi-composting/ Biomethanation) | Quantity of solid waste processed in the facility (tons/day) |
|---------|--|--|--|--|
| 1 | Kulithalai Municipality Kulithalai, | 9 MT/Day | Vermi-composting | 9 MT/Day |
| 2 | Punjai Pugalur Town Panchayat Punjai Pugalur, | 5.5 MT/Day | Composting | 5.5MT/Day |

4.11 Operation status of industries type & category wise, consent details and hazardous waste authorization details:

All the Hazardous waste generating industries have Obtained valid Authorisation.

4.12 Status of industry wise water consumption, waste water generation and final mode of industrial effluent discharge:

There is no direct/indirect discharge effluent in to the River stretch from the industries operating in the district.

4.13 Operation status of ETPs

All the units in the district have provided adequate ETP/APC measures.

4.14 Status of installation and operation status of Online Continuous Effluent Monitoring Systems (OCEMS)

| Sl. No. | Name and Address of the unit | Remarks |
|---------|---|--|
| 1. | M/s. Chettinad Cement Corporation Limited, S.F.No. 1583 1586 1587 1588 1589 1590 1591 1592 1593 1607,Puliyur village Karur Taluk, Karur District. | Unit located 5.0 KM from River Cauvery No Trade effluent generation |

| | | |
|----|---|---|
| 2. | M/s. EID Parry Sugar, Punjai Pugalur North Village Karur Taluk, Karur District Pin - 639 113 | Unit located 2.0 KM from River Cauvery Treated trade effluent is utilised for irrigation within the premises. |
| 3. | M/s. Tamil Nadu News Print and Paper Limited, (Paper Plant) Punjai pukalur village,Kagithapuram, Karur Taluk,Karur District Pin- 639136 | The unit is located 3.0 KM away from River Cauvery. Trade effluent generated from the unit is being recycled and utilised for irrigation of agricultural lands located adjacent to the unit. |
| 4. | M/s. Tamil Nadu News Print and Papers Limited, Cement Plant, S.NO.803-805, 807-810,837,838, 840-846, Kagithapuram, Karur Taluk, Karur District. | Unit located 3.0 KM from River Cauvery No Trade effluent generation |
| 5. | M/s. Chettinad Cement Corporation Limited, Captive Power Plant Puliyur Village, Karur Taluk Karur District, Pin - 639 114. | Unit located 5.0 KM from River Cauvery No Trade effluent generation |
| 6. | M/s. Tamil Nadu News Print and Paper Limited, Captive Power Plant Kagithapuram, Karur-136. | The unit is located 3.0 KM away from River Cauvery. Trade effluent generated from the unit is being recycled and utilised for irrigation of agri lands located adjacent to the unit. |
| 7. | M/s. EID Parry (I) Limited, Co Generation Plant Punjai Pugalur Village, Karur Taluk | Unit located 2.0 KM from River Cauvery Treated trade effluent is utilised for irrigation within the premises. |

| | | |
|----|--|---|
| | Karur District. Pin - 639 113. | |
| 8. | M/s. S.M Dyeing Works, SF No 439 ,430 Thirumanilaiyur village, River road, T. sellandipalayam Karur-3. | Unit located 6.0 KM from River Cauvery ZLD system is adopted for effluent treatment. |
| 9. | M/s. Atlas Processing Mills Printing Division, No.1/168 Sivasakthi Nagar Periyandankoil post Manmangalam Taluk, Karur District. | Unit located 6.0 KM from River Cauvery ZLD system is adopted for effluent treatment. |

4.15 Main findings and observations:

No discharge of industrial effluents or drains from the local bodies is observed in the River stretch. The discharge from the Kulithalai municipality is let out into the channel running parallel to the River leading to agricultural lands for irrigation.

Population details of the local body on the River Stretch.

Kulithalai Municipality -27900

Punjai Pugalur Town Panchayat- 23408.

Solid Waste Management:

No dumping of solid waste into River or on the banks was observed.

Consent / Authorization Details:

Kulithalai Municipality STP along the River Stretch is under proposal and Consent applications are awaited from the Municipal authorities.

Solid Waste Facility Authorization Status:

Authorisation was issued to Kulithalai Municipality 20.04.2005.

Authorisation was issued to Punjai Pugalur Town panchayat 20.4.2005.

4.16 Findings on the compliance of the effluent /Sewage discharge norms by the industries:

The Report of analysis of the treated trade effluent samples from the industries reveals that the unit achieves the inland surface water standards prescribed by the Board.

No Sewage out fall points direct/indirect discharge of sewage generated by the local bodies let into River stretch of Karur District. The discharge from the Kulithalai Municipality is let out into the channel running parallel to the River leading to agricultural lands for irrigation. No flow of sewage in upstream of the sampling points.

4.17 General observations and recommendations of the inspection team:

During inspection it is observed that there is no direct/indirect discharge of sewage generated by the local bodies let into River stretch of Karur District. The discharge from the Kulithalai municipality is let out into the channel running parallel to the River leading to agricultural lands for irrigation.

It is recommended that the Local bodies, which are located along the stretch of the River Cauvery, shall prepare DPR for treatment of Sewage as it is presently discharged into irrigation channel which runs parallel to the River.

The TDS of the seepage water in the River Noyyal which confluence with River Cauvery is more than the drinking water standards of 500 mg/l and it is due to dyeing industries in Tirupur. The ZLD system in CETP's and IETP's for dyeing units in Tirupur should ensure 100% recycling.

It is recommended that the Local bodies, which are located along the stretch of the River Cauvery, shall prepare DPR for treatment of Sewage as it is presently discharged into irrigation channel which runs parallel to the River.

4.18 Recommendations- Action plan for the River stretch

Proposed Short Term and Long Term Action Plan for Rejuvenation of River Cauvery in Karur District:

| Sl. No. | Description of Source | Action Plan to control the discharge of industrial trade effluent and City Sewage. | Action to be taken by | Time Target |
|---------|------------------------------------|---|--------------------------|-------------|
| 1 | Industrial Pollution Control | No industrial discharge | TNPCB | - |
| 2 | Sewage Treatment and Disposal plan | <p>Karur District:</p> <p>❖ Kulithalai Municipality</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: Nil • Population: 29580 • Qty of Sewage generated: 2.06 MLD • Status of UGSS: Not Provided • Status of STP: Not Provided • Present Mode of Disposal: • The black water is collected in septic tanks by individual households. <p>Plan of Action:</p> <ul style="list-style-type: none"> ➤ In order to treat the black water, construction of 20KLD Fecal Sludge Treatment Plant work is taken up and is in progress at an estimated cost of Rs.2.85Crore and it will be completed before 31.12.2019 under IUDM 2018-19 fund. ➤ To handle the sullage | Municipal Administration | Dec-2019 |

| | | | | |
|--|--|--|-------------------------------|----------|
| | | <p>water discharged through 3 no. of major channels which confluence with the river stretch, it is proposed to provide in-situ treatment methodology by providing Screen, Grit followed by Horizontal planted gravel filter which will treat the sullage and discharge the treated water into the water course.</p> <ul style="list-style-type: none"> The ULB has prepared detailed estimate for establishing liquid waste treatment facility at a cost of Rs.13.00 lakh. This fund is proposed to be tied up with Capital Grant fund 2019-20 and is expected to be completed by October 2019. | | Oct-2019 |
| | | <p>Karur District:</p> <p>❖ Punjai Pugalur Town Panchayat</p> <ul style="list-style-type: none"> No. of sewage outfall identified: 3 Locations Population: 25935 Qty of Sewage generated: 1.6 MLD Status of UGSS: Not Provided Status of STP: Not Provided <p>Present Mode of Disposal: Sullage water Let out in to Raja Vaikal.</p> | Directorate of Town Panchayat | |

| | | | | |
|---|--|---|--------------------------|-----------|
| | | <p>Plan of Action:</p> <ul style="list-style-type: none"> • Detailed project report have been prepared at an estimated cost of Rs 150.00 Lakhs for treatment and disposal of sullage water by Reed Bed Filter Technology under IUDM for the year 2019-2020. • In Punjai Pugalur Town Panchayat, total Households are 8655. Out of this, 6480 Toilets are available in their own premises. Additionally 122 Houses have been covered under HFA scheme with Toilets. Rest of the people are using 24 No of Community / Public Toilets. | | June-2020 |
| 3 | Solid Waste Management and Disposal Plan | <p>Karur District:</p> <p>❖ Kulithalai Municipality</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: Nil • Population: 29580 • Total Households: 8412 • Qty of MSW Generated: <p>Wet waste: 4 TPD Dry waste: 3 TPD Total: 7 TPD MSW Collection – 100% MSW Segregation – 100% Present Treatment Method:</p> <p>Wet waste: 4TPD</p> <ul style="list-style-type: none"> • Vermi composting – 1 nos. of 4TPD (Completed and | Municipal Administration | |

| | | | | |
|--|--|---|-------------------------------|----------|
| | | <p>functioning)</p> <ul style="list-style-type: none"> On – Site Composting – 5 nos. of 1.0 TPD (Completed and functioning) <p>Dry waste: 3 TPD</p> <ul style="list-style-type: none"> Saleable waste of 1.5TPD sold out to the identified vendors & registers are being maintained. The Non saleable Non Biodegradable waste of 1 TPD is stored in the RRC at Thanneerpalli Inert & Silt -0.5TPD Stored along with C&D waste. Used for Filling Low Lying Areas <p>Proposed Plan of Action:</p> <ul style="list-style-type: none"> Wet Waste: Micro Composting Plant – 2 Nos. of 4 TPD (Will be completed before April 2019-SBM Funds). | | Apr-2019 |
| | | <p>❖ Punjai Pugalur Town Panchayat</p> <ul style="list-style-type: none"> No. of MSW dumping points identified: Nil Population:25935 Qty of MSW Generated: 7.20 TPD Source Collection & Segregation – Yes Treatment method: Windrow composting and Vermi composting <p>Present mode of disposal :</p> | Directorate of Town Panchayat | |

| | | | | |
|----|--|--|------------------------------------|----------|
| | | <ul style="list-style-type: none"> • Wet Waste of 3.70 TPD are processed by Windrow Compost method. • Dry Waste – 2.95 TPD • Recyclable Waste (Plastic, Metal, Rubber etc., 0.55 TPD sold out to the identified vendors. • The Non Recyclable waste of 2.40 TPD periodically disposed. • Inerts & Silt - 0.55 TPD Used in Filling Low Lying Areas. <p>Proposed Plan of Action: Work under progress at an estimate cost of Rs.32 Lakh for Construction of Compound Wall and 0.5 Km Approach Road at Existing Resource Recovery Park Under SBM Fund.</p> | | Sep-2019 |
| 4. | Ground Water Quality | Generally the ground water quality satisfies the prescribed standards. | State Ground Water Authority, CGWB | - |
| 5. | Environmental Flow (E-flow) and Irrigation Practices | <ul style="list-style-type: none"> • Mettur dam is opened for irrigation from June 12th to January 28th based on availability of water. It is opened for drinking purpose in the remaining days. During the monsoon period at flood time the maximum flood discharge in the river has been 284606 | PWD-WRD and Irrigation Department | - |

| | | | | |
|----|------------------------|---|----------------------------------|---|
| | | <p>cusecs on 08.07.1961.</p> <ul style="list-style-type: none"> An extent of 1711258 Acres of land under the jurisdiction of Water Resource Department, Trichy Region is irrigated by River Cauvery. For good irrigation practices to conserve the water, water is supplied to the crops by adopting turn system and on rotational basis. Further awareness has been created among the farmers regarding minimum utilization of water by adopting drip and sprinkler irrigation system and also alternative crops in consultation with the Agriculture and Horticulture Departments. | | |
| 6. | Flood Plain Zone (FPZ) | <ul style="list-style-type: none"> Action will be taken up for eviction of encroachments after identification and demarcation of FPZ with the help of Revenue Department. There is Agricultural Encroachment all along the River Cauvery by the farmers with plantations like Banana, Sugarcane, Turmeric and other cash crops in the Flood Plain Zone (FPZ). Plantation and Biodiversity parks will be formed after | PWD-WRD, Forest Department | - |

| | | | | |
|----|------------------------------------|--|--------------------------------|---|
| | | demarcation of FPZ and removal of encroachments with the help of Revenue Department. | | |
| 7. | Encroachments along the river bank | <ul style="list-style-type: none"> • Encroachments: • Karur District • Taluk – Manmangalam (Nanjaipugalur Village) • Reach in KM from Cauvery RB @ mile 65/2 (104.50 KM) • No. of Encroachment: 65 • Extent (in Ha) – 4.35.0 • Action taken: Notice issued. | PWD-WRD and Revenue Department | - |

4.19 List of non-complying industries details:

Nil

4.20 Conclusion:

It is recommended that the Local bodies, which are located along the stretch of the River Cauvery, shall prepare DPR for treatment of Sewage as it is presently discharged into irrigation channel which runs parallel to the River. The TDS of the seepage water in the River Noyyal which confluence with River Cauvery is more than the drinking water standards of 500 mg/l and it is due to dyeing industries in Tiruppur. The ZLD system in CETP's and IETP's for dyeing units in Tiruppur should ensure 100% recycling.

There is no direct/indirect discharge of effluent (or) sewage into the River stretch in the study area and the sewage discharge from the two local bodies in the River stretch are let out into the channels leading to Agricultural lands for irrigation. Noyyal River is polluted with dyeing effluent discharge from various dyeing and bleaching units located in Tirupur District and hence it is the source of pollution in the River Cauvery in the Karur District. Further the effluent generating

units and local bodies in Karur District are located away from River Cauvery, there is no discharge or drains into the River stream.

The quality of River water in the above stretch can be improved with the following measures:

- ✓ Kulithalai Municipality shall provide Sewage Treatment Plant within the time frame as per the action plan and shall ensure that the entire sewage generated from the local body is treated and disposed off scientifically.
- ✓ Punjaipugalur Town Panchayat shall provide treatment system within the time frame as per the action plan and shall ensure that the entire sullage generated from the local body is treated and disposed off scientifically.
- ✓ Kulithalai Municipality, Punjaipugalur Town Panchayat shall provide solid waste treatment facility within the time frame and shall ensure that the entire solid waste generated from the local body area including solid waste dumped along the River Bank is treated and disposed off scientifically.
- ✓ TNPCB shall ensure that no industrial effluent is discharged in the River at any point of time.

-000-

5.0 TRICHY DISTRICT

5.1 Introduction:

River Cauvery stretch totally covered 45.0 KM in Trichy District. Entry point of the river cauvery is pettavaithalai and exit point is Vengur Village. Regularly GEMS & MINARS samples are being collected at Grand Anaicut, Trichy upstream, Trichy Downsteam, Pettavaithali and Musuri located in the stretch of River Cauvery and sent to Advanced Environmental Laboratory Salem for analysis. In Trichy District River Cauvery covers 20 local bodies such as Trichy city Corporation, three Municipalities and 16 Town Panchayats. No local body is dumping municipal solid waste & discharge sewage in River cauvery.

5.2 The details of River Cauvery flow through City, Town, Villages:

Pettavaithalai, Sirugamani, Perugamani, Elamanur, Thiruparaithurai, Jeeyapuram, Kambarasampettai, Sarkarpalayam, Vengur are lying in the right bank of River Cauvery and Kilapillayarpudur, Sriramasamudram, Kattupudur, Unniyur, Manamedu, Musuri, Ayyanpalayam, Gunaseelam, Amoor, Vathalai, Melur, Srirangam, Thiruvanaikoil, Panaiyapuram, Koutharasanallur, Kilikudu are lying in the left bank of River Cauvery.

Entry point of River Cauvery in Trichy District

Left Bank- Kilapilayarpudur

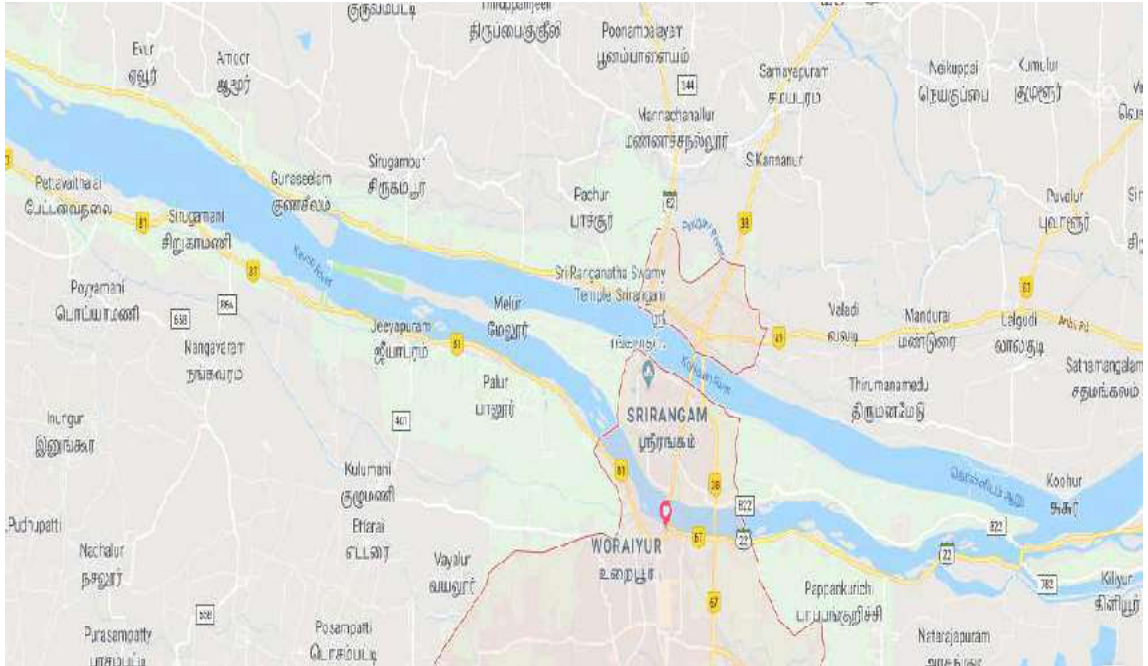
Right Bank- Pettavaithalai

Exit of River Cauvery in Trichy District

Left Bank –KiliKudu

Right Bank –Vengur

CAUVERY RIVER FLOW PATTERN ALONG THE STRETCH OF TRICHY DISTRICT



5.3 Source of Pollution in the river stretch:

There is no industry is functioning and discharging effluent into the river Cauvery.

a. Other Sources:

The Trichy City Corporation is operating a STP with designed capacity 88.64 MLD at K. Sathanoor North Village, Thiruchirapalli East Taluk, Trichy District which is away from 9 Km from the river Cauvery. The sewage is treated in the STP and discharge into river Koraitay. Trichy Corporation yet to start construction for the phase –II and phase –III of the Sewage Treatment Plant.

In Trichy District there is no discharge of effluent /drain into the river Cauvery. During the time of inspection with the scientist from the Tamil Nadu Pollution Control Board, DEL, Trichy and Assistant Engineer in the following places the bore well samples were collected:

1. Thogur Village near Grand Anaicut
2. Musuri Ferry gate, Musuri Town

Also, the local bodies located nearby the river stretch Sirugamani Town Panchayat and Musuri Town panchayat are disposing their sewage for irrigation purpose.

5.4 Water drawl and consumption details of Local bodies located at the River stretch

| Sl. No. | Name of the Local Body | Sirugamani Town Panchayat |
|----------------|---|--|
| 1. | Total Population | 12462 |
| 2. | Mode of water supply | River Cauvery |
| 3. | Quantity of water supplied | 8.90 Lakh Litre |
| 4. | Quantity of sewage generated | 4.4 Lakh Litre |
| 5. | Whether any underground drainage sewerage system with STP facility has been provided. | No |
| 6. | Mode of sewage water treatment | No |
| 7. | Status of STP | Not Provided |
| | Already in operation | - |
| | Under construction | - |
| | Proposed for construction | - |
| 8. | (Present Status of the Proposal) | - |
| | e. Tentative cost – in lakhs | - |
| | f. Expected date of completion | - |
| | Not yet proposed | - |
| 9. | Present mode of disposal of Sewage (Inland water bodies, Irrigation, Channel/ drains leading in river/ water bodies) with GPS co-ordinates. (Indicate no. of location with GPS co-ordinates.) | Not discharged into river/Water bodies |
| 10. | Details of consent issued to local bodies for STPs. | No |
| 11. | If STP is provided details of treatment system. | No |
| 12. | Map showing confluence point(s) of drain at polluted river stretches for each local bodies with GPS co-ordinates. | Nil |

| Sl. No. | Name of the Local Body | Musuri Town Panchayat |
|----------------|---|--|
| 13. | Total Population | 28727 |
| 14. | Mode of water supply | River Cauvery |
| 15. | Quantity of water supplied | 2.4MLD |
| 16. | Quantity of sewage generated | 0.8MLD |
| 17. | Whether any underground drainage sewerage system with STP facility has been provided. | No |
| 18. | Mode of sewage water treatment | No |
| 19. | Status of STP | Not Provided |
| | Already in operation | - |
| | Under construction | - |
| | Proposed for construction | - |
| 20. | (Present Status of the Proposal) | - |
| | g. Tentative cost – in lakhs | - |
| | h. Expected date of completion | - |
| | Not yet proposed | - |
| 21. | Present mode of disposal of Sewage (Inland water bodies, Irrigation, Channel/ drains leading in river/ water bodies) with GPS co-ordinates. (Indicate no. of location with GPS co-ordinates.) | Not discharged into river/Water bodies |
| 22. | Details of consent issued to local bodies for STPs. | No |
| 23. | If STP is provided details of treatment system. | No |
| 24. | Map showing confluence point(s) of drain at polluted river stretches for each local bodies with GPS co-ordinates. | Nil |

5.5 Details of Solid Waste Management in the Local bodies located near the River Stretch

| Sl. No. | Name of the urban local Body | Quantity of solid waste generated and collected (tons/day) | Type of processing carried out (Composting/ Vermi-composting / Biomethanation) | Quantity of solid waste processed in the facility (tons/day) |
|---------|---|--|--|--|
| 1. | Pettavaithali Sirugamani Town Panchayat | 2.0 MT/Day | Bio Compost and Vermi-composting | 2.0 MT/Day |
| 2. | Musuri Town Panchayat | 10.5 MT/Day | Vermi Composting | 10.5MT/Day |

No solid wastes are dumped in the River Cauvery or on the banks in Trichy District.

5.6 Inspection team details:

| Sl. No. | Name TVL | Designation | Office |
|---------|--------------------|--------------|-----------------|
| 1 | Thiru.N.Ramanathan | Dy CSO (lab) | AEL, Trichy |
| 2 | Mrs.Tamarai Selvi | Dy CSO | AEL, Trichy |
| 3 | B.Ahalya | AE | O/o DEE, Trichy |

5.6a Details of sample collection from industries:

There is no industry is functioning and discharging effluent into the river Cauvery.

5.6b Ground water samples collected details along the River Stretch(Borewell,dug well etc.,)

| Sl. No. | Point of collection | GPS coordinates | | Date of sample collection |
|---------|---------------------|--------------------|--------------------|---------------------------|
| 1 | Thogur Village | 10 ⁰ 50 | 78 ⁰ 49 | 03/01/2019 |
| 2 | Musuri | 10 ⁰ 40 | 78 ⁰ 27 | 03/01/2019 |

5.7 Riverwater samples collected details with live photograph:

| Sl. No. | Point of collection | GPS coordinates | | Date of sample collection |
|---------|-------------------------------------|--------------------|--------------------|---------------------------|
| 1 | Grand Anicut | 10 ⁰ 50 | 78 ⁰ 49 | 03/01/2019 |
| 2 | Trichy Down Stream- Ammamandapam | 10 ⁰ 45 | 78 ⁰ 38 | 03/01/2019 |
| 3 | Trichy upstream- Mukkambu | 10 ⁰ 40 | 78 ⁰ 40 | 03/01/2019 |
| 4 | Pettavaithalai | 10 ⁰ 54 | 78 ⁰ 29 | 03/01/2019 |
| 5 | Musuri | 10 ⁰ 40 | 78 ⁰ 27 | 03/01/2019 |



River sample collected at Grand Anicut



Bore well sample collected at Thogur Village near Grand Anaicut



River sample collected at Downstream- Padithurai



River sample collected at Upstream Mukkambu



River sample collected at Pettavaithalai



Bore well sample collected at Musuri Ferry Gate



River sample collected at Musuri

5.8 Status of quality of ground water and drains in the study area:

Report of analysis of Ground Water

| Sl. No | Sam ple No. | Point of collection | SO ₄ | Fluor ide | O& G | Cu | Zn | Pb | Cd | Ni | Mn | Fe | T.Cr | Status of complianc e with respect to WQC limit |
|--|-------------|---------------------|-----------------|-----------|-------|-------|-------------|------------|-------------|------------|-----------|-----------|-----------|---|
| | | Unit | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 1 | 1699 | Thogur Village | 58 | <1 | <1 | 0.043 | <0.001 5 | <0.0 15 | <0.0 008 | <0.0 06 | <0.0 1 | 0.02 3 | <0.0 5 | Complied |
| 2 | 1703 | Musiri | 40 | <1 | <1 | 0.051 | <0.001 5 | <0.0 15 | <0.0 008 | <0.0 06 | <0.0 1 | 0.14 8 | <0.0 5 | Complied |
| IS10500-2012 Drinking water specifications- Acceptable limit (in mg/l) | | | 200 | 1.0 | 0.5 * | 0.05 | 5 | 0.01 | 0.003 | 0.02 | 0.1 | 0.3 | 0.05 | |

Note: Generally in case of ground water samples, concentration less than or equal to <1 mg/l is indicated as BDL by TNPCB laboratories. But as per BIS Drinking water specifications, mineral oil content of sampling points exceed the limit of 0.5 mg/l.

Report of analysis for Cauvery River Water and Drains -Tiruchy District.

| Sl. No | Sam ple No. | Point of collection | DO | Faec al Colif orm | BOD | Cu | Zn | Pb | Cd | Ni | Mn | Fe | T.Cr | Status of complianc e with respect to WQC limit |
|--|-------------|-----------------------------------|----------|-------------------|----------|-------|-------------|------------|-----------|-----------|-----------|-----------|-----------|---|
| | | Unit | mg/l | MPN / 100 MI | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 1 | 1698 | Grand Anicut | 6.2 | 12 | 2 | 0.038 | <0.001 5 | <0.0 15 | 0.02 1 | 0.07 8 | <0.1 | 0.02 1 | <0.0 5 | Complied |
| 2 | 1700 | Trichy Downstream - Ammamand apam | 4.8 | 6.1 | 2 | 0.048 | <0.001 5 | 0.12 2 | 0.01 6 | 0.08 9 | <0.1 | 0.05 6 | <0.0 5 | Complied except DO |
| 3 | 1701 | Trichy upstream- Mukkambu | 4.7 | 4 | 2 | 0.032 | <0.001 5 | <0.0 15 | 0.02 | 0.07 2 | <0.1 | 0.03 3 | <0.0 5 | Complied except DO |
| 4 | 1702 | Pettavaithala i | 4.9 | 2 | 3 | 0.050 | <0.001 5 | <0.0 15 | 0.02 3 | 0.07 5 | <0.1 | 0.05 5 | <0.0 5 | Complied except DO |
| 5 | 1704 | Musiri | 4.6 | 2 | 3 | 0.050 | <0.001 5 | <0.0 15 | 0.01 7 | 0.08 3 | <0.0 1 | 0.18 2 | 0.588 | Complied except DO |
| Water quality criteria (WQC) limit for Bathing | | | ≥ 5 mg/l | ≤ 500 MPN /100 ml | ≤ 3 mg/l | - | - | - | - | - | - | - | - | - |

5.9 Assessment of Compliance of the effluents/sewage discharge norms by the industries in study area.

| Sl. No. | City/Town/District | Name and address of the STP | STP Location | STP Commissioned in (Year) | Status (Operational/ Non – operational/Under construction) | STP Installed Capacity | Actual utilization Capacity | Technology (UASB/ ASP/ OP/SBR/ MBR/FAB etc. | Water Supply (Lpcd) | Disposal (Land, River, Sea or any other) | Consent Status |
|---------|--------------------|--|--------------------|----------------------------|--|------------------------|-----------------------------|---|---------------------|--|---|
| 1. | Trichy | M/s Trichy Corporation Sewage treatment plant ,K.Sathanur Village, Srirangam Taluk, Trichy District. | K.Sathanur Village | 2007 | Unit is under operation | 88.64 MLD | 55.97 MLD | UASB | 47,250 KLD | Used for tree plantation. | CTE was issued on 03.08.2005 and valid up to 02.08.2007 |

There is no sewage outfall points in the River Cauvery, Trichy District.

There is no trade effluent outfall points in the River Cauvery, Trichy District.

5.10 Operation status of industries type & category wise, consent details and hazardous waste authorization details:

MSW Authorization:

Corporation

1. Trichy City Corporation - Authorization issued.

Municipality

1. Thuraiyur
 2. Manapparai
 3. Thuvakudy
- } Authorization issued.

Town Panchayat

1. S.Kannanur Town Panchayat
 2. Mannachanallur Town Panchayat
 3. Lalgudi Town Panchayat
 4. Musuri Town Panchayat
- } Authorization issued

5.11 Status of industry wise water consumption, waste water generation and final mode of industrial effluent discharge:

The Trichy City Corporation is operating a STP with designed capacity 88.64 MLD at K. Sathanoor North Village, Thiruchirapalli East Taluk, Trichy District which is away from 9 Km from the river Cauvery .Sewage is treated in the STP and utilized for green belt development. Trichy Corporation yet to start construction for the phase –II and phase –III of the Sewage Treatment Plant.

5.12. Operation status of ETPs:

There is no industry is functioning and discharging effluent into the river Cauvery.

5.13. Status of installation and operation status of online continuous Effluent Monitoring Systems (OCEMS):

There is no industry is functioning and discharging effluent into the river Cauvery.

5.14. Main findings and observations:

During inspection, it was found that there is no sewage/trade effluent / solid waste dumping in the river Cauvery. However, during inspection 2 bore well water samples were collected and sent to AEL, TNPCB,Trichy to assess the quality of ground water.

5.15. Findings on the compliance of the effluent /Sewage discharge norms by the industries.

There is no industry is functioning and discharging effluent into the river Cauvery.

5.16. General observations and recommendations of the inspection team

During inspection it is observed that there is no discharge of sewage/trade effluent by the local bodies/industries let into river in the river stretch of Trichy District.

It is recommended that the Sirugamani and Musuri Town Panchayat located stretch of the River Cauvery, shall prepare DPR for treatment of Sewage and it is presently used for irrigation purpose.

5.17. Recommendations- Action plan of the River stretch

Proposed Short Term and Long Term Action Plan for Rejuvenation of River Cauvery – Trichy District:

| Sl. No. | Description of Source | Action Plan for Rejuvenation of River Cauvery | Organisation/ Agency Responsible for Execution of the Action Plan | Time Target |
|----------------|------------------------------------|--|--|--------------------|
| 1. | Industrial Pollution Control | No industrial discharge | TNPCB | - |
| 2. | Sewage Treatment and Disposal plan | <ul style="list-style-type: none"> ❖ Trichy District: ❖ Trichy Corporation • No. of sewage outfall identified: Nil • Population: 1054859 • Qty of Sewage generated: 105.24 MLD • Status of UGSS: Under Ground Sewerage scheme work is completed fully in 24 wards and partially in 25 wards. • Status of STP: STP capacity of 58MLD and treated sewage water let out as per GOI norms. • Present mode of Disposal: Treated through Sewage Treatment Plant. • Plan of Action: | Municipal Administration | |

| | | | | |
|--|--|---|-------------------------------|---|
| | | <ul style="list-style-type: none"> To cover the remaining 41 wards (16 wards fully & 25 wards partially) under AMRUT scheme Under Ground Sewerage scheme workin 2 phases were taken up for implementation. Of which one phase will have a 37MLD capacity STP and it is expected to be completed by June 2021 and Phase-II will be completed by June 2022. | | <p>Phase-I June-2021 Phase-II June-2022</p> |
| | | <ul style="list-style-type: none"> ❖ Musiri Town Panchayat No. of sewage outfall identified: 4 Locations Population: 28727 Qty of Sewage generated: 0.80 MLD Status of UGSS: Not Provided Status of STP: Not Provided <p>Present Mode of Disposal: Sullage Water let out into Mettu Vaikal.</p> <p>Plan of Action:</p> <ul style="list-style-type: none"> Detailed project report have been prepared at an estimated cost of Rs 570.00 Lakhs for treatment and disposal of sullage water by Eco Ozotex Technology under IUDM for the year 2019-20. <ul style="list-style-type: none"> Musiri Town Panchayat, total households are 8622. Out of this, 6397 toilets are available in their own premises. Additionally 212 houses have been covered under HFA scheme with toilets. Rest of the people are using 31 Nos. of Community/Public Toilets. | Directorate of Town Panchayat | June-2020 |

| | | | | |
|----|--|---|-------------------------------|-----------|
| | | <p>❖ Sirugamani Town Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: 8 locations • Population: 10743 • Qty of Sewage generated: 0.440 MLD • Status of UGSS: Not Provided • Status of STP: Not Provided <p>Present Mode of Disposal: Sullage Water let out into PuttuAiyandar Vaikal, Kallu vaikkal & Periya Vaikkal.</p> <p>Plan of Action:</p> <ul style="list-style-type: none"> • Detailed project report have been prepared at an estimated cost of Rs. 525.00 Lakhs for treatment and disposal of sullage water by Eco Ozotex / Dry Land process Technology under IUDM for the year 2019-20. • In Sirugamani Town Panchayat, total households are 3212. Out of this, 2706 toilets are available in their own premises. Additionally 191 houses have been covered under HFA scheme with toilets. Rest of the people are using 9 No. of Community / Public Toilets. | Directorate of Town Panchayat | June-2020 |
| 3. | Solid Waste Management and Disposal Plan | <p>❖ Trichy Corporation</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: Nil • Population: 1054859 • Total households: 235576 • Qty of MSW Generated: | Municipal Administration | |

| | | | | |
|--|--|--|--|--|
| | | <p>Wet waste: 222 TPD Dry waste: 168 TPD Total: 390 TPD MSW Collection – 100% MSW Segregation – 92% Present Treatment Method:</p> <p>Wet waste: - 222 TPD</p> <ul style="list-style-type: none"> • Bio Methanation Plant – 2Nos. Of 7 TPD - Functioning Gas used in Community kitchen & Crematorium • On – Site Composting – 28 Nos of 10 TPD (Completed and put to use) • Windrow Composting – 50 TPD - Functioning <p>Dry waste: - 168 TPD</p> <ul style="list-style-type: none"> • Other saleable waste (Plastic, Rubber, Metal etc.) of 101 Tonne sold out to the identified vendors & registers are being maintained. • The Non saleable, Non Biodegradable waste of 50 TPD is stored in the RRC at all MCCs in 31 Locations & Periodically disposed to Ultra Tech Ariyalur. • Inert and Silt 17 TPD Stored along with C&D waste. Used for Filling Low Lying Areas <p>Proposed Plan of Action:</p> <p>Wet-waste:</p> <ul style="list-style-type: none"> • Micro Composting Plant – 34 Nos. of 168 TPD (29 MCCs put to use and 5 MCCs will be completed before April 2019-SBM funds) | | <p>100% will be achieved before 30.06.19</p> <p>April-2019</p> |
|--|--|--|--|--|

| | | | | |
|--|--|--|-------------------------------|-----------|
| | | <p>Dry waste:</p> <ul style="list-style-type: none"> Bio mining of Ariyamangalam Dump yard –SMART City funds-will be completed in June 2021. | | June-2021 |
| | | <p>❖ Musiri Town Panchayat</p> <ul style="list-style-type: none"> No. of MSW dumping points identified: Nil Population: 28727 Qty of MSW Generated: 10.50 TPD Source Collection & Segregation – Yes Treatment method: Windrow & Vermi composting Present mode of disposal : Wet Waste of 6.350 TPD are processed by Windrow Compost method. (Per Day) Dry Waste – 4.150 TPD Recyclable waste (plastic, metal, rubber etc., 1.700 TPD sold out to the identified vendors. The Non Recyclable waste of 0.270 TPD periodically disposed to Ariyalur Cement Factory Inerts & Silt -2.180 TPD Used in Filling Low Lying Areas. <p>Proposed Plan of Action:</p> <ul style="list-style-type: none"> Work Order Issued at an Estimate Cost of Rs.113.53 Lakhs for Disposal of Historical Waste by Bio-Mining Method Under SBM Fund. Collection, segregation, treatment, disposal are under implementation | Directorate of Town Panchayat | Dec-2019 |

| | | | | |
|----|----------------------|--|-------------------------------|---|
| | | in accordance with Municipal Solid Waste management Rules 2016. | | |
| | | <ul style="list-style-type: none"> ❖ Sirugamani Town Panchayat • No. of MSW dumping points identified: Nil • Population: 10743 • Qty of MSW Generated: 2.76 TPD • Source Collection & Segregation – Yes • Treatment method: Windrow & Vermi composting • Present mode of disposal : • Wet Waste of 1.29 TPD are processed by Windrow Compost method. (Per Day) • Dry Waste – 1.47TPD • Recyclable waste (plastic, metal, rubber etc.0.25TPD sold out to the identified vendors. • The Non Recyclable waste of 0.940 TPD periodically disposed. • Inerts & Silt -0.28 TPD Used in Filling Low Lying Areas. <p>Proposed Plan of Action: Nil Solid waste facility provided. Collection, segregation, treatment, disposal are under implementation in accordance with Municipal Solid Waste management Rules 2016.</p> | Directorate of Town Panchayat | |
| 4. | Ground Water Quality | Generally the ground water quality satisfies the prescribed standards. | State Ground Water Authority, | - |

| | | | | |
|----|--|--|-----------------------------------|---|
| | | | CGWB | |
| 5. | Environmental Flow (E-flow) and Irrigation Practices | <ul style="list-style-type: none"> • Mettur dam is opened for irrigation from June 12th to January 28th based on availability of water. It is opened for drinking purpose in the remaining days. During the monsoon period at flood time the maximum flood discharge in the river has been 284606 cusecs on 08.07.1961. • An extent of 1711258 Acres of land under the jurisdiction of Water Resource Department, Trichy Region is irrigated by River Cauvery. For good irrigation practices to conserve the water, water is supplied to the crops by adopting turn system and on rotational basis. Further awareness has been created among the farmers regarding minimum utilization of water by adopting drip and sprinkler irrigation system and also alternative crops in consultation with the Agriculture and Horticulture Departments. | PWD-WRD and Irrigation Department | - |
| 6. | Flood Plain Zone (FPZ) | <ul style="list-style-type: none"> • Action will be taken up for eviction of encroachments after identification and demarcation of FPZ with the help of Revenue Department. • There is Agricultural Encroachment all along the River Cauvery by the farmers with plantations like | PWD-WRD, Forest Department | - |

| | | | | |
|----|------------------------------------|--|--------------------------------|---|
| | | <p>Banana, Sugarcane, Turmeric and other cash crops in the Flood Plain Zone (FPZ).</p> <ul style="list-style-type: none"> Plantation and Biodiversity parks will be formed after demarcation of FPZ and removal of encroachments with the help of Revenue Department. | | |
| 7. | Encroachments along the river bank | <ul style="list-style-type: none"> Encroachments: Trichy District Taluk – Thottiyam (Sriramasamudram Village) Reach in KM from Cauvery LB @ mile 84/4 (135 KM) No. of Encroachment: 2 Extent (in Ha) – 0.0047 Action taken: Encroachments evicted Trichy District Taluk – Thottiyam (Varatharajapuram Village) Reach in KM from Cauvery LB @ mile 90/2 (144 KM) and 92/1 (147 KM) No. of Encroachment: 2 Extent (in Ha) – 0.0018 Action taken: Encroachments evicted. | PWD-WRD and Revenue Department | - |

5.18. List of non-complying industries details

Nil

5.19. Conclusion:

The quality of River water in the above stretch can be improved with the following measures:

- ✓ Trichy Corporation shall provide additional Sewage Treatment Plant within the time frame as per the action plan and shall ensure that the entire sewage generated from the local body is treated and disposed off scientifically.
- ✓ Musiri and Sirugamani Town Panchayat shall provide treatment system within the time frame as per the action plan and shall ensure that the entire sullage generated from the local body is treated and disposed off scientifically.
- ✓ Trichy Corporation, Musiri and Sirugamani Town Panchayat shall provide solid waste treatment facility within the time frame and shall ensure that the entire solid waste generated from the local body area is treated and disposed off scientifically.
- ✓ TNPCB shall ensure that no industrial effluent is discharged in the River at any point of time.

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6.0 THANJAVUR DISTRICT

6.1 Introduction – River Cauvery in Thanjavur District

The River Cauvery enters into Thanjavur District at Thohur village of Thanjavur District in the co-ordinates of latitude 10°49'49"N and longitude 79° 49'08" E. The River Cauvery flows through Budalur Taluk, Thiruvaiyaru Taluk, Thanjavur Taluk, Papanasam Taluk and Thiruvaidaimaruthur Taluk and leaves Thanjavur District at Narasinganpettai village in the co-ordinates of latitude 12°31'42.92"N and longitude 75° 59'37.06" E and enters into Nagapattinam District.

The total length of River Cauvery in Thanjavur District is 82.7 km. Grand Anicut (Kallanai Dam) is the first regulator across the River Cauvery in Thanjavur District in Thohur village. River Coleroon, River Cauvery, River Vennar and Grand Anicut canal branches from Kallanai Regulator.

6.2 Details of Dams and Regulators across the RiverCauvery in Thanjavur District:

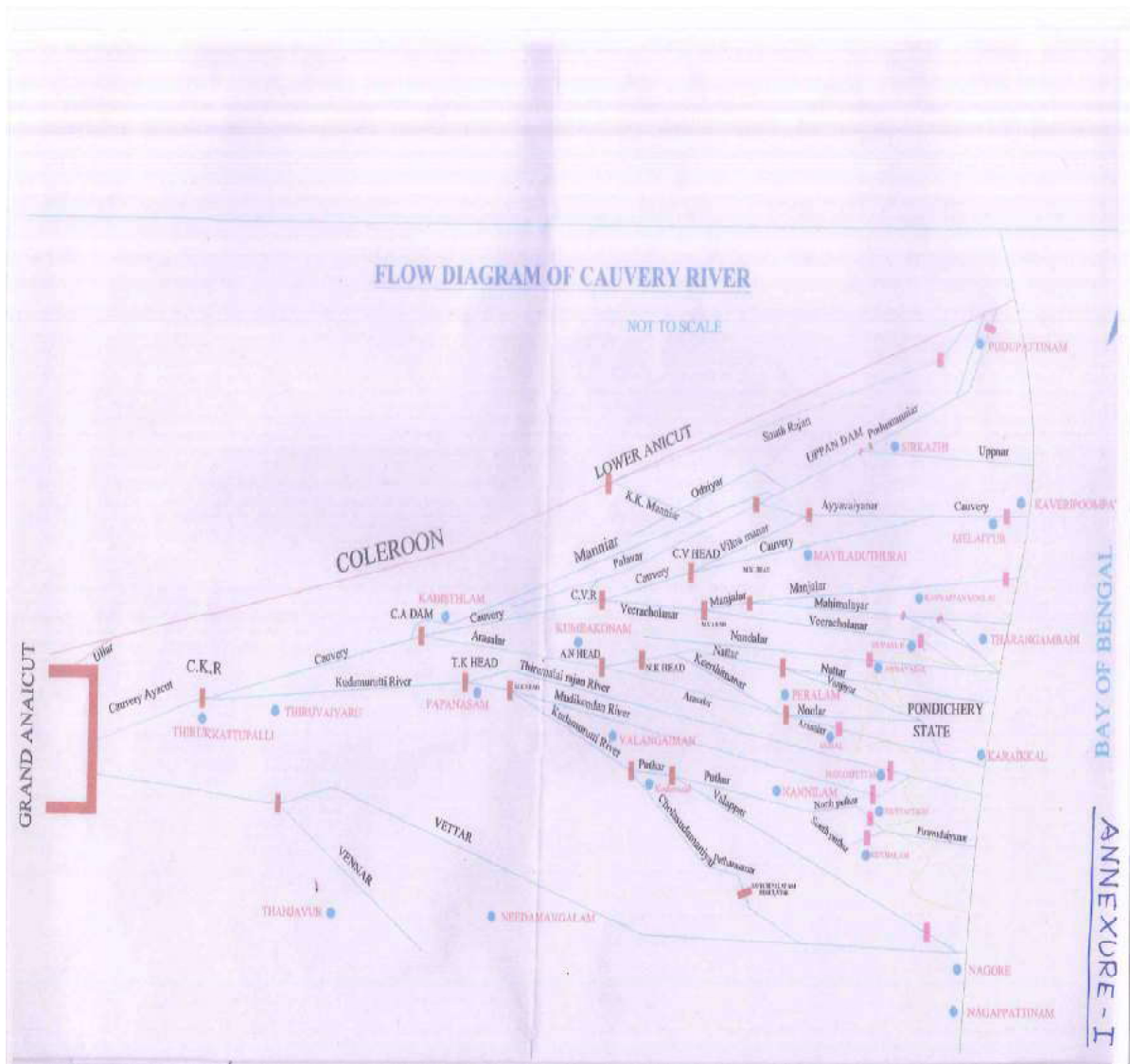
| Sl.No. | Dams/Regulators | Branching Rivers | Place |
|---------------|---------------------------------|--|---------------------------|
| 1. | Grand Anicut (Kallanai Dam) | River Coleroon, River Cauvery, River Vennar and Grand Anicut canal | Thohur |
| 2. | Cauvery - Kudamurutti Head | River Cauvery and River Kudamurutti | Thirukattuppalli |
| 3. | Cauvery – Arasalaru Dam | River Cauvery and River Arasalaru | Kabisthalam Mettuthuru |
| 4. | Cauvery – Veeracholan Regulator | River Cauvery and River Veeracholan | Mananchery |

River Cauvery enters at the western end of Thanjavur district and flows in the Eastern direction and enters into Nagapattinam district. There are no tributories which joins in the River Cauvery. There are distributaries branch out from Cauvery as below:

6.3 Tributaries branch out from Main River Cauvery:

| Sl. No. | Dams/Regulators | Distributories |
|---------|---------------------------------|---|
| 1. | At Grand Anicut (Kallanai Dam) | i). River Coleroon, ii). River Vennar and iii). Grand Anicut canal. |
| 2. | At Cauvery - Kudamurutti Head | Kudamurutti River. |
| 3. | Cauvery – Arasalaru Dam | Arasalaru. |
| 4. | Cauvery – Veeracholan Regulator | Veeracholan River. |

(Map of River Stretch in Annexure I is enclosed)



6.4 Sources of Pollution in Cauvery River Stretch in Thanjavur

District

The River Cauvery flowing through Thanjavur district is categorized as stretch - II (Mettur to Mayiladuthurai) stretch.

1. There is no water polluting industries located adjacent to the River Cauvery in the stretch of Thanjavur District.
2. There are some towns and villages located adjacent to the River in the stretch and part of the domestic sewage from a few towns flow into the River through drainages and pipelines.

The following Towns and Villages are located adjacent to River Cauvery and the status of domestic sewage discharge is as follows;

1. Thirukattupalli Town Panchayat. - Part of the sewage is discharged into the River Cauvery.
2. Thiruvaiyaru Town Panchayat. - Part of the sewage is discharged into the River Cauvery.
3. Veppathur Town Panchayat. - No sewage is discharged into river.
4. Swamimalai Town Panchayat. - No sewage is discharged into river.
5. Aduthurai Town Panchayat. - No sewage is discharged into river.

6.5 River Cauvery passing through the following villages:

| | | |
|----|-------------------|--|
| 1. | Thohur | No significant discharge of sewage into River. |
| 2. | Koviladi | |
| 3. | Thiruchanampoondi | |
| 4. | Nemam | |
| 5. | Pazhamarneri | |
| 6. | Pavanamangalam | |
| 7. | Thirupazhanam | |
| 8. | Neelatthanallur | |
| 9. | Sathyamangalam | |

| | | |
|-----|------------------|--|
| 10. | Kabisthalam | |
| 11. | Thiyagasmudram | |
| 12. | Agaratthur | |
| 13. | Kadaiyaanikkaadu | |
| 14. | Thirumangalakudi | |
| 15. | Narasinganpettai | |

6.6 Details of sample collection in River Cauvery:

The team comprising the following officials have inspected the sewage outfalls in River Cauvery on 02.01.2019 and collected samples of river water in those places. Ground waters were also collected nearby the River.

| Sl. No. | Officials | Office |
|----------------|--|--|
| 1. | Deputy Chief Scientific Officer, AEL, Trichy. | Advanced Environmental Laboratory, Trichy, Tamil Nadu Pollution Control Board. |
| 2. | Deputy Chief Scientific Officer, Trichy | Advanced Environmental Laboratory, Trichy, Tamil Nadu Pollution Control Board. |
| 3. | District Environmental Engineer, | Tamil Nadu Pollution Control Board, Thanjavur. |

The River samples and ground water samples were collected on 02.01.2019 by the above scientific team accompanied by the District Environmental Engineer, Thanjavur and the samples were sent for analysis for various parameters including metals, bacteriological etc., the details of sample collection points are tabulated as below:

6.7 Sample Collection Photographs

Collection of Water Samples from River Cauvery, Thanjavur District.



1. Town Sewage drainage outfall, Padithurai, Thirukkattupalli, Thanjavur District.



2. Ration Shop Padithurai, Near Regulator, Thirukkattupalli, Thanjavur District.



3. Pipe outfall near ARC Complex, Thiruvaiyaru.



4. Near ARC Complex, 15th Mandapam Street, Thiruvaiyaru, Thanjavur District.



5. Pipe outfall near Govt. College Hostel, Thiruvaiyaru.



6. Behind Govt. College Hostel, Thiruvaiyaru, Thanjavur District.



7. Near Mangala Vinayagar Temple Padithurai, Thiruvaiyaru.



8. Near Mahamaham Padithurai, Kumbakonam.



9. Near Aduthurai Nellaimarathu Puthadi Mariamman Koil Near Bridge.

10. Hand Pump Hear ARC Complex, Thiruvaiyaru.





11. Near Mangala Vinayagar Temple Padithurai Hand Pump (in the background),
Thiruvaiyaru.



12. Bore well Apartment Near Mahamagam Padithurai, Kumbakonam.



13. Hand Pump Near Aduthurai Nellaimarathu Puthadi Mariamman Koil Near Bridge,



14. Collection of Water in Brown Bottle. Aduthurai

6.8 Sample Collection locations:

| Sl. No. | Point of Collection | GPS Coordinates | | Observation |
|---------|--|------------------------|------------------------|--|
| 1. | In River Cauvery upstream of regulator, Ration shop, Padithurai, Palamarneri salai, Thirukattupalli. | 78°57'34.89"E | 10°51'30.86"N | River Water, Near domestic sewage outfall. |
| 2. | In River Cauvery backside of ARC Complex, 15 th Mandapam Street, Thiruvaiyaru. | 79°06'36.40"E | 10°52'35.48"N | River Water, Near domestic sewage discharged into River |
| 3. | Handpump in ARC Complex, Thiruvaiyaru. | 79°57'36.40"E | 10°52'35.47"N | Ground water. |
| 4. | In River Cauvery backside of Government College Hostel Padithurai, Thiruvaiyaru. | 79°85'90.16"E | 10°87'95"N | River Water, Near domestic sewage discharged into River. |
| 5. | In River Cauvery Mangala Vinayagar Temple Padithurai, Thiruvaiyaru. | 79°92'60.37"E | 10°92'15"N | River Water |
| 6. | Borewell at Mangala Vinayagar Temple Padithurai, Thiruvaiyaru. | 79°93'52.62"E | 10°94'48"N | Ground water. |
| 7. | In River Cauvery at Mahamagam Padithurai, Kumbakonam. | 79.2342 ^o E | 10.9322 ^o N | River Water. |
| 8. | Borewell at Cauvery | | | |

| | | | | |
|-----|--|------------------------|-----------------------|---------------|
| | karai Apartment, (Near at Mahamagam Padithurai, Kumbakonam). | 79.3817 ^o E | 10.956 ^o N | Ground water. |
| 9. | In River Cauvery Nellaimarathu puthadi Mariamman Kovil, (Near bridge) Aduthurai. | 79°28'44.9"E | 11°00'57.5"N | River Water |
| 10. | Hand pump, Near Nellaimarathu puthadi Mariamman Kovil, Aduthurai. | 79°28'40.1"E | 11°00'05.5"N | Ground Water |

6.9 Status of quality of ground water and drains in the study area

Report of analysis of ground water:

| Sl. No | Sam ple No. | Point of collection | SO 4 | Fluoride | O& G | Cu | Zn | Pb | Cd | Ni | Mn | Fe | T.Cr | Status of compliance with respect to WQC limit |
|---|-------------|--|-------|----------|-------|-------|---------|--------|---------|--------|------|-------|-------|--|
| | | Unit | mg /l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 1 | 1667 | ARC Complex, Thiruvaiyaru | 48 | 0.644 | <1 | 0.011 | <0.0015 | <0.015 | <0.0008 | <0.006 | <0.1 | <0.05 | <0.05 | complied |
| 2 | 1671 | Mangalavinayagar Temple, Thiruvaiyaru | 47 | <1 | <1 | 0.033 | <0.0015 | <0.015 | <0.0008 | <0.006 | <0.1 | 0.156 | <0.05 | complied |
| 3 | 1673 | Borewell near Mahamagam Padithurai, Kumbakonam | 55 | 0.196 | <1 | 0.048 | <0.0015 | <0.015 | <0.0008 | <0.006 | <0.1 | 0.076 | <0.05 | complied |
| 4 | 1675 | Hand pump at Aduthurai, Thanjavur | 29 | 0.021 | <1 | 0.027 | <0.0015 | <0.015 | <0.0008 | <0.006 | <0.1 | 0.144 | <0.05 | complied |
| IS10500-2012 Drinking water specifications-Acceptable limit (in mg/l) | | | 200 | 1.0 | 0.5 * | 0.05 | 5 | 0.01 | 0.003 | 0.02 | 0.1 | 0.3 | 0.05 | |

Report of analysis of Cauvery River Water and drains –Thanjavur District

| Sl. No | Sam ple No. | Point of collection | DO | Faecal Coliform | BOD | Cu | Zn | Pb | Cd | Ni | Mn | Fe | T.Cr | Status of compliance with respect to WQC limit |
|--|-------------|---|----------|------------------|----------|-----------|-------------|------------|-----------|-----------|-----------|-----------|-----------|--|
| | | Unit | mg/l | MPN/100MI | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 1 | 1666 | U/s River Cauvery, Thirukattupalli | 6.1 | 11 | 4 | 0.02 3 | 0.006 | <0.0 15 | 0.01 7 | 0.07 1 | 0.33 | 0.00 6 | <0.0 5 | Complie d except BOD |
| 2 | 1668 | ARC Complex, Thiruvaiyaru | 5.4 | 22 | 4 | 0.03 3 | 0.011 | <0.0 15 | 0.01 3 | 0.10 1 | 0.69 | 0.42 | <0.0 5 | Complie d except BOD |
| 3 | 1669 | Govt.College Hostel, Thiruvaiyaru | 5.0 | 3.6 | 2.0 | 0.02 6 | <0.001 5 | <0.0 15 | 0.00 6 | 0.04 9 | 0.23 | <0.0 5 | <0.0 5 | Complie d |
| 4 | 1670 | Mangalavinayagar Temple, Thiruvaiyaru | 5.1 | 13 | 3.0 | 0.01 4 | <0.001 5 | <0.0 15 | 0.01 4 | 0.07 8 | 0.19 | <0.0 5 | <0.0 5 | Complie d |
| 5 | 1672 | Magagama Padithurai, Kumbakonam | 4.8 | 1.8 | 2.0 | 0.04 2 | <0.001 5 | 0.64 | 0.00 4 | 0.08 8 | 0.02 5 | 0.04 3 | <0.0 5 | Complie d except DO |
| 6 | 1674 | Nellaimarathu Puthadi Mariamman Koil, Aduthurai | 5.0 | 4 | 3.0 | 0.04 8 | <0.001 5 | <0.0 15 | 0.01 4 | 0.11 1 | 0.01 2 | <0.0 5 | <0.0 5 | Complie d |
| Water quality criteria (WQC) limit for Bathing | | | ≥ 5 mg/l | ≤ 500 MPN/100 ml | ≤ 3 mg/l | - | - | - | - | - | - | - | - | - |

6.10 District Area wise Details of Industries in Thanjavur District.

A. Details of Industries:

| Sl.No. | Taluk | Red | Orange | Green | Total |
|--------|---------------------|-----|--------|-------|-------|
| 1. | Budalur | 11 | 19 | 20 | 50 |
| 2. | Kumbakonam | 8 | 115 | 36 | 159 |
| 3. | Orathanadu | 5 | 8 | 7 | 20 |
| 4. | Papanasam | 13 | 21 | 5 | 39 |
| 5. | Pattukkotturai | 8 | 56 | 16 | 80 |
| 6. | Peravurani | 2 | 13 | 1 | 16 |
| 7. | Thanjavur | 16 | 177 | 45 | 238 |
| 8. | Thiruvaiyaru | 2 | 10 | 1 | 13 |
| 9. | Thiruvaidaimaruthur | 13 | 21 | 7 | 41 |
| | Total | 78 | 440 | 138 | 656 |

B. Details of Industries located in the Taluks where the river passes:

| Type of units | Bhudalur | Kumbakonam | Papanasam | Thanjavur | Thiruvaiyaru | Thiruvidaimarthur | Total |
|---------------|----------|------------|-----------|-----------|--------------|-------------------|-------|
| 77 | 50 | 159 | 39 | 238 | 13 | 41 | 540 |

There are no industries adjacent to the River Cauvery and there is no discharge of trade effluent into River Cauvery.

Sewage outfall points in the River with GPS coordinates.

In Thanjavur District, there are two sewage outfall points generated by the local bodies of Thirukkattuppalli and Thiruvaiyaru Town panchayats let into the River Cauvery.

| Sl. No. | Point of Collection | GPS Coordinates | | Observation |
|---------|--|-----------------|---------------|---|
| 1. | In River Cauvery upstream of regulator, Ration shop, Padithurai, Palamarneri salai, Thirukattupalli. | 78°57'34.89"E | 10°51'30.86"N | Domestic sewage outfall into River Cauvery. |
| 2. | In River Cauvery backside of ARK Complex, 15 th Madapam Street, Thiruvaiyaru. | 79°06'36.40"E | 10°52'35.48"N | Domestic sewage outfall into River Cauvery. |
| 3. | In River Cauvery backside of Government College Hostel Padithurai, Thiruvaiyaru. | 79°85'90.16"E | 10°87'95"N | Domestic sewage discharged into River. |

There are outfall points in the upstream of sampling points.

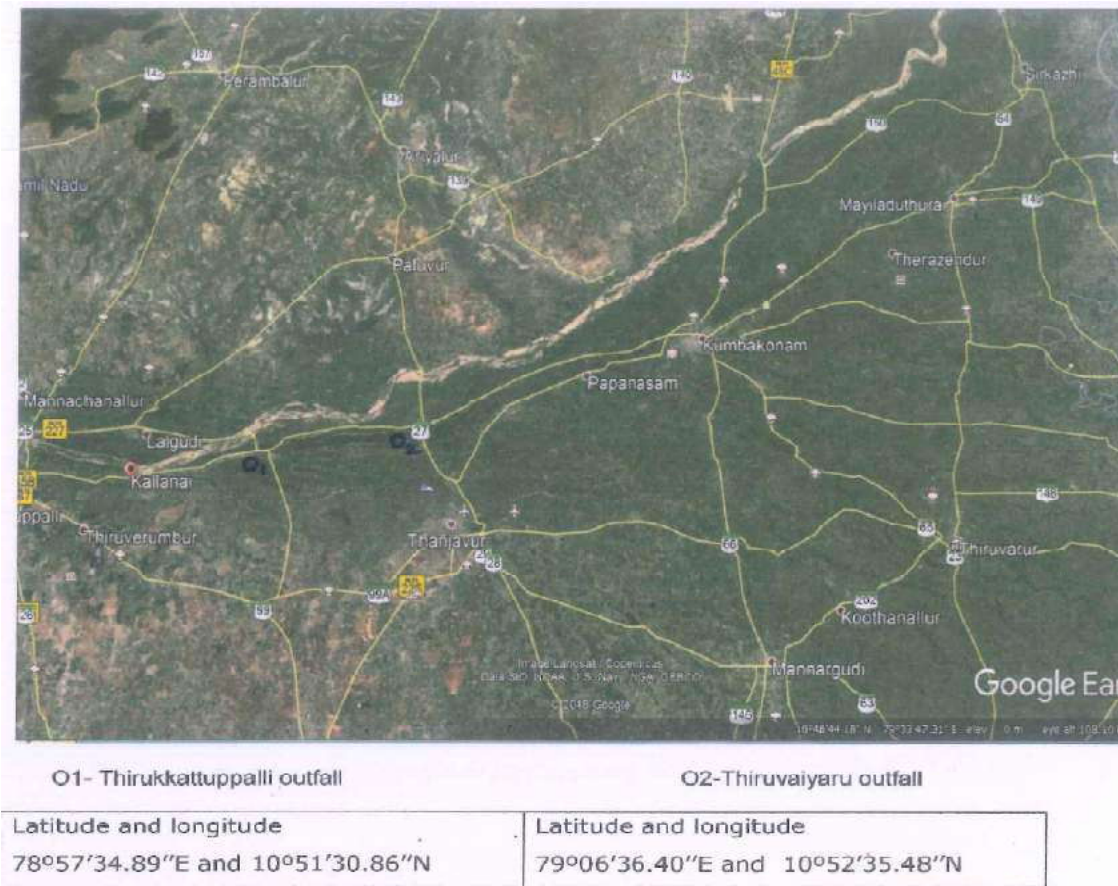
There is no discharge of treated sewage in to the River Cauvery in this stretch.

There is no discharge of Effluents in to the River Cauvery in this stretch.

Flow of sewage in upstream of the sampling point:

There are some flow of sewage in the upstream of the sampling points in Thirukkattuppalli and Thiruvaiyaru Town panchayats.

Map showing the Sewage out-fall points in the River Cauvery in Thanjavur District



Details on Consent/Authorization issued by the Board for the establishment of the STP/ Solid waste facility.

a) Sewage Treatment plants details in Thanjavur District.

| Sl. No. | Name of the Local Body | Consent Details |
|---------|---------------------------------|--|
| 1. | Thanjavur Municipal Corporation | CTE- 03/08/2004 CTO 03/08/2015 RCOValid up to 30.09.2017 |

| | | |
|----|---------------------------|--|
| 2. | Kumbakonam Municipality | CTO -10/09/2009 RCO Valid up to 31.03.2015 |
| 3. | Orathanadu Town Panchayat | CTE-22/12/2014 CTO-27/04/2016 Valid upto 31/03/2017 |
| 4. | Vallam Town Panchayat | CTE 20.05.2013 CTE EXT Valid upto 31.03.2018 |

Remaining one Municipality and 20 Town Panchayats have not installed Sewage Treatment plants.

6.11 Sewage Treatment Plants (STP) Functioning in

Thanjavur District:

| Sl. No. | Name | Discharge |
|----------------|--|--|
| 1. | STP –Thanjavur Municipal Corporation (With Underground Drainage System) | Treated sewage discharged into Samudram Eri. |
| 2. | STP – Kumbakonam Municipal Corporation (With Underground Drainage System) | Treated sewage discharged into Thepperumanallur channel. |
| 3. | STP – Orathanadu Town Panchayat | Discharged on land for irrigation in vertinary farm. |

Status of functioning of STPs:

| Sl.No. | Name of the Local Body | Status of STPs |
|---------------|---------------------------------|------------------------|
| 1. | Thanjavur Municipal Corporation | STP functioning |
| 2. | Kumbakonam Municipality | STP functioning |
| 3. | Orathanadu Town Panchayat | STP functioning |
| 4. | Vallam Town Panchayat | STP under construction |

Remaining one Municipality and 20 Town Panchayats have not installed Sewage Treatment plants.

6.12 General Observations:

1. There are no STPs functioning near River Cauvery.
2. There is no industrial discharge into River Cauvery.
3. Two of the Town Panchayats are discharging a part of town sewage into the River Cauvery (Thirukattupalli Town Panchayat and Thiruvaiyaru Town Panchayat). The remaining sewage is discharged into irrigation canals.
4. Other Town Panchayats are not discharging the sewage in the River Cauvery, but discharges into the irrigation canals in the respective Town Panchayats.

6.13 Solid Waste Management:

- 1) Thanjavur Municipality has a compost yard at Jebamalaipuram where solid wastes are collected and composted.
- 2) Kumbakonam Municipality has a compost yard at Thepperumaanallur where Bio-mining of Solid Waste is carried out.
- 3) There are no solid waste disposal sites near River Cauvery in this stretch.
- 4) In Kumbakonam, the public dump the domestic solid waste near the bank of River in some places.

Status of functioning of Solid waste facilities:

| Sl. No. | Name of the urban local Body(Corporation / Municipality / Town Panchayat) | Status of functioning of solid waste facility |
|----------------|--|--|
| 1 | Thanjavur Corporation, Thanjavur | Bio composting carried out |
| 2 | Kumbakonam Municipality, Kumbakonam | Bio mining carried out |
| 3 | Pattukottai Municipality, Pattukottai. | Bio composting carried out |
| 4 | Town Panchayat, Vallam, Thanjavur District. | Bio composting and vermin composting carried out |
| 5 | Town Panchayat, Orathanadu, Thanjavur District. | Bio composting carried out |

| | | |
|----|--|---|
| 6 | Town Panchayat, Aduthurai, Thanjavur District. | Bio composting and vermin composting carried out |
| 7 | Town Panchayat, Papanasam, Thanjavur District. | Bio composting carried out |
| 8 | Town Panchayat, Darasuram, Kumbakonam Taluk, Thanjavur District. | Bio composting carried out |
| 9 | Town Panchayat, Veppathur, Thiruvudaimaruthur Taluk, Thanjavur District | Bio composting carried out |
| 10 | Town Panchayat, Peravurani, Thanjavur District. | Bio composting carried out |
| 11 | Town Panchayat, Madukkur, Pattukottai Taluk, Thanjavur District. | Bio composting carried out |
| 12 | Town Panchayat, Thirubuvanam, Thiruvudaimaruthur Taluk, Thanjavur District. | Bio composting carried out |
| 13 | Town Panchayat, Thiruvudaimaruthur, Thanjavur District. | Bio composting carried out |
| 14 | Town Panchayat, Ayyampettai, Thanjavur District. | Bio composting carried out |
| 15 | Town Panchayat, Adirampattinam, Pattukottai Taluk, Thanjavur District. | Bio composting carried out |
| 16 | Town Panchayat, Perumagalur, Thanjavur District. | Bio composting carried out |
| 17 | Town Panchayat, Thirupanadal, Thiruvudaimaruthur Taluk, Thanjavur District. | Bio composting carried out |
| 18 | Town Panchayat, Thirunageshwaram, Kumbakonam Taluk Thanjavur District. | Bio composting carried out |
| 19 | Town Panchayat, Melattur, Thanjavur District. | Bio composting carried out |
| 20 | Town Panchayat, | Bio composting |

| | | |
|----|--|---|
| | Melathiruppathuraithi, Thiruvaiyaru Taluk, Thanjavur District. | carried out |
| 21 | Town Panchayat, Thirukkattupalli, Thanjavur District. | Bio composting and vermin composting carried out |
| 22 | Town Panchayat, Swamimalai, Thanjavur District. | Bio composting carried out |
| 23 | Town Panchayat, Cholapuram, Thanjavur District. | Bio composting carried out |
| 24 | Town Panchayat, Thiruvaiyaru, Thanjavur District. | Bio composting carried out |
| 25 | Town Panchayat, Ammapettai, Papanasam Taluk, Thanjavur District | Bio composting carried out |

Authorisation status for solid waste treatment facility in Thanjavur District.

| Sl. No. | Name of the urban local Body(Corporation / Municipality / Town Panchayat) | Status of MSW Authorisation |
|----------------|--|------------------------------------|
| 1 | Thanjavur Corporation, Thanjavur | Not issued |
| 2 | Kumbakonam Municipality, Kumbakonam | Not issued |
| 3 | Pattukottai Municipality, Pattukottai. | Not issued |
| 4 | Town Panchayat, Vallam, Thanjavur District. | Not issued |
| 5 | Town Panchayat, Orathanadu, Thanjavur District. | Not issued |
| 6 | Town Panchayat, Aduthurai, Thanjavur District.. | Not issued |
| 7 | Town Panchayat, Papanasam, Thanjavur District. | Not issued |
| 8 | Town Panchayat, | Not issued |

| | | |
|----|---|----------------------|
| | Darasuram, Kumbakonam Taluk, Thanjavur District. | |
| 9 | Town Panchayat, Veppathur, Thiruvudaimaruthur Taluk, Thanjavur District | Not issued |
| 10 | Town Panchayat, Peravurani, Thanjavur District. | Not issued |
| 11 | Town Panchayat, Madukkur, Pattukottai Taluk, Thanjavur District. | Not issued |
| 12 | Town Panchayat, Thirubuvanam, Thiruvudaimaruthur Taluk, Thanjavur District. | Not issued |
| 13 | Town Panchayat, Thiruvudaimaruthur, Thanjavur District. | Not issued |
| 14 | Town Panchayat, Ayyampettai, Thanjavur District. | Not issued |
| 15 | Town Panchayat, Adirampattinam, Pattukottai Taluk, Thanjavur District. | Not issued |
| 16 | Town Panchayat, Perumagalur, Thanjavur District. | Not issued |
| 17 | Town Panchayat, Thirupanadal, Thiruvudaimaruthur Taluk, Thanjavur District. | Not issued |
| 18 | Town Panchayat, Thirunageshwaram, Kumbakonam Taluk Thanjavur District. | Not issued |
| 19 | Town Panchayat, Melattur, Thanjavur District. | Issued 31.03.2010 |
| 20 | Town Panchayat, Melathiruppathuraithi, Thiruvaiyaru Taluk, Thanjavur District. | Issued 31.03.2010 |
| 21 | Town Panchayat, Thirukkattupalli, Thanjavur District. | Issued 31.03.2010 |
| 22 | Town Panchayat, | Issued |

| | | |
|----|--|----------------------|
| | Swamimalai, Thanjavur District. | 31.03.2010 |
| 23 | Town Panchayat, Cholapuram, Thanjavur District. | Issued 31.03.2010 |
| 24 | Town Panchayat, Thiruvaiyaru, Thanjavur District. | Issued 31.03.2010 |
| 25 | Town Panchayat, Ammapettai, Papanasam Taluk, Thanjavur District | Issued 31.03.2010 |

6.14 Recommendations – Action Plan for the River Stretch:

Proposed Short Term and Long Term Action Plan for Rejuvenation of River

Cauvery in Thanjavur District:

| Sl. No. | Description of Source | Action Plan for Rejuvenation of River Cauvery | Organisation/ Agency Responsible for Execution of the Action Plan | Time Target |
|---------|------------------------------------|---|---|-------------|
| 1. | Industrial Pollution Control | No industrial discharge | TNPCB | - |
| 2. | Sewage Treatment and Disposal plan | Thanjavur District: ❖ Kumbakonam Municipality • No. of sewage outfall identified: Nil • Population: 142143 • Total households: 36105 • Qty of Sewage generated: 12.80 MLD • Status of UGSS: • Under Ground Sewerage scheme work is completed in 45 wards with 1 no. of 17.00 MLD capacity STP and the treated sewage water is let out as per | Municipal Administration | |

| | | | | |
|--|--|--|-------------------------------|-----------|
| | | <p>GOI norms.</p> <ul style="list-style-type: none"> • Status of STP: Provided • Present mode of Disposal: Treated through STP with capacity 17.0 MLD • Plan of Action: • To cover the left out portions of all 45 wards, under AMRUT scheme Under Ground Sewerage scheme work is in progress with rehabilitation of STP is also under progress and it will be completed before June 2020. | | June-2020 |
| | | <p>❖ Thirukattupalli Town Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: 1location • Population: 12972 • Qty of Sewage generated: 0.001 MLD • Status of UGSS: Not Provided • Status of STP: Not Provided • Present Mode of Disposal of Sewage: • Sullage water let out in to Cauvery river. • Individual households having septic tank/soak pit arrangements. • Plan of Action: Nil | Directorate of Town Panchayat | |

| | | | | |
|----|--|---|-------------------------------|---------------------------------------|
| | | <p>❖ Thiruvaiyaru Town Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: 1 location • Population: 16164 • Qty of Sewage generated: 0.001 MLD • Status of UGSS: Not Provided • Status of STP: Not Provided • Present Mode of Disposal of Sewage: • 1000 Litre of Sullage water is treated by sand filtration method and treated water disposed into Raja nagar B2 PWD Irrigation cannal. • Individual households having septic tank/soak pit arrangements. <p>Plan of Action: Nil</p> | Directorate of Town Panchayat | |
| 3. | Solid Waste Management and Disposal Plan | <p>❖ Kumbakonam Municipality</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: Nil • Population: 142143 • Total households: 36105 • Qty of MSW Generated: <p>Wet waste: 41 TPD Dry waste: 29 TPD Total: 70 TPD MSW Collection – 95% MSW Segregation – 80%</p> <p>Present Treatment Method: Wet waste:</p> | Municipal Administration | 100% will be achieved before 30.06.19 |

| | | | | |
|--|--|--|-------------------------------|--|
| | | <p>Bio Methanation Plant -1No of 5TPD - Functioning</p> <p>Dry waste:</p> <ul style="list-style-type: none"> • Saleable waste of 17TPD sold out to the identified vendors & registers are being maintained. • The Non saleable Non Biodegradable waste of 9 TPD is stored in the RRC at Karikulam and periodically disposed to M/s Ultra tech Cement • Inert & Silt-3TPD Stored along with C&D waste. Used for Filling Low Lying Areas • Biomining – Completed - Total garbage removed 2,00,000 Cum and Land reclaimed 12 Acres at Karikulam <p>Proposed Plan of Action:</p> <p>Wet Waste of 41 TPD are processed as below:</p> <ul style="list-style-type: none"> • Micro Composting Plant – 5 Nos. of 20 TPD (Will be completed before April 2019- SBM Funds). • On – Site Composting – 41 nos. of 17 TPD (Will be completed before April 2019). | | |
| | | <p>❖ Thirukattupalli Town Panchayat</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: 1Location | Directorate of Town Panchayat | |

Apr-2019

| | | | | |
|--|--|--|--|------------------|
| | | <ul style="list-style-type: none"> • Population: 12972 • Qty of MSW Generated: 5.30 TPD <p>Source Collection & Segregation – Yes</p> <p>Treatment method: Windrow composting</p> <p>Present Mode of MSW Disposal:</p> <p>Wet Waste of 3.40TPD are processed by Windrow Compost method.</p> <p>Dry Waste – 1.90 TPD</p> <ul style="list-style-type: none"> • Recyclable waste (plastic, metal, rubber etc., 0.15 TPD sold out to the identified vendors. • The Non Recyclable waste of 0.95TPD periodically disposed. • Inerts & Silt -0.80 TPD Used in Filling Low Lying Areas. <p>Plan of Action:</p> <ul style="list-style-type: none"> • Estimate prepared at an estimated cost of Rs 70.00 Lakhs for disposal of Dumped waste under Bio mining method. The fund will be dovetailed under SBM for the year 2019-2020. • Work under progress at an estimat cost of RS.52.30 Lakh for providing 2/3 roof of Windrow Shed and Compound Wall under SBM Fund. | | <p>June-2020</p> |
|--|--|--|--|------------------|

| | | | | |
|--|--|---|-------------------------------|----------|
| | | | | |
| | | <p>❖ Thiruvaiyaru Town Panchayat</p> <ul style="list-style-type: none"> No. of MSW dumping points identified: Nil Population: 16164 Qty of MSW Generated: 5.30 TPD <p>Source Collection & Segregation – Yes</p> <p>Treatment method: Windrow & Vermi composting</p> <p>Present Mode of MSW Disposal:</p> <ul style="list-style-type: none"> Wet Waste of 3.40TPD are processed by Windrow Compost method. Dry Waste – 1.90 TPD Recyclable waste (plastic, metal, rubber etc., 0.15 TPD sold out to the identified vendors. The Non Recyclable waste of 0.95TPD periodically disposed. Inerts & Silt -0.80 TPD Used in Filling Low Lying Areas. <p>Plan of Action:</p> <p>Work under progress at an estimat cost of RS.151 Lakh for Bio Mininig for disposal of Historical waste, Providing 2/3 roof Windrow Shed, Compound Wall and Watch Man Shed Under SBM Fund.</p> | Directorate of Town Panchayat | Sep-2019 |

| | | | | |
|----|--|--|------------------------------------|---|
| 4. | Ground Water Quality | Generally the ground water quality satisfies the prescribed standards. | State Ground Water Authority, CGWB | - |
| 5. | Environmental Flow (E-flow) and Irrigation Practices | <ul style="list-style-type: none"> • Mettur dam is opened for irrigation from June 12th to January 28th based on availability of water. It is opened for drinking purpose in the remaining days. During the monsoon period at flood time the maximum flood discharge in the river has been 284606 cusecs on 08.07.1961. • An extent of 1711258 Acres of land under the jurisdiction of Water Resource Department, Trichy Region is irrigated by River Cauvery. For good irrigation practices to conserve the water, water is supplied to the crops by adopting turn system and on rotational basis. Further awareness has been created among the farmers regarding minimum utilization of water by adopting drip and sprinkler irrigation system and also alternative crops in consultation with the Agriculture and Horticulture Departments. | PWD-WRD and Irrigation Department | - |
| 6. | Flood Plain Zone (FPZ) | <ul style="list-style-type: none"> • Action will be taken up for eviction of encroachments after | PWD-WRD, Forest | - |

| | | | | |
|----|------------------------------------|--|--------------------------------|---|
| | | <p>identification and demarcation of FPZ with the help of Revenue Department.</p> <ul style="list-style-type: none"> • There is Agricultural Encroachment all along the River Cauvery by the farmers with plantations like Banana, Sugarcane, Turmeric and other cash crops in the Flood Plain Zone (FPZ). • Plantation and Biodiversity parks will be formed after demarcation of FPZ and removal of encroachments with the help of Revenue Department. | Department | |
| 7. | Encroachments along the river bank | <ul style="list-style-type: none"> • Encroachments: • Thanjavur District -Nil | PWD-WRD and Revenue Department | - |

6.15 Conclusion:

There are no discharges of industrial waste water into River Cauvery, in Thanjavur District of Tamil Nadu.

- Water samples have been collected from 10 nos of stations in this Cauvery river stretch of Thanjavur District.
- Out of the above ten sampling points, three sampling points located in two Town Panchayats (i.e), Thirukattupalli Town Panchayat and Thiruvaiyaru Town Panchayat are discharging part of the sewage into river Cauvery. These two Town Panchayats have to prevent the flow of part of the sewage from its area. Hence these two Town Panchayats shall have to install Sewage Treatment Plants to treat the total quantity of sewage generated from its jurisdictional areas so as to stop the discharge of sewage into the river.

- The remaining three Town Panchayats ie., Swamimalai, Aduthurai and Veppathur are not directly discharging sewage into river Cauvery. Since, these local bodies are also located on the banks of the river Cauvery these Town Panchayats shall also install STPs to treat the sewage generated from their jurisdictional areas so as to ensure the untreated discharge of sewage either directly or indirectly into the river.

There are no discharges of industrial waste water into River Cauvery, in Thanjavur District of Tamil Nadu. There is no major quantity of sewage discharge into River Cauvery.

The two Town Panchayats (i.e). Thirukattupalli Town Panchayat and Thiruvaiyaru Town Panchayat have to prevent the flow of part of the sewage from its area (i.e).Some habitations located near River Cauvery. These two Town Panchayats may install Sewage Treatment Plants to treat the total sewage generated from its jurisdictional areas.

The Kumbakonam Municipality may ensure the prevention of disposal of solid waste by the public on the river banks in its Municipal area.

The quality of River water in the above stretch can be improved with the following measures:

- ✓ Kumbakonam Municipality shall complete and operate the Sewage Treatment Plant within the time frame as per the action plan and shall ensure that the entire sewage generated from the local body is treated and disposed off scientifically.
- ✓ Thirukattupalli Town Panchayat and Thiruvaiyaru Town Panchayats shall ensure that the sewage generated is handled in the treatment system provided and there is no discharge of sewage into River Cauvery.
- ✓ Kumbakonam Municipality, Thirukattupalli Town Panchayat and Thiruvaiyaru Town Panchayat shall provide solid waste treatment facility within the time frame and shall ensure that the entire solid waste generated from the local body area is treated and disposed off scientifically.

7.0 Nagapattinam District

7.1 Introduction about River Cauvery

Nagapattinam District lies in the Tailend of Cauvery Delta System. The terrain of the district is plain and the eastern boundary is coastal line of Bay of Bengal. In Nagapattinam District River Cauvery Flows from Thiruvallangadu Village, Kuttalam Taluk and ends to Poombuhar Village, Sirkali Taluk. The total length of River Cauvery in Nagapattinam District is 43.97 KM.

The details on the tributaries of River Cauvery

| Sl.No. | Tributaries | Origin | Confluence with the River Cauvery |
|---------------|--------------------|-----------------|--|
| 1 | Viramanar | Thiruvallangadu | Korkkai |
| 2. | Manjalar | Sathanur | Annapanpetai |
| 3. | Mahimalaiyar | Mallarpettai | Kannappanmoolai |
| 4. | Veeracholanar | Sathanur | Devanur |
| 5. | Nandalar | Komal | Chandrapadi |

The River passes through Kuttalam Taulk, Mayiladuthurai Taluk, Tharangambadi Taulk and Sirkali Taluk of Nagapattinam District.

River Cauvery flows from Thiruvallangadu village of Kuttalam Block through the following Villages Mathirimangalam, Kuttalam, Sethirabalapuram, Kolikuthi, Mayiladuthurai Block, Moovalur, Sitharkadu, Mapadugai, Mailaduthurai Town, Manakudy, Dharmapuram, Mannampandal, Sembanarkoil Block, Melapathi, Kidarankondan, Sirkali Block, Melaiyur and reaches Bay of Bengal at Poombuhar, Sirkalai Taluk of Nagapattinam District.

Local bodies identified in the river stretch Cauvery River in Nagapattinam District are some of village panchayat in Kuthalam Panchayat union, Kuthalam Town Panchayat, Mayiladuthurai Municipality, some of villages in Mayiladuthurai Panchayat union, Sembanarkovil Panchayat union and Sirkali Panchayat union.

There are 7 Nos. of regulators and 5 Nos. bed dams were located in River Cauvery Mayiladuthurai stretch of Nagapattinam District. The details are as follows;

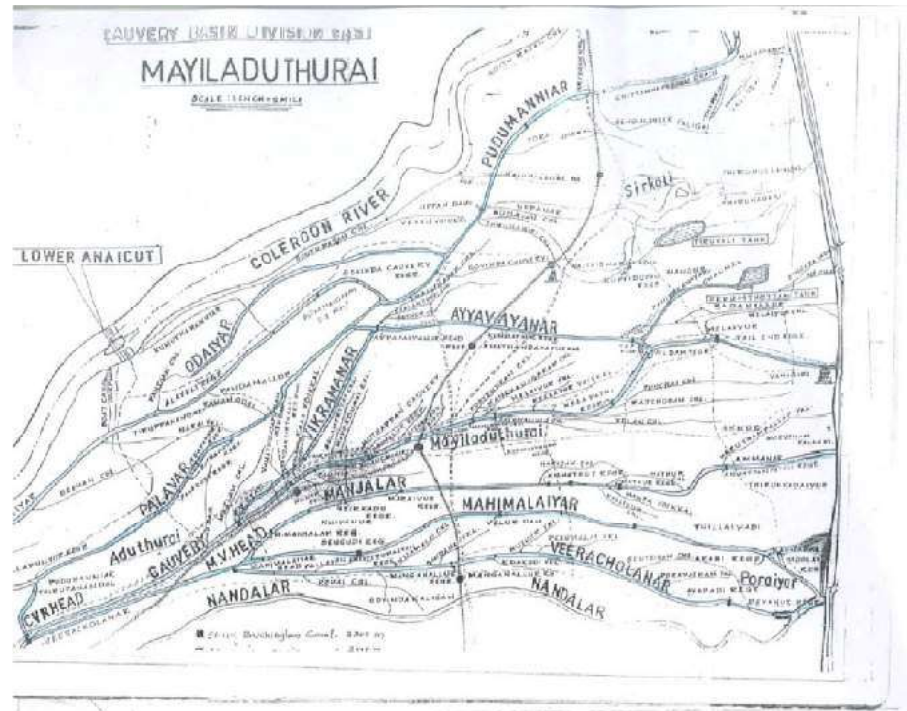
Details of Regulators:

1. Moovalur Regulator.
2. Mayiladuthurai Regulator.

3. Cauvery Vikraman (C.V) Head Regulator
4. Sathivanan Regulator
5. Melapathi Regulator
6. Koidrankondam taidam regulator
7. Melaiyur Tailend regulator

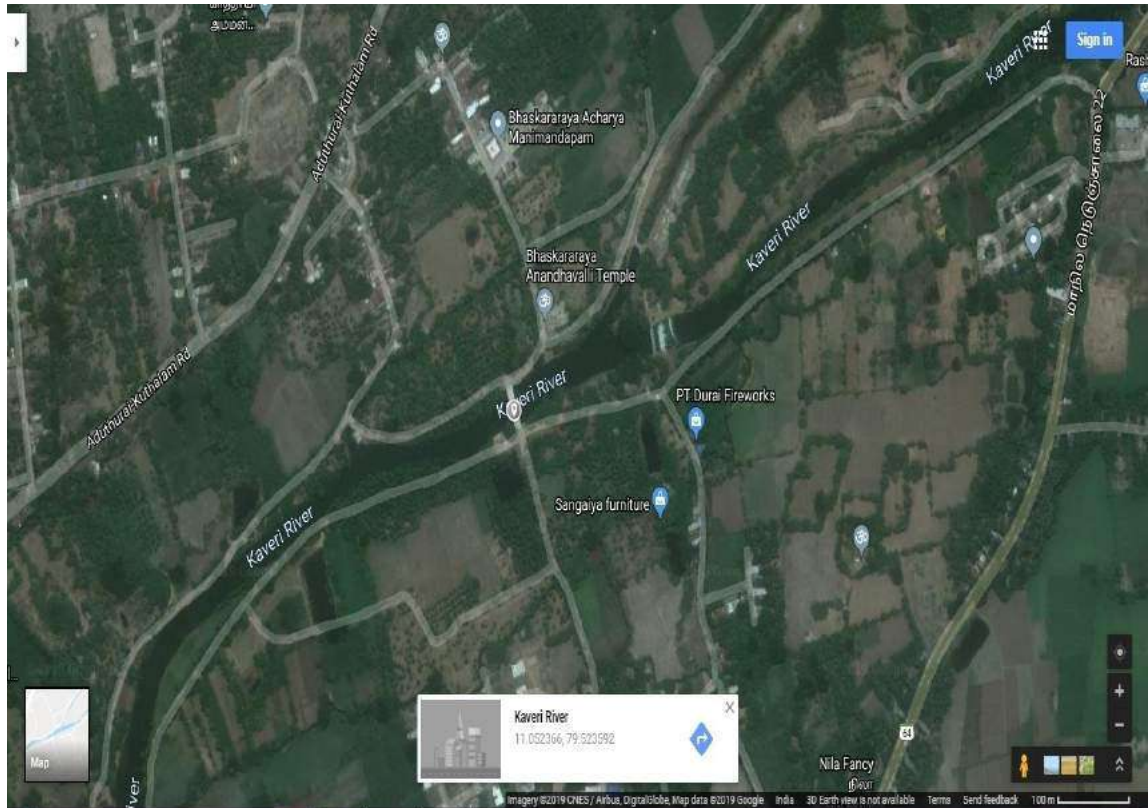
Details of Bed Dams:

1. Kolikuthi Bed Dam
2. Sitharkadu Bed Dam
3. Mapadugai Bed Dam
4. Mathirimangalam Bed Dam
5. Vanathirajapuram Bed Dam



➤ **Origin of the River/Length of Stretch:**

In Nagapattinam District, River Cauvery Flows from Thiruvallangadu Village, Kuttalam Taluk and ends in Poombuhar Village, Sirkali Taluk. The total length of River Cauvery in Nagapattinam District is 43.97 km.



7.2 Sources of Pollution in River Cauvery:

No industrial and sewage effluent were discharged in the River Cauvery Mayiladuthurai Stretch of Nagapattinam District i.e from Thiruvallangadu Village to Poombuhar Village. No water polluting industries were located near to River Cauvery.

7.3 Inspection team details

Preliminary inspection was carried out by the team of Er.R.Ramasubbu D.E.E, Er.R.Dhilip Kumar A.E.E, and Er.S.Vijaya Priya A.E on 29/12/2018, 31/12/2018 & 01/01/2019 along the River Cauvery stretch starts from Thiruvallangadu village of kuthalam block, Mayiladuthurai Block, Sembanarkoil

Block to Poombuhar of Sirkali block of Nagapattinam District and STP, Mayiladuthurai Municipality at Arupathy Village of Sembanarkoil Panchayat union.

The following team has carried out sample collection in the River Cauvery Mayiladuthurai stretch on 02.01.2019 & 03.01.2019;

| SI.No. | Name TVL | Designation Office | Office |
|--------|----------------|--------------------|-------------------------|
| 1. | R.Dhanasekaran | A.D (Lab) | AEL, Cuddalore |
| 2. | R.Dhilipkumar | A.E.E | O/o D.E.E, Nagapattinam |

Along with the above team members Er.R.Ramasubbu D.E.E has accompanied during the sample collection in the following locations River Cauvery at Kaveri Vikraman River head on 02.01.2019 and at STP inlet at Arupathy, Mayiladuthurai, STP outlet at Sathyavana Canal and Sathyavana Canal at Melmukkuttu, Aakkur on 03.01.2019.

7.4 District/Area wise details of industries

A. Details of industries in operation in Nagapattinam District

| S. No | Taluk | Red | Orange | Green | Total |
|-------|----------------|-----------|------------|-----------|------------|
| 1 | Nagapattinam | 21 | 50 | 9 | 80 |
| 2 | Kilvelur | 3 | 23 | 20 | 46 |
| 3 | Sirkali | 14 | 64 | 14 | 92 |
| 4 | Mayiladuthurai | 4 | 60 | 17 | 81 |
| 5 | Vedaranyam | 0 | 21 | 0 | 21 |
| 6 | Tharangamabdi | 4 | 35 | 14 | 53 |
| 7 | Kuthalam | 16 | 7 | 3 | 26 |
| 8 | Thirukuvalai | - | 1 | - | 1 |
| | Total | 62 | 261 | 77 | 400 |

B. Details of industries in operation located in the local bodies where the River passes:

| No. of Industries | | | | |
|---|---|------------------------------|-------------------------|-------|
| Kuttalam Panchayat Union & Town Panchayat | Mayiladuthurai Panchayat Union & Municipality | Sembanarkoil Panchayat union | Sirkali Panchayat union | Total |
| 31 | 65 | 40 | 20 | 156 |

C. Details of industries located in the villages in operation along the stretch of River Cauvery

i) Kuttalam Panchayat union & Town Panchayat:

| S. No | Villages | No. of Industries |
|-------|------------------|-------------------|
| 1 | Sethirabalapuram | 2 |
| 2 | Kuttalam | 10 |
| 3 | Kadalangudy | 1 |
| 4 | Thriumananjcheri | 2 |
| | Total | 15 |

ii) Mayiladuthurai Panchayat Union:

| S. No | Villages | No. of Industries |
|-------|--------------|-------------------|
| 1 | Sitharkadu | 1 |
| | Total | 01 |

iii) Sembanarkoil Panchayat Union:

| S. No | Villages | No. of Industries |
|-------|--------------|-------------------|
| 1 | Arupathy | 1 |
| | Total | 01 |

7.5 Details of sample collection from STP:

Samples were collected at the following location by the inspection team.

| Sl. No. | Point of collection | GPS coordinates | | Date of sample collection |
|---------|--|-----------------|-----------|---------------------------|
| | | Latitude | Longitude | |
| 1 | Arupathy, Mayiladuthurai: Inlet of M/s. Mayiladuthurai Municipality STP Projects, Sembanarkoil Panchayat Union, Tharangambadi Taluk, Nagapattinam District | 11.1096310 | 79.69816 | 03/01/2019 |
| 2 | Sathyavana Canal: Outlet of M/s. Mayiladuthurai Municipality STP Projects, Sembanarkoil Panchayat Union, Tharangambadi Taluk, Nagapattinam District | 11.1014 | 79.6983 | 03/01/2019 |



STP Sewage Inlet



STP Outlet at Sathyavanan Canal

7.6 Details of Ground water samples collected along the River Cauvery stretch (Bore well, dug well etc.,)

| Sl. No. | Point of collection | GPS coordinates | | Date of sample collection |
|---------|--|-----------------|-----------|---------------------------|
| | | Latitude | Longitude | |
| 1 | ONGC, GCS, Kuthalam – Inside the unit premises | 11.054127 | 79.525245 | 02/01/2019 |
| 2 | Setharapalapuram, Kuthalam #27 (near to the KADI Drill Site) – Outside the unit premises | 11.07171 | 79.580313 | 02/01/2019 |
| 3 | Kizhacolony, Kuthalam #2 (near to the KAAB Drill Site) – Outside the unit premises | 11.078282 | 79.571118 | 02/01/2019 |
| 4 | Kathiramangalam, Kuthalam #7 (KAAJ Drill Site) – Inside the unit premises | 11.065605 | 79.53008 | 02/01/2019 |
| 5 | Ancharu vaarthalai, Kuthalam #30 (near to the KADG Drill Site) – Outside the unit premises | 11.083390 | 79.557710 | 02/01/2019 |

7.7 Water samples collected at River Cauvery with live photograph

| Sl. No. | Point of collection | GPS coordinates | | Date of sample collection |
|---------|-----------------------------------|-----------------|-----------|---------------------------|
| | | Latitude | Longitude | |
| 1 | Kaveri Vikraman River head | 11.054504 | 79.519418 | 02/01/2019 |
| 2 | Vikraman River | 11.05412779 | 79.5243 | 02/01/2019 |
| 3 | Theerthavadhi, Kuthalam #1 | 11.083390 | 79.557710 | 02/01/2019 |
| 4 | Kadalangudi | 11.0933901 | 79.557821 | 02/01/2019 |
| 5 | Mappadugai Bed Dam | 11.102489 | 79.63642 | 02/01/2019 |
| 6 | Kaveri Thulakattam, Pushkarani | 11.10512 | 79.653167 | 02/01/2019 |
| 7 | Manakkudi | 11.102489 | 79.73642 | 02/01/2019 |
| 8 | Keelaiyur | 11.1029911 | 79.73455 | 02/01/2019 |
| 9 | Kaveri Tail Dam | 11.124670 | 79.134670 | 02/01/2019 |
| 10 | Kaveri Aiyavaiyanar | 11.915362 | 79.867362 | 02/01/2019 |
| 11 | Melaiyur, Poompuhar | 11.278790 | 79.80954 | 02/01/2019 |

| | | | | |
|----|-------------------------------------|-----------|-----------|------------|
| 12 | Rasangulam, Melaiyur, Poompohar | 11.878943 | 79.49891 | 02/01/2019 |
| 13 | River & Sea Mugathuvaram, Poombuhar | 11.989486 | 79.872890 | 02/01/2019 |
| 14 | Keezhiruppu, manakkudi | 11.11133 | 79.69494 | 03/01/2019 |

7.8 Water samples collected at Sathyavanan canal end with live photograph:

| Sl. No. | Point of collection | GPS coordinates | | Date of sample collection |
|---------|---------------------|-----------------|-----------|---------------------------|
| | | Latitude | Longitude | |
| 1 | Melmukkuttu, Aakkur | 11.09942 | 79.80061 | 03/01/2019 |

Live photograph showing the River Water sampling locations

| | |
|---|--|
|  |  |
| <p align="center">Cavery Vikraman River Head</p> | <p align="center">Vikraman River</p> |
|  |  |
| <p align="center">Theerthavadi, Kuthalam #1</p> | <p align="center">Kadalangudi</p> |



Mappadugai Bed Dam



Cavery Thulakattam, Pushkarani



Manakkudi



Keelaiyur



Cavery Tail Dam



Cavery Aiyavaiyanar



Melaiyur, Poompuhar



Rasangulam, Melaiyur, Poompuhar



River & Sea Mugathuvaram, Poompuhar

Live photograph showing the Bore-well Water sampling locations



ONGC GCS, Kuthalam



Sethirabalapuram Kuthalam #27



Kizhacolony, Kuthalam#7



Kathiramangalam, Kuthalam #7



Ancharuvarthalai, Kuthalam#1

7.9 Status of water quality of ground water, river and drain water samples in the study area

A. Report of analysis of STP samples, Nagapattinam District.

| Sl. No | Sam ple No. | Point of collection Unit | pH | TDS mg/l | CO D mg/l | BOD mg/l | Cu mg/l | Zn mg/l | Pb mg/l | Cd mg/l | Ni mg/l | Fe mg/l | T.Cr mg/l | Status of compliance with respect to WQC limit |
|---|-------------|---|------------|----------|-----------|----------|---------|---------|---------|---------|---------|---------|-----------|--|
| 1 | 1694 | Inlet of Mayiladuthurai Municipality STP | 7.11 | - | 160 | 32 | 0.234 | 0.184 | <0.015 | 0.002 | 0.068 | 0.748 | 0.193 | Not Complied |
| 2 | 1695 | Outlet of Mayiladuthurai Municipality STP | 7.13 | - | 264 | 38 | 0.367 | 0.258 | 0.498 | <0.008 | 0.089 | 1.071 | 0.19 | Not Complied |
| Effluent discharge norms for inland surface water as per schedule-VI of E(P) Rules 1986 in mg/l except pH | | | 5.5 to 9.0 | - | 250 | 30 | 3.0 | 5.0 | 0.1 | 2.0 | 3.0 | 3.0 | 2.0 | |

B. Report of analysis of ground water - Nagapattinam District.

| Sl. No | Sample No. | Point of collection | SO ₄ | Fluoride | O&G | Cu | Zn | Pb | Cd | Ni | Mn | Fe | T.Cr | Status of compliance with respect to WQC limit |
|---|------------|---|-----------------|----------|-------|-------|---------|--------|--------|--------|--------|-------|--------|--|
| | | Unit | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 1 | 1678 | ONGC, GGS, Kuthalam-Inside the unit premises | 250 | <1 | <1 | 0.03 | 0.014 | <0.015 | <0.008 | <0.006 | <0.001 | 0.159 | <0.005 | Complied except SO ₄ |
| 2 | 1679 | Sethrapalapuram Kuthalam (near Kadi Drill site), outside the premises | 94 | <1 | <1 | 0.037 | <0.0015 | <0.015 | <0.008 | <0.006 | <0.001 | 0.054 | <0.005 | Complied |
| 3 | 1680 | Kizhacolony, Kuthalam, (KAAB Drill site), outside the premises | 340 | <1 | <1 | 0.035 | <0.0015 | <0.015 | <0.008 | <0.006 | <0.001 | 0.072 | <0.005 | Complied except SO ₄ |
| 4 | 1681 | Kathiramangalam, Kuthalam (KAAJ Drill site), Inside the unit premises | 44 | 0.99 | <1 | 0.035 | <0.0015 | <0.015 | <0.008 | <0.006 | <0.001 | 0.129 | <0.005 | Complied |
| 5 | 1682 | Ancharuvaarthalai, Kuthalam (KADG Drill site), outside the premises | 118 | <1 | <1 | 0.031 | <0.0015 | <0.015 | <0.008 | <0.006 | <0.001 | 0.278 | <0.005 | Complied |
| IS10500-2012 Drinking water specifications-Acceptable limit (in mg/l) | | | 200 | 1.0 | 0.5 * | 0.05 | 5 | 0.01 | 0.003 | 0.02 | 0.1 | 0.3 | 0.05 | |

Note: Generally in case of ground water samples, concentration less than or equal to <1 mg/l is indicated as BDL by TNPCB laboratories. But as per BIS Drinking water specifications, mineral oil content of sampling points exceed the limit of 0.5 mg/l.

C. Report of analysis of Cauvery river water and drains – Nagapattinam District.

| Sl. No | Sample No. | Point of collection | D O | Faecal Coliform | BOD | Cu | Zn | Pb | Cd | Ni | Mn | Fe | T.Cr | Status of compliance with respect to WQC limit |
|--------|------------|--------------------------------|-------|-----------------|------|-------|---------|--------|--------|-------|--------|--------|--------|--|
| | | Unit | m g/l | MPN/ 100MI | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| 1 | 1676 | Kaveri Vikraman River head | 4.9 | 70 | 4.0 | 0.048 | <0.0015 | <0.015 | 0.007 | 0.12 | <0.001 | 0.073 | <0.005 | Not complied |
| 2 | 1677 | Vikraman River | 5.1 | 17 | 2 | 0.037 | <0.0015 | <0.015 | <0.008 | 0.069 | <0.001 | 0.110 | <0.005 | Complied |
| 3 | 1683 | Theerthavadi, Kuthalam#1 | 4.9 | 70 | 3 | 0.036 | <0.0015 | <0.015 | 0.007 | 0.119 | <0.001 | 0.118 | <0.005 | Complied except DO |
| 4 | 1684 | Kadalangudi | 4.8 | 6.8 | 3 | 0.041 | <0.0015 | <0.015 | 0.007 | 0.123 | <0.001 | 0.162 | 0.05 | Complied except DO |
| 5 | 1685 | Mappadugai Bed Dam | 5.2 | 280 | 2 | 0.044 | <0.0015 | <0.015 | 0.006 | 0.109 | <0.001 | 0.0132 | <0.005 | Complied |
| 6 | 1686 | Kaveri Thulakattam, Pushkarani | 4.7 | 4 | 3 | 0.042 | <0.0015 | <0.015 | 0.01 | 0.12 | 0.014 | 0.116 | <0.005 | Complied except DO |
| 7 | 1687 | Manakkudi | 4.6 | 21 | 3 | 0.038 | <0.0015 | <0.015 | 0.016 | 0.094 | 0.157 | 0.069 | <0.005 | Complied except DO |

| | | | | | | | | | | | | | | |
|--|------|-------------------------------------|-----------|------------------|----------|-------|-------------|------------|-----------|-----------|-----------|-----------|-----------|------------------------------------|
| 8 | 1688 | Keelaiyur | 4.6 | - | 3 | 0.034 | <0.001 5 | <0.0 15 | 0.02 | 0.06 | 0.32 6 | 0.13 6 | <0.0 5 | Complie d except DO |
| 9 | 1689 | Kaveri Tail Dam | 4.3 | 4 | 3 | 0.038 | <0.001 5 | <0.0 15 | 0.02 4 | 0.09 4 | 0.20 5 | 0.06 1 | <0.0 5 | Complie d except DO |
| 10 | 1690 | Kaveri Ariyavaiyanar | 5.0 | 14 | 2 | 0.031 | <0.001 5 | <0.0 15 | 0.01 1 | 0.06 3 | 0.18 6 | 0.06 2 | <0.0 5 | Complie d |
| 11 | 1691 | Melaiyur, Poompohar | 4.5 | 4 | 3 | 0.047 | <0.001 5 | <0.0 15 | 0.02 2 | 0.09 2 | 0.08 3 | 0.09 4 | <0.0 5 | Complie d except DO |
| 12 | 1692 | Rasangulam, Melaiyur, Poompohar | 4.2 | 3.7 | 6 | 0.041 | <0.001 5 | <0.0 15 | 0.02 1 | 0.07 7 | <0.0 1 | 0.09 3 | <0.0 5 | Complie d except DO & BOD |
| 13 | 1693 | River & Sea Mugathuvaram, Poombuhar | 4.8 | 3.7 | 12 | 0.043 | <0.001 5 | <0.0 15 | 0.02 2 | 0.00 2 | <0.0 1 | 0.17 4 | 0.08 1 | Not complied |
| 14 | 1696 | Keezhiruppu, Manakkudi | 3.9 | 3.5 | 3 | 0.044 | <0.001 5 | 0.21 2 | 0.02 3 | 0.08 4 | <0.0 1 | 0.03 6 | <0.0 5 | Complie d except DO |
| 15 | 1697 | Melmukkuttu, Aakkur | 3.3 | 4 | 3 | 0.045 | <0.001 5 | 0.19 3 | 0.02 4 | 0.81 | <0.0 1 | 0.15 6 | <0.0 5 | Complie d except DO |
| Water quality criteria (WQC) limit for Bathing | | | ≥ 5 m g/l | ≤ 500 MPN/100 ml | ≤ 3 mg/l | - | - | - | - | - | - | - | - | - |

Ground water samples (5 Nos) were collected by the inspection teams. 2 out of 5 ground water sampling locations are located within the industry premises of M/s ONGC Ltd Gas Collection Station and M/s KAAJ (KA#07) Drill Site located at Kuthalam Village and 3 ground water sampling locations are located outside industry premises of M/s KADI (KA#27) Drill Site, Sethirabalapuram Village, M/s KAAB(KA#02) Drill Site, Kuttalam Village, M/s KADG(KA#30) Drill Site, Ancharuvarthalai village Thirumancheri Panchayat of Kuthalam Taluk.

In this regard M/s ONGC Limited was directed by TNPC Board to take necessary implement measures to meet out the standards of bore well water with respect to the Drinking Water Specifications as per IS:10500-2012 (Note: Direction to be issued by Member Secretary, TNPCB, Chennai).

7.10 Assessment of Compliance of the effluents/sewage discharge norms by the industries in the study area

No water polluting industries were located in the River Cauvery Mayiladuthurai stretch of Nagapattinam District i.e from Thiruvalangadu Village to Poombuhar Village.

Mayiladithurai Municipality STP project operating at Arupathy Village of Sembanarkoil Panchayat union was inspected by the team on 31.12.2018. During the inspection it was noticed that the municipality has provided the STP

components such as Inlet chamber, Screen chamber, Grit chamber, Division chamber, Facilitative pond (2 Nos.) and Polishing pond (4 Nos.) and consent was issued to the unit with validity upto 31.03.2018. STP receiving 6.0 MLD of sewerage and final treated waste was discharged into the Municipal land of extent 13.16 acres for open stagnation and overflow was noticed and it has been discharged into the sathyavanan Canal is being utilized for irrigation. Cauvery River flows at a distance of 700m from the STP.

The Report of analysis of the water samples collected from STP outlet discharges into Sathiyavanan Canal on 03.01.2019 by the inspection team reveals that the parameters TSS & BOD exceeds the limit as per the standards prescribed in the Environment (Protection) Amendment Rules, 2017 vide G.S.R.1265(E) Dated 13/10/2017 and the standards prescribed by the TNPC Board for discharge of treated sewage into the PWD irrigation canal in the Consent order issued under Water Act. Follow up discussion were made with the Commissioner, Mayiladuthurai Municipality, Mayiladuthurai on 07.01.2019. Mayiladuthurai Municipality, Mayiladuthurai has proposed to carryout desludging activities in the existing STP as short term plan and proposed to implement the STP project with ASP treatment method as long term action plan. Short term and long term Action plans for the improvement of STP and underground drainage system submitted by the Commissioner, Mayiladuthurai Municipality, Mayiladuthurai in Annexure.

Sewage outfall points in the River with GPS coordinates.

There is no sewage outfalls directly / indirectly to discharge the sewage generated by the local bodies into the River Cauvery in the stretch of Nagapattinam District. The discharge from the Mayiladithurai Municipality is treated in their STP provided and the treated sewage is let out into their own land for irrigation. The remaining two town panchayat (Kuttalam and Sembanarkoil) does not have any sewerage system as well as treatment system to treat the sewage generated.

7.11 Operation status of ETPs

No industrial and sewage effluent were discharged in the River Cauvery Mayiladuthurai Stretch of Nagapattinam District i.e from Thiruvallangadu Village to Poombuhar Village. No water polluting industries were located near to River

Cauvery. The industries located in the River passes have provided adequate Effluent treatment systems measures. No trade effluent is discharged in to the River Cauvery.

7.12 Status of installation and operation status of online continuous Effluent Monitoring Systems (OCEMS)

No trade effluent discharging units located in the River Cauvery Mayiladuthurai stretch of Nagapattinam District i.e from Thiruvalangadu Village to Poombuhar Village.

7.13 Main findings and observations

No water polluting industries were located in the River Cauvery Mayiladuthurai stretch of Nagapattinam District i.e from Thiruvalangadu Village to Poombuhar Village.

The Report of analysis of the water samples collected from STP outlet discharges into Sathiyavanan Canal on 03.01.2019 reveals that the parameters TSS & BOD exceeds the limit as per the standards prescribed in the Environment (Protection) Amendment Rules, 2017 vide G.S.R.1265(E) Dated 13/10/2017 and the standards prescribed by the TNPC Board for discharge of treated sewage into the PWD irrigation canal in the Consent order issued under Water Act. Follow up discussion were made with the Commissioner, Mayiladuthurai Municipality, Mayiladuthurai on 07.01.2019. Mayiladuthurai Municipality, Mayiladuthurai has proposed to carryout desludging activities in the existing STP as short term plan and proposed to implement the STP project with ASP treatment method as long term action plan.

Short term and long term Action plans for the improvement of STP and underground drainage system submitted by the Commissioner, Mayiladuthurai Municipality.

In this regard, Direction was issued to the Commissioner of Municipal Administration, Chennai and Commissioner, Mayiladuthurai Municipality, Mayiladuthurai by TNPC Board's Proceedings to implement desludging activities

within 6 months to achieve sewage discharge standards from the existing STP(Direction to be issued).

During the inspection along the River Cauvery stretch it was noticed that the following local bodies were disposing Municipal solid waste near to bank of River Cauvery: Mathirimangalam Village of Kuttalam Panchayat union, Rajagopalapuram Viilage of Kuthalam Town Panchayat, Ancharuvarthalai village - Thirumanacheri Panchayat of Kuthalam panchayat union, Anaimelagaram village, Moovalur village and Sitharkadu village of Mayiladuthurai Panchayat union, Mayiladuthurai Municipality- Near Mela Otha saragu Street, Mayiladuthurai, Mayiladuthurai regulator-Near Poovendran canal and Melapathy village- Nadukarai Melapathy Panchayat of Sembanarkoil panchayat union.

Follow up discussion were made with the Commissioner, Mayiladuthurai Municipality, Mayiladuthurai on 07.01.2019. Mauladuthurai Municipality has proposed to deploy Battery operated Vehicles (BOV) & Light Commercial Vehicles tipper model type (LCV) to handle the increase in source segregation by the end of 31st March 2019 and proposed to provide Micro Compost Centres (MCC) & onsite Compost Centres are (OCCS) by the end on June 2019 as reported in the action plan is given in Annexure.

In this regard, Direction was issued to the Commissioner of Municipal Administration, Chennai, The Commissioner, Mayiladuthurai Municipality, Mayiladuthurai, The Director, DRDA, Chennai and the Director, Town Panchayat, Chennai by TNPC Board.

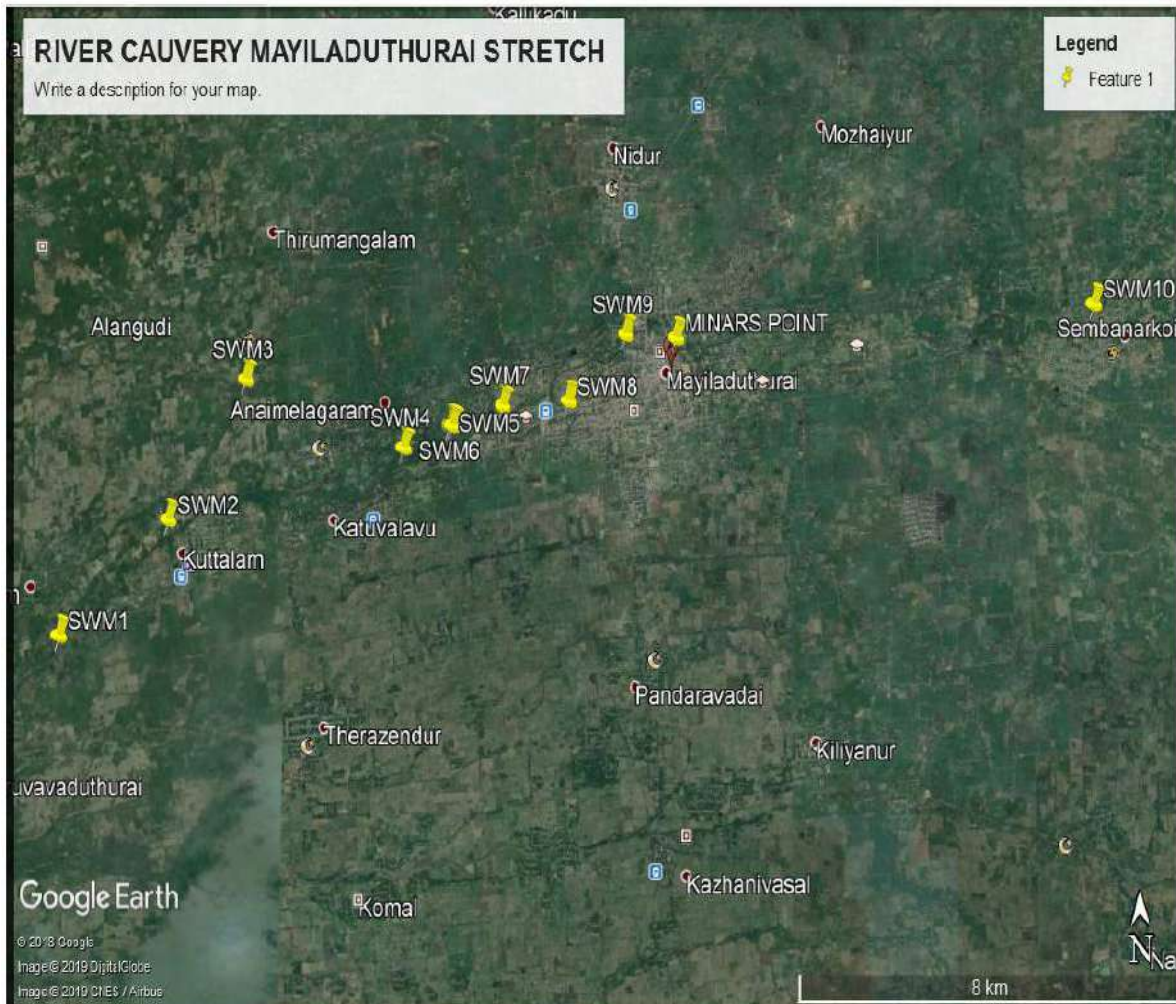
Population details of the local body on the River Stretch.

| Sl.No. | Name of the Town | Population |
|--------|------------------|------------|
| 1. | Kuttalam | 16125 |
| 2. | Mayiladuthurai | 85599 |
| 3. | Sembanarkoil | 77443 |

Details of Solid Waste Management by the Local bodies:

Dumping of Municipal Solid Waste nearer to the bank of River Cauvery by the following local bodies was identified

| Sl. No. | Site Location | GPS coordinates | |
|---------|--|-------------------------------|------------------------------|
| | | Latitude | Longitude |
| 1 | Mathirimangalam panchayat - Kuttalam Panchayat union | 11 ⁰ 03 ' 29.4'' N | 79 ⁰ 31' 59.0'' E |
| 2 | RajagopalapuramViilage - Kuthalam Town Panchayat | 11 ⁰ 04' 34.3'' N | 79 ⁰ 33' 14.3'' E |
| 3 | Ancharuvarthalai, Thirumanacheri Panchayat - Kuthalampanchayat union village | 11 ⁰ 05' 53.7'' N | 79 ⁰ 34' 07.3''E |
| 4 | Anaimelagaram panchayat - Mayiladuthurai Panchayat union | 11 ⁰ 05' 15.0'' N | 79 ⁰ 35' 59.4'' E |
| 5 | Moovalur panchayat -Mayiladuthurai Panchayat union | 11 ⁰ 05' 27.7'' N | 79 ⁰ 36' 32.1''E |
| 6 | Moovalur panchayat (near TASMAC bar)-Mayiladuthurai Panchayat union | 11 ⁰ 05' 27.6'' N | 79 ⁰ 36' 33.7''E |
| 7 | Sitharkadu panchayat - Mayiladuthurai Panchayat union | 11 ⁰ 05' 38.7'' N | 79 ⁰ 37' 09.2''E |
| 8 | Mayiladuthurai Municipality- Near MelaOthasaragu Street | 11 ⁰ 05' 41.4'' N | 79 ⁰ 37' 55.7''E |
| 9 | Mayiladuthurai regulator-Near Poovendran canal | 11 ⁰ 06' 19.4'' N | 79 ⁰ 38' 36.4''E |
| 10 | Nadukarai Melapathy Panchayat – Sembanarkoilpanchayat union | 11 ⁰ 06' 36.9'' N | 79 ⁰ 44' 09.3''E |



Minars Sampling location

1. Cauvery Thulakattam, Pushkarani (MINARS POINT)

Solid Waste Dumping locations

1. Mathlrimangalam panchayat – Kuttalam Panchayat union (SWM1)
2. Rajagopalapuram Village - Kuthalam Town Panchayat(SWM2)
3. Ancharuvarthalai, Thirumanacheri Panchayat – Kuthalam panchayat union village(SWM3)
4. Anaimelagaram panchayat –Mayiladuthurai Panchayat union(SWM4)
5. Moovalur panchayat –Mayiladuthurai Panchayat union(SWM5)
6. Moovalurpanchayat (near TASMAC bar) -Mayiladuthurai Panchayat union(SWM6)
7. Sitharkadu panchayat –Mayiladuthurai Panchayat union(SWM7)
8. Mayiladuthurai Municipality- Near Mela Othasaragu Street(SWM8)
9. Mayiladuthurai regulator-Near Poovendran canal(SWM9)
10. Nadukarai Melapathy Panchayat –Sembanarkoil panchayat union(SWM10)

Solid Waste Dumping Location Photographs

1. Mathirimangalam Village of Kuttalam Panchayat union.



2. Rajagopalapuram Village of Kuthalam Town Panchayat.



3. Ancharuvarthalai village -Thirumanacheri Panchayat of Kuthalam panchayat union.



4. Anaimelagaram village of Mayiladuthurai Panchayat union.



5. Moovalur village – Moovalur panchayat of Mayiladuthurai Panchayat union.



6. Disposal of solid waste neat TASMAC Bar in Moovar Village



7. Sitharkadu village – Sitharkadu panchayat of Mayiladuthurai Panchayat union.



8. Mayiladuthurai Municipality- Near Mela Otha Street, Mayiladuthurai



9. Mayiladuthurai regulator, Near Poovendran Vaikal



10. Melapathy village- Nadukarai Melapathy Panchayat of Sembanarkoil panchayat union



Details on Consent/Authorization issued by the Board for the establishment of the STP/ Solid waste facility.

| SI.No. | Facility | Consent status | Authorization status |
|--------|--|--|-------------------------|
| 1. | Mayiladuthurai Municipality STP & MSW site | In operation- CTO Issued on 31/03/2010 | Issued on 01.08.2017 |
| 2. | Kuthalam Town Panchayat | - | Issued on 31.10.2008 |

Status on the ground reality of the STPs and Waste processing facilities provided by the local body for handling sewage and solid waste.

Mayiladuthurai Municipality, Mayiladuthurai has proposed to carryout desludging activities in the existing STP as short term plan and proposed to implement the STP project with ASP treatment method as long term action plan. The short term and long term Action plans for the improvement of STP and underground drainage system submitted by the Commissioner, Mayiladuthurai Municipality, Mayiladuthurai is furnished in Annexure.

Comments on each location

No effluent and sewage discharged into the River Cauvery stretch of Nagapattinam District.

7.14 Ground water Quality- Compliance status

To assess the ground water sampling locations suitability for drinking water purpose, the analysis results of the ground water samples are compared with the Bureau of Indian Standard Drinking Water Specifications (second revision) IS10500-2012 w.r.to the acceptable limits. The analysis results of the ground water samples collected from the study area reveals that

- The report of analysis shown that all the parameters are within prescribed limits of Bureau of Indian Standard Drinking Water Specifications (second revision) IS10500-2012 at 3 Nos. of ground water sampling locations (i.e. M/s KADI (KA#27) Drill Site, Sethirabalapuram Village, M/s KAAJ (KA#07) Drill Site located at Kuthalam Village & M/s KADG(KA#30) Drill Site, Ancharuvarthalai village of Kuthalam Taluk)
- The report of analysis of 2 Nos. of groundwater sampling locations i.e at M/s ONGC Ltd Gas Collection Station, Kuthalam Village (inside the unit premises) and M/s KAAB(KA#02) Drill Site (outside the unit premises near to the well) Kuttalam Village of Kuthalam Taluk is found to be exceeds in one parameter such as sulphate.
- Location-wise status of no. of ground water sampling locations complying to the Bureau of Indian Standard Drinking Water Specifications (second revision) IS10500-2012 w.r.to the acceptable limit is given in the following table.

| Sl. No. | District | No. of Ground water Sampling Locations | | Total No. of Ground Water Sampling Locations-Compliance w r to IS10500:2012 Drinking water standards | | | |
|---------|--------------|--|---------------------------|--|---------------------------|--------------------------|---------------------------|
| | | Inside Industry Premises | Outside Industry Premises | Complying | | Non Complying | |
| | | | | Inside Industry Premises | Outside Industry Premises | Inside Industry Premises | Outside Industry Premises |
| 1 | Nagapattinam | 02 | 03 | 01 | 02 | 01 | 01 |

7.15 Findings on the River water and drains quality

For the purpose of analysing the data, the analysis results of the samples collected from river Cauvery is compared with the Water Quality Criteria for bathing purposes i.e BOD <3 mg/l and FC < 500 MPN/100 ml as mentioned in the Hon'ble NGT order Dated 20th September 2018.

The analysis results of the river Cauvery and the results reveal that water quality of river Cauvery at the sampling location Vikraman River, Theerthavadhi Kuthalam #1, Kadalangudi, Mappadugai Bed Dam, Kaveri Thulakattam, Pushkarani, Manakkudi, Keelaiyur, Kaveri Tail Dam, Kaveri Aiyavaiyanar, Melaiyur Poompuhar and Keezhiruppu, manakkudi is complying with water quality criteria for bathing as mentioned in the in the Hon'ble NGT order Dated 20th September 2018. whereas the result of analysis of the water samples collected at the sampling location Kaveri Vikraman River head, Rasangulam -Melaiyur - Poompuhar and River & Sea Mugathuvaram- Poombuhar reveals that the parameter BOD exceeds the standards of the water quality criteria for bathing as mentioned in the in the Hon'ble NGT order Dated 20th September 2018.

7.16 Findings on the compliance of the effluent /Sewage discharge norms by the industries.

No industrial and sewage effluent were discharged in the River Cauvery Mayiladuthurai Stretch of Nagapattinam District i.e from Thiruvallangadu Village to Poombuhar Village. No water polluting industries were located near to River Cauvery. The industries located in the River passes have provided adequate Effluent treatment systems measures.No trade effluent/sewage from the industry was discharged in to the River Cauvery.

7.17 General observations and recommendations of the inspection team

During inspection it is observed that there is No trade effluent/sewage from the industry was discharged in to the River Cauvery Mayiladuthurai stretch of Nagapattinam District i.e from Thiruvallangadu Village to Poombuhar Village.

Improvement in Mayiladithurai Municipality STP project operating at Arupathy Village of Sembanarkoil Panchayat union Mayiladuthurai Municipality,

Mayiladuthurai is required to achieve the treated sewage discharge standards as prescribed in the Environment (Protection) Amendment Rules, 2017 vide G.S.R.1265(E) Dated 13/10/2017. Mayiladuthurai Municipality has proposed to carryout desludging activities in the existing STP as short term plan and proposed to implement the STP project with ASP treatment method as long term action plan. In this regard, Direction was issued to the Commissioner of Municipal Administration, Chennai and Commissioner, Mayiladuthurai Municipality, Mayiladuthurai vide Board's Proceedings (Direction to be issued).

Dumping of Municipal solid waste near to bank of River Cauvery were identified in the following local bodies: Mathirimangalam Village of Kuttalam Panchayat union, Rajagopalapuram Viilage of Kuthalam Town Panchayat, Ancharuvarthalai village -Thirumanacheri Panchayat of Kuthalam panchayat union, Anaimelagaram village, Moovalur village and Sitharkadu village of Mayiladuthurai Panchayat union, Mayiladuthurai Municipality- Near Mela Otha saragu Street, Mayiladuthurai, Mayiladuthurai regulator-Near Poovendran canal and Melapathy village- Nadukarai Melapathy Panchayat of Sembanarkoil panchayat union. In this regard, Direction was issued to the Commissioner of Municipal Administration, Chennai, The Commissioner, Mayiladuthurai Municipality, Mayiladuthurai, The Director, DRDA, Chennai and the Director, Town Panchayat, Chennai vide Board's Proceedings (Direction to be issued).

7.18 Recommendations- Action plan for the River stretch

Proposed Short Term and Long Term Action Plan for Rejuvenation of River Cauvery – Nagappattinam District:

| Sl. No. | Description of Source | Action Plan for Rejuvenation of River Sarabanga | Organisation/ Agency Responsible for Execution of the Action Plan | Time Target |
|----------------|------------------------------------|--|--|--------------------|
| 1. | Industrial Pollution Control | No industrial discharge | TNPCB | - |
| 2. | Sewage Treatment and Disposal plan | Nagappatinam District: ❖ Mayiladuthurai Municipality • No. of sewage outfall identified: Nil | Municipal Administration | |

| | | | | |
|--|--|-------------------------------|--|--|
| | <ul style="list-style-type: none"> • Population: 90112 • Total Households: 21867 • Qty of Sewage generated: 5.58 MLD • Status of UGSS: Under Ground Sewerage scheme work is completed fully in 22 wards and partially in 7 wards with 1 no. of 5.80 MLD capacity STP and treated sewage water let out as per GOI norms. • Status of STP: 5.80 MLD capacity STP provided. • Present mode of Sewage Disposal: Treated through STP. • Plan of Action: <ul style="list-style-type: none"> ➤ To cover the remaining 14 wards (7 wards fully & 7 wards partially) the process of preparing Detailed project report is under progress. ➤ Once the DPR is ready by September 2019, after the fund tie-up under appropriate schemes, implementation will commence and expected to be completed by May 2022. | | | |
| | <ul style="list-style-type: none"> ❖ Kuthalam Town Panchayat • No. of sewage outfall identified: 6 locations • Population: 16125 • Qty of Sewage generated: 0.106 | Directorate of Town Panchayat | | |

May-2022

| | | | | |
|--|--|---|-----------------------------------|-----------|
| | | <p>MLD</p> <ul style="list-style-type: none"> • Status of UGSS: Not Provided • Status of STP: Not Provided • Present Mode of Sewage Disposal: • Sullage water Let out in to Kuthalam Irrigation Channel • Plan of Action: <p>Detailed project report have been prepared at an estimated cost of Rs 50.00 Lakhs for treatment and disposal of sullage water by Eco Ozodation / Wet land Technology under IUDM for the year 2019-20.</p> | | June-2020 |
| | | <p>❖ Mathirimangalam Village Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: Nil • Population: 3959 • Total households: 862 • Qty of Sewage generated: 0.011679 MLD • Status of UGSS: Not Provided • Status of STP: Not provided • Present mode of Sewage disposal: Out of 862 households 581 households having twin leach pit toilet, 278 households having toilet with septic tank and method of disposal of over flow water, 653 households not covered with soak pit but having adequate space for construction. • Plan of Action: <p>Proposed for remaining 653</p> | Rural Development & Panchayat Raj | |

| | | | | |
|--|--|--|-----------------------------------|----------|
| | | <p>households to be connected with individual Soak pits or community soak pits (vertical type) to be provided under MGNREGS 2019-2020& 2020-2021.</p> <p>After construction of soak pits no waste water will be disposed into the river.</p> | | Oct-2019 |
| | | <p>❖ Sitharkadu Village Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: Nil • Population: 4467 • Total households: 1428 • Qty of Sewage generated: 0.028 MLD • Status of UGSS: Not Provided • Status of STP: Not provided • Present mode of Sewage disposal: Out of 1428 households 288 households having twin leach pit toilet, 988 households having toilet with septic tank and method of disposal of over flow water, 871 households not covered with soak pit but having adequate space for construction, 405 households having no space and directly discharging grey water into open drain • Plan of Action: Proposed to construct 871 soak pits for the remaining households to be connected with individual Soak pits (vertical type) to be provided under | Rural Development & Panchayat Raj | Oct-2019 |

| | | | | |
|--|--|--|-----------------------------------|----------|
| | | MGNREGS 2019-2020& 2020-2021. | | |
| | | <p>❖ Moovalur Village Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: Nil • Population: 3420 • Total households: 1037 • Qty of Sewage generated: 0.018 MLD • Status of UGSS: Not Provided • Status of STP: Not provided • Present mode of Sewage disposal: Out of 1037 households 481 households having twin leach pit toilet, 536 households having toilet with septic tank and method of disposal of over flow water, 14 No of households covered with soak pits under MGNREGS, 682 households not covered with soak pit but having adequate space for construction, 321 households having no space and directly discharging grey water into open drain • Plan of Action: Proposed to construct 682 soak pits for the remaining households to be connected with individual Soak pits (vertical type) to be provided under MGNREGS 2019-2020& 2020-21. | Rural Development & Panchayat Raj | Oct-2019 |
| | | <p>❖ Anaimelagaram Village Panchayat</p> <ul style="list-style-type: none"> • No. of sewage outfall identified: Nil • Population: 3007 • Total households: 982 | Rural Development & Panchayat Raj | |

| | | | | |
|----|--|---|--------------------------|--|
| | | <ul style="list-style-type: none"> • Qty of Sewage generated: 0.016 MLD • Status of UGSS: Not Provided • Status of STP: Not provided • Present mode of Sewage disposal: Out of 982 households 344 households having twin leach pit toilet, 629 households having toilet with septic tank and method of disposal of over flow water, 186 No of households covered with soak pits under MGNREGS, 741 households not covered with soak pit but having adequate space for construction, 46 households having no space and directly discharging grey water into open drain • Plan of Action: Proposed to construct 741 soak pits for the remaining households to be connected with individual Soak pits (vertical type) to be provided under MGNREGS 2019-2020& 2020-2021. | | |
| 3. | Solid Waste Management and Disposal Plan | <p>Nagappatinam District:</p> <ul style="list-style-type: none"> ❖ Mayiladuthurai Municipality • No. of MSW dumping points identified: 2 locations • Population: 90112 • Households: 21867 • Qty of MSW Generated: Wet waste: 18 TPD Dry waste: 14 TPD Total: 32 TPD | Municipal Administration | |

Oct-2019

| | | | | |
|--|--|---|-------------------------------|--|
| | | <p>MSW Collection – 100%</p> <p>MSW Segregation – 60%</p> <p>Present Treatment Method:</p> <p>Wet waste: 18 TPD - Nil</p> <p>Dry waste: 14 TPD</p> <ul style="list-style-type: none"> • Saleable waste of 7TPD sold out to the identified vendors & registers are being maintained. • The Non saleable Non Biodegradable waste of 4.0 TPD is stored in the RRC at Ananthadhandavapuram Road & periodically disposed to Ultra tech Cement • Inert & Silt-3 TPD Stored along with C&D waste. Used for Filling Low Lying Areas <p>Proposed Plan of Action:</p> <p>Wet Waste: 18 TPD</p> <ul style="list-style-type: none"> • Micro Composting Plant – 3 Nos. of 15 TPD (Will be completed before April 2019-SBM Funds) • On – Site Composting – 8 nos. of 4.5 TPD (Will be completed before April 2019-ULB General funds) | | <p>100% will be achieved before 30.06.19</p> <p>Apr-2019</p> <p>Apr-2019</p> |
| | | <p>❖ Rajagopalapuram Village – Kuthalam Town Panchayat</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: 1 location • Population: 16125 • Qty of MSW Generated: 4.0 TPD <p>Source Collection & Segregation – Yes</p> | Directorate of Town Panchayat | |

| | | | | |
|--|--|---|-----------------------------------|-----------|
| | | <p>Treatment method:Windrow & Vermi composting</p> <p>Present Mode of MSW Disposal:</p> <ul style="list-style-type: none"> • Wet Waste of 2.880 TPD are processed by Windrow Compost method. • Dry Waste – 1.120 TPD • Recyclable waste (plastic, metal, rubber etc., 0.030 TPD sold out to the identified vendors. • The Non Recyclable waste of 0.690 TPD periodically disposed. • Inerts & Silt -0.40 TPD Used in Filling Low Lying Areas. <p>Plan of Action:</p> <p>Work under progress at an estimate cost of RS.15.60 Lakh for Providing Compound wall and toilet facilities Under SBM Fund.</p> | | June-2019 |
| | | <p>❖ Mathirimangalam Village Panchayat</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: 1 Location • Population: 3959 • Total households: 862 • Qty of MSW Generated: 0.169 TPD <p>Source Collection & Segregation – Yes</p> <p>Treatment method:</p> <p>➤ Bio-Degradable Waste:</p> <p>149Kg/day Bio-degradable solid waste dumped in the compost pits</p> | Rural Development & Panchayat Raj | |

| | | | | |
|--|--|--|-----------------------------------|--|
| | | <p>and cow dung are being sprayed at regular intervals and it becomes manure after 30 days and sold to the farmers.</p> <p>➤ Non Bio – Degradable Waste: 20 Kg/day Non Bio-degradable solid waste Segregated glass, Plastic bottles, Covers, Iron, Aluminium foil sheets etc. once in 15 days and sold to the local merchants. Non Bio-degradable wastes – 65% plastic in which 35% wastes used for plastic roads. Plan of Action: Nil Solid Waste facility Provided.</p> | | |
| | | <p>❖ Sitharkadu Village Panchayat</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: 1 Location • Population: 4467 • Total households: 1428 • Qty of MSW Generated: 0.387 TPD <p>Source Collection & Segregation – Yes Treatment method:</p> <p>➤ Bio-Degradable Waste: 381Kg/day Bio-degradable solid waste dumped in the compost pits and cow dung are being sprayed at regular intervals and it becomes manure after 30 days and sold to the farmers.</p> | Rural Development & Panchayat Raj | |

| | | | | |
|--|--|---|-----------------------------------|---|
| | | <p>➤ Non Bio – Degradable Waste:</p> <p>6 Kg/day Non Bio-degradable solid waste Segregated glass, Plastic bottles, Covers, Iron, Aluminium foil sheets etc. once in 15 days and sold to the local merchants for recycling. Non-recycling wastes are buried into ground.</p> <p>Plan of Action: Nil</p> <p>Solid Waste facility Provided.</p> | | - |
| | | <p>❖ Moovalur Village Panchayat</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: 1 Location • Population: 3420 • Total households: 1037 • Qty of MSW Generated: 0.294 TPD <p>Source Collection & Segregation – Yes</p> <p>Treatment method:</p> <p>➤ Bio-Degradable Waste:</p> <p>283Kg/day Bio-degradable solid waste dumped in the compost pits and cow dung are being sprayed at regular intervals and it becomes manure after 30 days and sold to the farmers.</p> <p>➤ Non Bio – Degradable Waste:</p> <p>11 Kg/day Non Bio-degradable solid waste Segregated glass, Plastic bottles, Covers, Iron, Aluminium foil sheets etc. once in 15 days and sold to the local merchants for recycling.</p> | Rural Development & Panchayat Raj | |

| | | | | |
|--|--|--|-----------------------------------|---|
| | | <p>Non-recycling wastes are buried into ground.</p> <p>Plan of Action: Nil</p> <p>Solid Waste facility Provided.</p> | | - |
| | | <p>❖ Anaimelagaram Village Panchayat</p> <ul style="list-style-type: none"> • No. of MSW dumping points identified: 1 Location • Population: 3007 • Total households: 982 • Qty of MSW Generated: 0.270 TPD <p>Source Collection & Segregation – Yes</p> <p>Treatment method:</p> <p>➤ Bio-Degradable Waste:</p> <p>264Kg/day Bio-degradable solid waste dumped in the compost pits and cow dung are being sprayed at regular intervals and it becomes manure after 30 days and sold to the farmers.</p> <p>➤ Non Bio – Degradable Waste:</p> <p>6 Kg/day Non Bio-degradable solid waste Segregated glass, Plastic bottles, Covers, Iron, Aluminium foil sheets etc. once in 15 days and sold to the local merchants for recycling.</p> <p>Non-recycling wastes are buried into ground.</p> <p>Plan of Action: Nil</p> <p>Solid Waste facility Provided.</p> | Rural Development & Panchayat Raj | - |

| | | | | |
|----|--|--|------------------------------------|---|
| 3. | Ground Water Quality | Generally the ground water quality not satisfied with the prescribed standards. | State Ground Water Authority, CGWB | - |
| 4 | Environmental Flow (E-flow) and Irrigation Practices | <ul style="list-style-type: none"> • Mettur dam is opened for irrigation from June 12th to January 28th based on availability of water. It is opened for drinking purpose in the remaining days. During the monsoon period at flood time the maximum flood discharge in the river has been 284606 cusecs on 08.07.1961. • An extent of 1711258 Acres of land under the jurisdiction of Water Resource Department, Trichy Region is irrigated by River Cauvery. For good irrigation practices to conserve the water, water is supplied to the crops by adopting turn system and on rotational basis. Further awareness has been created among the farmers regarding minimum utilization of water by adopting drip and sprinkler irrigation system and also alternative crops in consultation with the Agriculture and Horticulture Departments. | PWD-WRD and Irrigation Department | - |
| 5 | Flood Plain Zone (FPZ) | <ul style="list-style-type: none"> • Action will be taken up for eviction of encroachments after identification and demarcation of | PWD-WRD, Forest Department | - |

| | | | | |
|---|------------------------------------|--|--------------------------------|---|
| | | <p>FPZ with the help of Revenue Department.</p> <ul style="list-style-type: none"> • There is Agricultural Encroachment all along the River Cauvery by the farmers with plantations like Banana, Sugarcane, Turmeric and other cash crops in the Flood Plain Zone (FPZ). • Plantation and Biodiversity parks will be formed after demarcation of FPZ and removal of encroachments with the help of Revenue Department. | | |
| 6 | Encroachments along the river bank | <ul style="list-style-type: none"> • Encroachments: • District: Nagappattinam District - Nil | PWD-WRD and Revenue Department | - |

7.19 List of non-complying industries details

The industry M/s ONGC Ltd Gas Collection Station, Kuthalam Village (inside the unit premises) and M/s KAAB(KA#02) Drill Site, Kuttalam Village (Outside the unit premises near to the well) of Kuthalam Taluk shall take necessary implement measures to meet out the standards of bore well water with respect to the Drinking Water Specifications as per IS:10500-2012. (Direction to be issued).

7.20 Conclusion

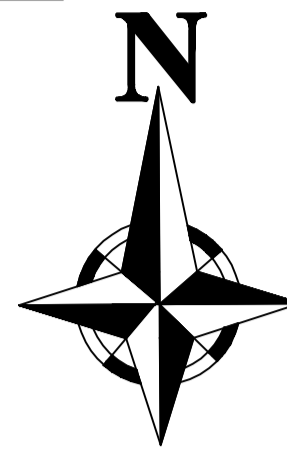
It is recommended that the Mayiladuthurai Municipality, Mayiladuthurai shall implement their action plan to the existing STP to achieve the discharge standards prescribed in the Environment (Protection) Amendment Rules, 2017 vide G.S.R.1265(E) Dated 13/10/2017. Local bodies along the River Cauvery Mayiladuthurai stretch shall remove all the Municipal solid

waste dumped near to the bank of River Cauvery and strictly adhere to the Municipal Solid Waste Management Rules, 2016.

The quality of River water in the above stretch can be improved with the following measures:

- ✓ Mayiladuthurai Municipality shall revamp Sewage Treatment Plant within the time frame as per the action plan and shall ensure that the entire sewage generated from the local body is treated and disposed off scientifically.
- ✓ Kuthalam Town Panchayat shall provide treatment system within the time frame as per the action plan and shall ensure that the entire sullage generated from the local body is treated and disposed off scientifically.
- ✓ Mathrimangalam, Sitharkadu, Moovalur, Anaimelagaram Village Panchayats Panchayat shall provide soak pits system within the time frame as per the action plan and shall ensure that the entire sewage/sullage generated from the local body is treated and disposed off scientifically
- ✓ Mayiladuthurai Municipality, Kuthalam Town Panchayat shall provide solid waste treatment facility within the time frame and shall ensure that the entire solid waste generated from the local body area including solid waste dumped along the River Bank is treated and disposed off scientifically.

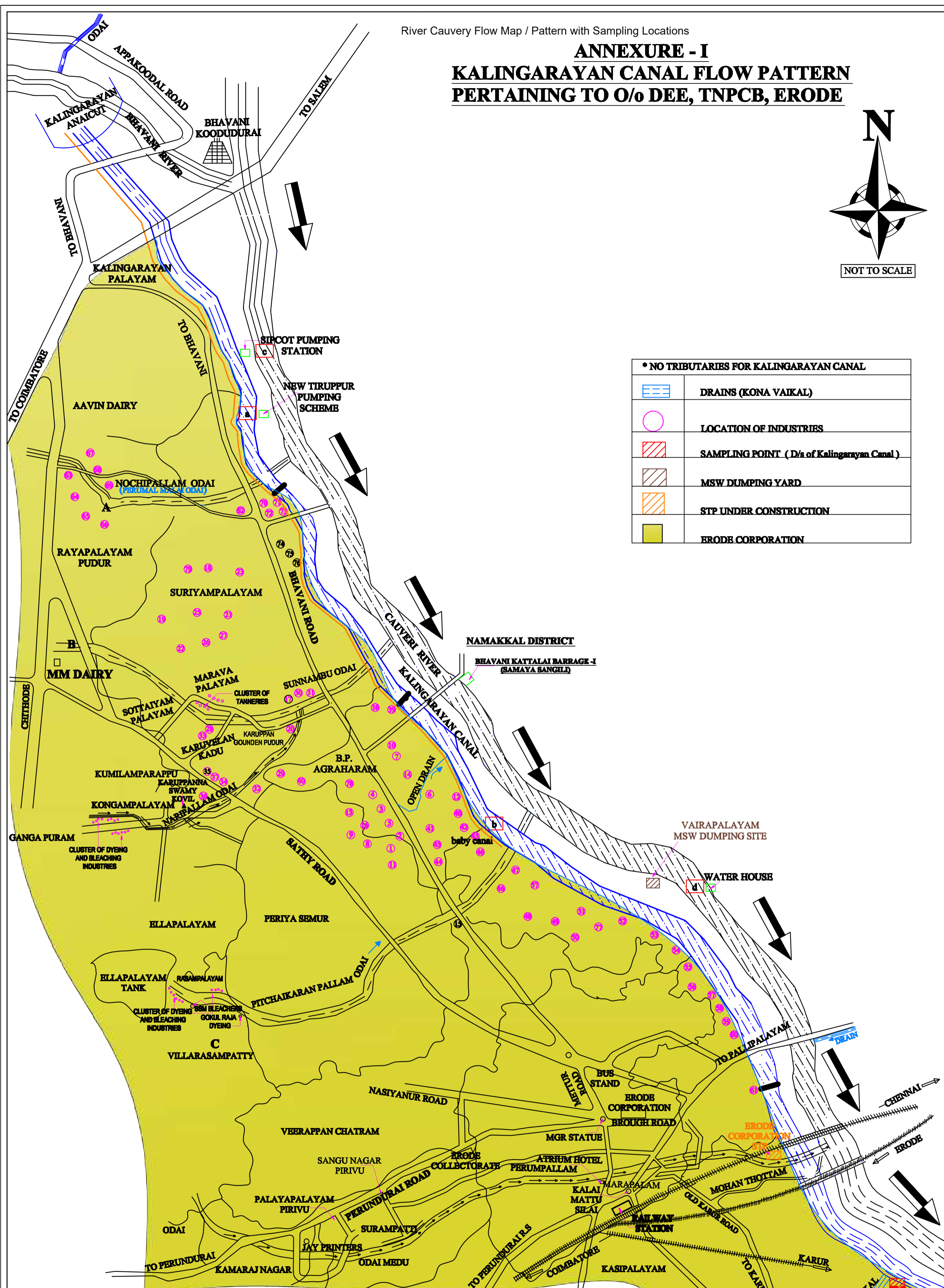
ANNEXURE - I KALINGARAYAN CANAL FLOW PATTERN PERTAINING TO O/o DEE, TNPCB, ERODE



NOT TO SCALE

* NO TRIBUTARIES FOR KALINGARAYAN CANAL

| | |
|--|--|
| | DRAINS (KONA VAIKAL) |
| | LOCATION OF INDUSTRIES |
| | SAMPLING POINT (D/s of Kalingarayan Canal) |
| | MSW DUMPING YARD |
| | STP UNDER CONSTRUCTION |
| | ERODE CORPORATION |



| SL.NO | NAME OF THE UNIT -TANNERY | SL.NO | NAME OF THE UNIT -TANNERY | SL.NO | NAME OF THE UNIT -TEXTILE | SL.NO | NAME OF THE UNIT -TEXTILE |
|-------|--|-------|--------------------------------------|-------|----------------------------------|-------|--------------------------------------|
| 1 | Bay Leathers | 19 | M.B. Leathers | 38 | Cheran textile processing | 60 | On kar textiles |
| 2 | E.K.Mohamed Ismail Sahib & Sons | 20 | Saravana Leather Processing Centre | 39 | India dyeing mill | 61 | S.C.M. Textiles process |
| 3 | D.Venkateswaran & Bros | 21 | K.Thangamuthu Gounder Tannery | 40 | Armstrong process | 62 | Rajalakshmi Textiles process |
| 4 | The Pariya Agraharam Leather Tanners Co-Op, Cottage Industries | 22 | N.Kuppans Gounder Tannery | 41 | K.R.P. Process | 63 | S.P Textiles process |
| 5 | E.K. Hejee Mohamed Meera Sahib & Sons | 23 | K.K.S.Abdul Samed Sahib Tannery | 42 | Mahaahree dyeing | 64 | Mahalakshmi dyeing |
| 6 | Rafiqueen Leather Company | 24 | K.A. Sengottaiyan Tannery | 43 | Sudhama process | 65 | Kahore dyeing |
| 7 | M.A. Bagruddeen Tannery | 25 | K.Rangasamy Gounder Tannery | 44 | Kamatchiamman dyeing | 66 | Ganga dyeing |
| 8 | Erode Fine Leather | 26 | A.M. Sidique Tannery | 45 | Shivakumaran dyeing | 67 | Moorthy dyeing |
| 9 | Kameela Tannery | 27 | S.K.M.A. Mohamed Ibrahim & Brothers. | 46 | Ganesh colours | 68 | Jai dyeing |
| 10 | Mohamed Tanning , Co. | 28 | K. Mohamed Haneeza Sahib & Sons | 47 | Mahalakshmi textiles | 69 | Angalamman dyeing |
| 11 | Jeif Leather Industries | 29 | D. Mohamed Ismail Tannery | 48 | Shalmar textiles | 70 | Pioneer Processing |
| 12 | Lead Leather | 30 | AnAn Tanners | 49 | Erode co - op textiles | 71 | Vaibhav Processing mills |
| 13 | Kamadhenu Tannery | 31 | S.A. Abdul Azeez Tannery | 50 | Jayabala Dyeing | 72 | Muthu Knit Processing |
| 14 | Sri Ranga Tannery | 32 | S.A.M. YUssoofdeen Tannery | 51 | Bharani dyeing | 73 | Vigneswara Dyeing |
| 15 | Sri Venkateswara Prime Tannery | 33 | Saikthi Exports Tannery | 52 | Vishai bharat textile | 74 | Dharani Dyeing |
| 16 | K.Ahamed Straj Brothers | 34 | R.R. Leathers | 53 | Swathi textile processing | 75 | Shaara Fabrics |
| 17 | K.K.S.K. Tanning Company (p) Ltd | 35 | K.A.S. Leather(B) Unit | 54 | Kamatchiamman bleaching & dyeing | 76 | Erode Textile Process |
| 18 | K.K.S.K. Leather Processing (p) Ltd | 36 | Saromani Tanners | 55 | Dharani process | 77 | Bharath Textile Processing |
| | | 37 | Samy Leather Tannery | 56 | Chola textiles | 78 | E.K.M.H. Abdul jaleel sahib and sons |
| | | | | 57 | Uma devi dyeing | 79 | ERO DYEING |
| | | | | 58 | Vela colours | | |
| | | | | 59 | Thiruvalluvar textiles | | |

Kalingarayan Canal Sampling Points

- B5 (Bridge 5)
- B10 (Bridge 10)

Cauvery river Sampling Points (GEMS & MINARS)

- Near Sipcot Pump House
- Near Water Works (Erode Municipality)

E1-E6 SAMPLING POINTS

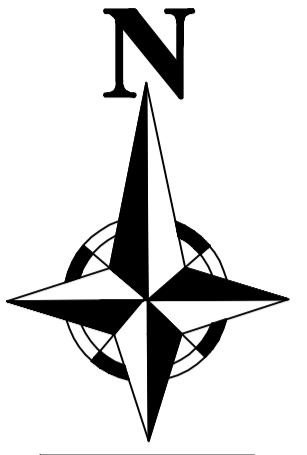
RIVER & CANAL - Blue hatched line

ODAI - Blue dashed line

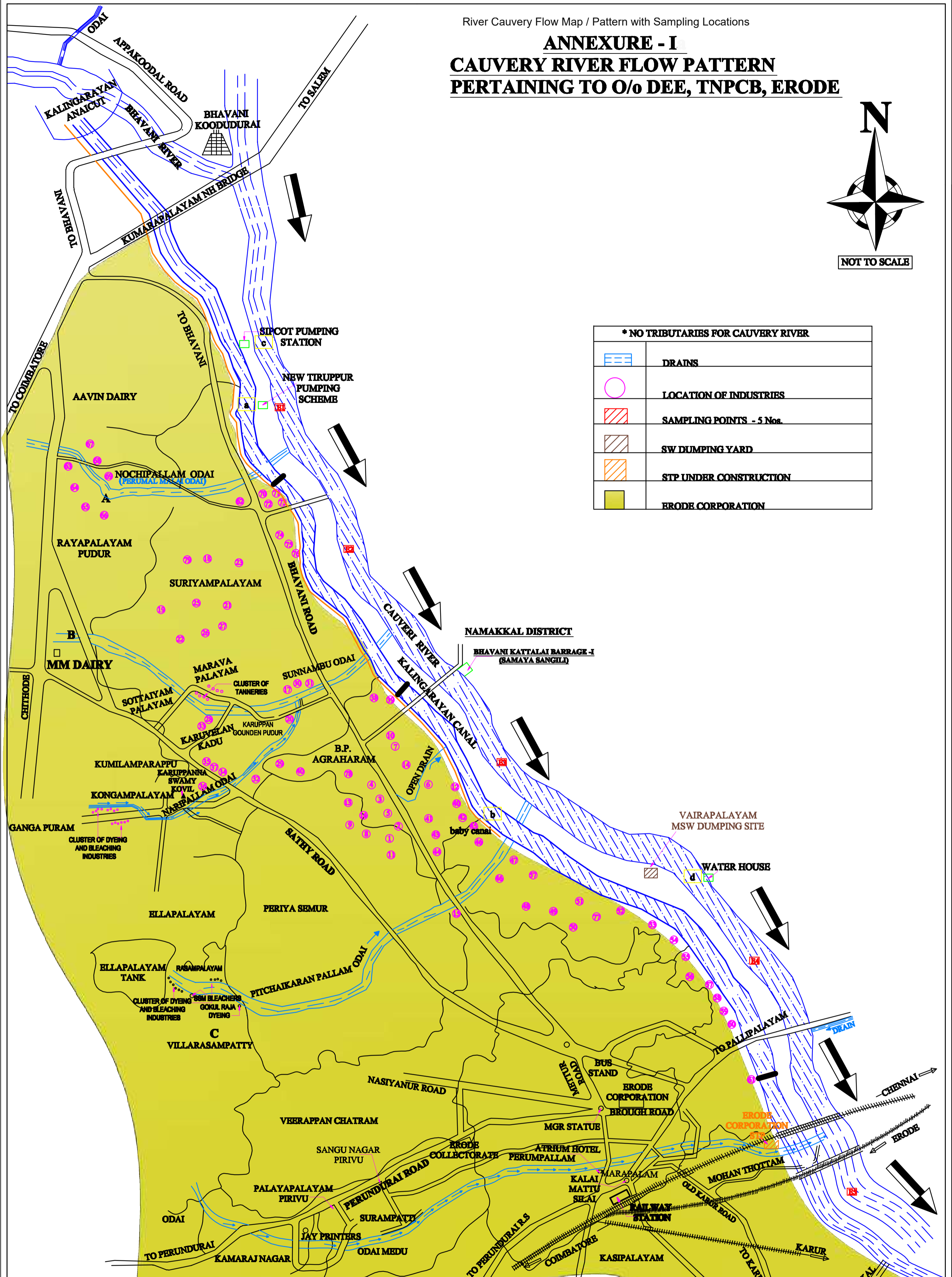
RIVER FLOW DIRECTION - Arrow

VENDIPALAYAM MSW DUMPING SITE - Yellow area with 'E6' label

ANNEXURE - I CAUVERY RIVER FLOW PATTERN PERTAINING TO O/o DEE, TNPCB, ERODE



NOT TO SCALE



* NO TRIBUTARIES FOR CAUVERY RIVER

| | |
|--|--------------------------|
| | DRAINS |
| | LOCATION OF INDUSTRIES |
| | SAMPLING POINTS - 5 Nos. |
| | SW DUMPING YARD |
| | STP UNDER CONSTRUCTION |
| | ERODE CORPORATION |

| SL.NO | NAME OF THE UNIT -TANNERY | SL.NO | NAME OF THE UNIT -TANNERY | SL.NO | NAME OF THE UNIT -TEXTILE | SL.NO | NAME OF THE UNIT -TEXTILE |
|-------|--|-------|--------------------------------------|-------|----------------------------------|-------|--------------------------------------|
| 1 | Bay Leathers | 19 | M.B. Leathers | 38 | Cheran textile processing | 60 | On kar textiles |
| 2 | E.K.Mohamed Ismail Sahib & Sons | 20 | Saravana Leather Processing Centre | 39 | India dyeing mill | 61 | S.C.M. Textiles process |
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| 8 | Erode Fine Leather | 26 | A.M. Sidique Tannery | 45 | Shivakumaran dyeing | 67 | Moorthy dyeing |
| 9 | Kameela Tannery | 27 | S.K.M.A. Mohamed Ibrahim & Brothers. | 46 | Ganesh colours | 68 | Jai dyeing |
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| 13 | Kamadhenu Tannery | 31 | S.A. Abdul Azeez Tannery | 50 | Jayabalaaji Dyeing | 72 | Muthu Knit Processing |
| 14 | Sri Ranga Tannery | 32 | S.A.M. Yuseofdeen Tannery | 51 | Bharani dyeing | 73 | Vigneswara Dyeing |
| 15 | Sri Venkateswara Prime Tannery | 33 | Saikthi Exports Tannery | 52 | Vishai bharat textile | 74 | Dharani Dyeing |
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| | | 37 | Samy Leather Tannery | 56 | Chola textiles | 78 | E.K.M.H. Abdul jaleel sahib and sons |
| | | | | 57 | Uma devi dyeing | 79 | ERO DYEING |
| | | | | 58 | Vela colours | | |
| | | | | 59 | Thiruvalluvar textiles | | |

Kalingarayan Canal Sampling Points

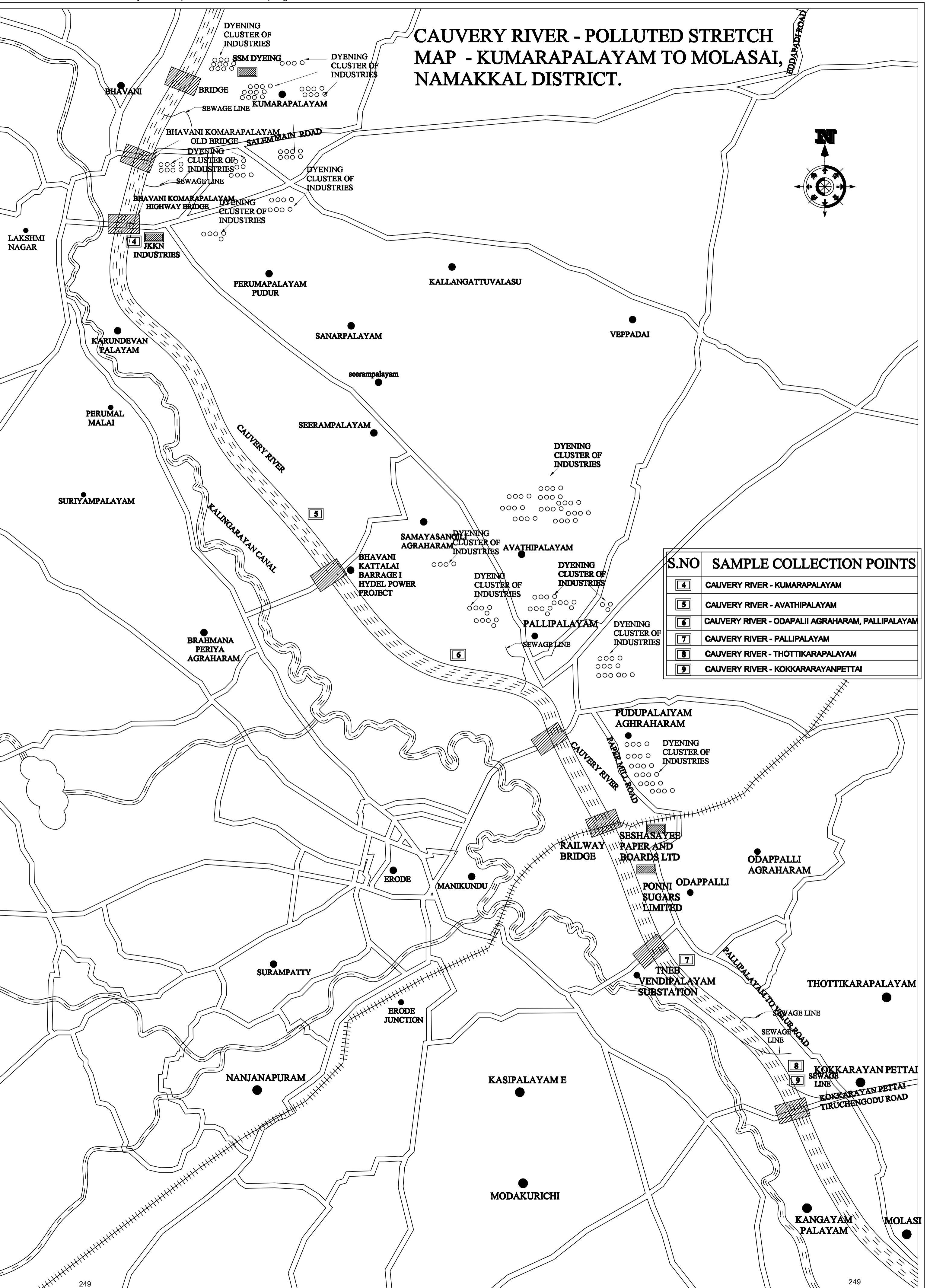
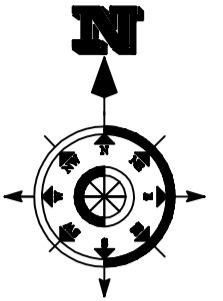
- a - B5 (Bridge 5)
- b - B10 (Bridge 10)

Cauvery river Sampling Points (GEMS & MINARS)

- c - Near Sipcot Pump House
- d - Near Water Works (Erode Municipality)

RIVER & CANAL
 ODAI
 SAMPLING POINTS
 RIVER FLOW DIRECTION

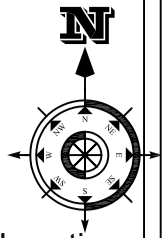
CAUVERY RIVER - POLLUTED STRETCH MAP - KUMARAPALAYAM TO MOLASAI, NAMAKKAL DISTRICT.



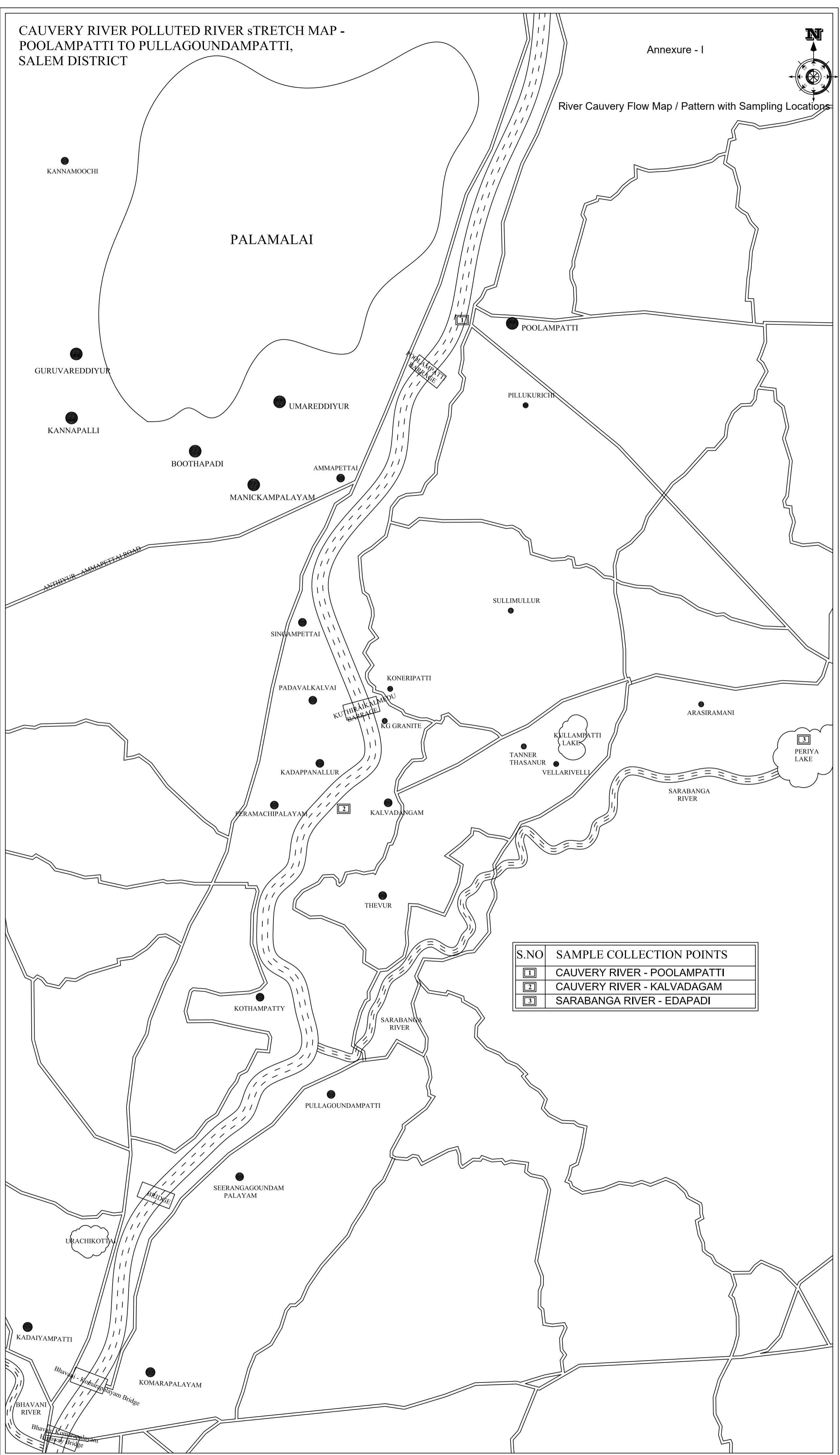
| S.NO | SAMPLE COLLECTION POINTS |
|------|--|
| 4 | CAUVERY RIVER - KUMARAPALAYAM |
| 5 | CAUVERY RIVER - AVATHIPALAYAM |
| 6 | CAUVERY RIVER - ODAPPALI AGRAHARAM, PALLIPALAYAM |
| 7 | CAUVERY RIVER - PALLIPALAYAM |
| 8 | CAUVERY RIVER - THOTTIKARAPALAYAM |
| 9 | CAUVERY RIVER - KOKKARARAYANPETTAI |

CAUVERY RIVER POLLUTED RIVER STRETCH MAP -
 POOLAMPATTI TO PULLAGOUNDAMPATTI,
 SALEM DISTRICT

Annexure - I



River Cauvery Flow Map / Pattern with Sampling Locations



| S.NO | SAMPLE COLLECTION POINTS |
|------|-----------------------------|
| 1 | CAUVERY RIVER - POOLAMPATTI |
| 2 | CAUVERY RIVER - KALVADAGAM |
| 3 | SARABANGA RIVER - EDAPADI |

Annexure - II

Annexure I

INDUSTRY DETAILS IN SALEM DISTRICT

| Sl.No | Taluk | Village | Industry Name | Consent validity | Trade effluent quantity in KLD | Disposal |
|-------|--------|------------------------------|--|------------------|--------------------------------|----------------------|
| 1 | Mettur | KULATHUR | JAYALAKSHMI INDUSTRIES | 31/3/2006 | 0 | No Trade Effluent |
| 2 | Mettur | NAVAPPATTI | SRI SAKTHI GRANITES | 31/3/2021 | 5 | Recycling to process |
| 3 | Mettur | POTTANERI | JSW STEEL LIMITED Salem Works | 31/3/2022 | 22527 | Recycling to process |
| 4 | Mettur | POTTANERI | MARUDHAR ROCKS INTERNATIONAL PVT LTD | 31/3/2020 | 50 | Recycling to process |
| 5 | Mettur | POTTANERI | JAIHIND GRANITES | 31/3/2001 | 0 | No Trade Effluent |
| 6 | Mettur | POTTANERI | SRI RAGAVENDRA MILK PRODUCT | 31/3/2005 | 12 | Onland irrigation |
| 7 | Mettur | POTTANERI NALLAKAVUNDANPATTI | METTUR THERMAL POWER STATION UNIT II | 31/3/2019 | 0 | No Trade Effluent |
| 8 | Mettur | POTTANERI NALLAKAVUNDANPATTI | R.K. IMPEX | CTE alone | 0 | No Trade Effluent |
| 9 | Mettur | POTTANERI NALLAKAVUNDANPATTI | TANSI STRUCTURAL AND GALVANISING WORKS | 31/3/1991 | 0 | No Trade Effluent |
| 10 | Mettur | POTTANERI NALLAKAVUNDANPATTI | ABIRAMI INDUSTRIES | 31/3/2022 | 0 | No Trade Effluent |
| 11 | Mettur | POTTANERI NALLAKAVUNDANPATTI | METTUR ORGANICS | 31/3/2020 | 0 | No Trade Effluent |
| 12 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SRI SIVASAKTHI INDUSTRY | 31/3/2022 | 0 | No Trade Effluent |
| 13 | Mettur | POTTANERI NALLAKAVUNDANPATTI | KHADHI SILK MODERN DYEING UNIT | 31/3/2020 | 5 | Onland irrigation |
| 14 | Mettur | POTTANERI NALLAKAVUNDANPATTI | GEE GEE KAY PRIVATE LIMITED | 31/3/2022 | 0 | No Trade Effluent |
| 15 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SRI KRISHNA PAPER INDUSTRIES | 31/3/2019 | 27.4 | Recycling to process |
| 16 | Mettur | POTTANERI NALLAKAVUNDANPATTI | NUTRI FLAVOURS PVT LTD | CTE alone | 5 | Recycling to process |
| 17 | Mettur | POTTANERI NALLAKAVUNDANPATTI | B.S. GRANITE | 31/3/2020 | 2 | Recycling to process |
| 18 | Mettur | POTTANERI NALLAKAVUNDANPATTI | CHEMPLAST SANMAR LTD Coal Yard | 31/3/2027 | 10.5 | Recycling to process |
| 19 | Mettur | POTTANERI NALLAKAVUNDANPATTI | THE MALCO ENERGY LIMITED | 31/3/2021 | 0 | No Trade Effluent |
| 20 | Mettur | POTTANERI NALLAKAVUNDANPATTI | TNSTC SALEM LIMITED METTUR BRANCH | 31/3/2020 | 1.5 | Onland irrigation |
| 21 | Mettur | POTTANERI NALLAKAVUNDANPATTI | GOMATHY INDUSTRIES | 31/3/2002 | 0 | No Trade Effluent |
| 22 | Mettur | POTTANERI NALLAKAVUNDANPATTI | GOVERNMENT HEAD QUARTERS HOSPITAL METTUR | 31/3/2019 | 0.4 | Public sewer |
| 23 | Mettur | POTTANERI NALLAKAVUNDANPATTI | MOHAN RESIDENCY | 31/3/2019 | 0.3 | Public sewer |
| 24 | Mettur | POTTANERI NALLAKAVUNDANPATTI | ARUNA METAL INDUSTRIES | 31/3/2021 | 0 | No Trade Effluent |
| 25 | Mettur | POTTANERI NALLAKAVUNDANPATTI | FIROZE FABRICATORS | CTE alone | 0 | No Trade Effluent |
| 26 | Mettur | POTTANERI NALLAKAVUNDANPATTI | CHEMPLAST SANMAR LIMITED PLANT -I | 31/3/2022 | 350 | Recycling to process |
| 27 | Mettur | POTTANERI NALLAKAVUNDANPATTI | CABOT SANMAR LIMITED PLANT-V | 31/3/2023 | 30 | Recycling to process |
| 28 | Mettur | POTTANERI NALLAKAVUNDANPATTI | CHEMPLAST SANMAR LIMITED PLANT-IV | 31/3/2020 | 200 | Inland Surface Water |

Annexure - II

| | | | | | | |
|----|--------|------------------------------|---|-----------|-------|----------------------|
| 29 | Mettur | POTTANERI NALLAKAVUNDANPATTI | MALCO ENERGY LIMITED | 31/3/2016 | 1075 | Recycling to process |
| 30 | Mettur | POTTANERI NALLAKAVUNDANPATTI | METTUR THERMAL POWER STATION I | 31/3/2017 | 35100 | Inland Surface Water |
| 31 | Mettur | POTTANERI NALLAKAVUNDANPATTI | MAG PRODUCTS INDIA PVT LTD | 31/3/2015 | 0 | No Trade Effluent |
| 32 | Mettur | POTTANERI NALLAKAVUNDANPATTI | METTUR SERVICE CENTRE | 31/3/1993 | 4 | Onland irrigation |
| 33 | Mettur | POTTANERI NALLAKAVUNDANPATTI | TNSTC LTD DIVISION -I METTUR BRANCH | NOP | 0 | No Trade Effluent |
| 34 | Mettur | POTTANERI NALLAKAVUNDANPATTI | DEDICATED WATER SUPPLY SCHEME FOR SALEM | CTE alone | 0 | No Trade Effluent |
| 35 | Mettur | POTTANERI NALLAKAVUNDANPATTI | HEAD WORKS AND WATER TREATMENT PLANT | 31/3/2016 | 0 | No Trade Effluent |
| 36 | Mettur | POTTANERI NALLAKAVUNDANPATTI | CHEMPLAST SANMAR LIMITED Plant II | 31/3/2022 | 1150 | Recycling to process |
| 37 | Mettur | POTTANERI NALLAKAVUNDANPATTI | CHEMPLAST SANMAR LIMITED Plant III | 31/3/2022 | 397 | Recycling to process |
| 38 | Mettur | POTTANRI NALAGOUNDAMPATTI | SATHYA DAIRY | CTE alone | 0 | No Trade Effluent |
| 39 | Mettur | VIRAKKALPUDUR | METTUR WATER | 31/3/2015 | 5 | Onland irrigation |
| 40 | Mettur | VIRAKKALPUDUR | METTUR MUNICIPALITY SLAUGHTER HOUSE | CTE alone | 0 | No Trade Effluent |
| 41 | Mettur | VIRAKKALPUDUR | CHEMA Co | NOP | 0 | No Trade Effluent |
| 42 | Mettur | VIRAKKALPUDUR | BIO-METHENATION GAS CUM POWER GENERATIO | 31/3/2015 | 3 | Onland irrigation |
| 43 | Mettur | VIRAKKALPUDUR | CHEMPLAST SANMAR LTD COAL POWER PLANT | 31/3/2020 | 312 | Recycling to process |
| 44 | Mettur | PottaNeri Nallagoundampatti | Mettur Sewage Treatment Plant I | CTE alone | 0 | No Trade Effluent |
| 45 | Mettur | PottaNeri Nallagoundampatti | Mettur Sewage Treatment Plant II Salem Camp | 31/3/2019 | 0 | No Trade Effluent |
| 46 | Mettur | Nangavalli | Mettur Sewage Treatment Plant III | CTE alone | 0 | No Trade Effluent |
| 47 | Mettur | POTTANERI NALLAKAVUNDANPATTI | THIRUMALAI INDUSTRIES | 31/3/2018 | 0 | No Trade Effluent |
| 48 | Mettur | POTTANERI NALLAKAVUNDANPATTI | MAHAVEER AGRO CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 49 | Mettur | POTTANERI NALLAKAVUNDANPATTI | VALARMATHI CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 50 | Mettur | POTTANERI NALLAKAVUNDANPATTI | R.K. IMPEX | CTE alone | 0 | No Trade Effluent |
| 51 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SREENIVAS CHEMICALS UNIT-II | 31/3/2028 | 0 | No Trade Effluent |
| 52 | Mettur | POTTANERI NALLAKAVUNDANPATTI | T.CHENDUR CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 53 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SRI SNEHA CHEMICAL | 30/6/2008 | 0 | No Trade Effluent |
| 54 | Mettur | POTTANERI NALLAKAVUNDANPATTI | MERCURY FINE CHEMICALS | 30/6/2008 | 0 | No Trade Effluent |
| 55 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SUN CHEMICALS AND TRADERS | 31/3/2022 | 0 | No Trade Effluent |
| 56 | Mettur | POTTANERI NALLAKAVUNDANPATTI | DERMO CHEMICALS PRIVATE LIMITED | 30/6/2015 | 0 | No Trade Effluent |
| 57 | Mettur | POTTANERI NALLAKAVUNDANPATTI | CHEMA Co | CTE alone | 0 | No Trade Effluent |
| 58 | Mettur | POTTANERI NALLAKAVUNDANPATTI | ABIRAMI INDUSTRIES | 31/3/2022 | 0 | No Trade Effluent |
| 59 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SREENIVAS CHEMICALS UNIT -I | 30/6/2015 | 0 | No Trade Effluent |
| 60 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SRI VINAYAKA CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 61 | Mettur | POTTANERI NALLAKAVUNDANPATTI | B.K.S. INDUSTRIES | 31/3/2022 | 0 | No Trade Effluent |
| 62 | Mettur | POTTANERI NALLAKAVUNDANPATTI | RAMALINGAM CHEMICALS | NOP | 0 | No Trade Effluent |
| 63 | Mettur | POTTANERI NALLAKAVUNDANPATTI | PALLAVA CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |

Annexure - II

| | | | | | | |
|----|--------|------------------------------|----------------------------------|-----------|---|-------------------|
| 64 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SUJITHA CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 65 | Mettur | POTTANERI NALLAKAVUNDANPATTI | KEERTHI CHEMICALS | 30/6/2006 | 0 | No Trade Effluent |
| 66 | Mettur | POTTANERI NALLAKAVUNDANPATTI | VISHAL CHEMICALS | 30/6/2006 | 0 | No Trade Effluent |
| 67 | Mettur | POTTANERI NALLAKAVUNDANPATTI | ANURA CHEM PRODUCTS | CTE alone | 0 | No Trade Effluent |
| 68 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SRI VENKATESWARA CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 69 | Mettur | POTTANERI NALLAKAVUNDANPATTI | JAISREE ENGINEERING WORKS | 31/3/2021 | 0 | No Trade Effluent |
| 70 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SHANMUGA CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 71 | Mettur | POTTANERI NALLAKAVUNDANPATTI | METTUR ORGANICS | 31/3/2020 | 0 | No Trade Effluent |
| 72 | Mettur | POTTANERI NALLAKAVUNDANPATTI | METRO CHEMICAL INDUSTRIES | 31/3/2007 | 0 | No Trade Effluent |
| 73 | Mettur | POTTANERI NALLAKAVUNDANPATTI | JAGAN CHEMICALS | NOP | 0 | No Trade Effluent |
| 74 | Mettur | POTTANERI NALLAKAVUNDANPATTI | RAJESWARI CHEMICALS | 31/3/2020 | 0 | No Trade Effluent |
| 75 | Mettur | POTTANERI NALLAKAVUNDANPATTI | RAJESWARI INDUSTRIES | 31/3/2021 | 0 | No Trade Effluent |
| 76 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SUN AGRO CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 77 | Mettur | POTTANERI NALLAKAVUNDANPATTI | ALAMELU MAGNESIA PRIVATE LIMITED | 31/3/2022 | 0 | No Trade Effluent |
| 78 | Mettur | POTTANERI NALLAKAVUNDANPATTI | CALCIMAG CHEMICALS INDIA P LTD | 31/3/2022 | 0 | No Trade Effluent |
| 79 | Mettur | POTTANERI NALLAKAVUNDANPATTI | ABIRAMI CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 80 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SUMANGALI CHEM INDUSTRIES | 31/3/2022 | 0 | No Trade Effluent |
| 81 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SRI SIVASAKTHI INDUSTRY | 31/3/2022 | 0 | No Trade Effluent |
| 82 | Mettur | POTTANERI NALLAKAVUNDANPATTI | UNNAMALAI CHEMICALS | 30/6/2006 | 0 | No Trade Effluent |
| 83 | Mettur | POTTANERI NALLAKAVUNDANPATTI | MANI CHEMICALS AND GRANITES | 31/3/2022 | 0 | No Trade Effluent |
| 84 | Mettur | POTTANERI NALLAKAVUNDANPATTI | KIRUTHIGAS CHEMICALS | 31/3/2019 | 0 | No Trade Effluent |
| 85 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SUJITHA CHEMICALS UNIT-II | 31/3/2019 | 0 | No Trade Effluent |
| 86 | Mettur | POTTANERI NALLAKAVUNDANPATTI | GEE GEE KAY PRIVATE LIMITED | 31/3/2022 | 0 | No Trade Effluent |
| 87 | Mettur | POTTANERI NALLAKAVUNDANPATTI | MANI AGRO CHEM | 31/3/2022 | 0 | No Trade Effluent |
| 88 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SRI MULTI MAG P Ltd | 30/6/2015 | 0 | No Trade Effluent |
| 89 | Mettur | POTTANERI NALLAKAVUNDANPATTI | RAM LAX INDUSTRIES | 31/3/2022 | 0 | No Trade Effluent |
| 90 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SRI VARI CHEM | NOP | 0 | No Trade Effluent |
| 91 | Mettur | POTTANERI NALLAKAVUNDANPATTI | MMT INDUSTRIES | 31/3/2021 | 0 | No Trade Effluent |
| 92 | Mettur | POTTANERI NALLAKAVUNDANPATTI | METTUR MAG | 31/3/2022 | 0 | No Trade Effluent |
| 93 | Mettur | POTTANERI NALLAKAVUNDANPATTI | KABALEESWAR CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 94 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SRI KUMARAN AGRO CHEMICALS | CTE alone | 0 | No Trade Effluent |
| 95 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SRI SHANKAR CHEMICALS | CTE alone | 0 | No Trade Effluent |
| 96 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SGP CHEMICALAND ENGINEERING | CTE alone | 0 | No Trade Effluent |
| 97 | Mettur | POTTANERI NALLAKAVUNDANPATTI | N.M.R.INDUSTRIES | 31/3/2022 | 0 | No Trade Effluent |
| 98 | Mettur | POTTANERI NALLAKAVUNDANPATTI | T CHENDUR INDUSTRIES | 31/3/2022 | 0 | No Trade Effluent |

Annexure - II

| | | | | | | |
|-----|--------|------------------------------|-----------------------------|-----------|---|-------------------|
| 99 | Mettur | POTTANERI NALLAKAVUNDANPATTI | BAVITHRA INDUSTRIES | 31/3/2022 | 0 | No Trade Effluent |
| 100 | Mettur | POTTANERI NALLAKAVUNDANPATTI | JOTHI CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 101 | Mettur | POTTANERI NALLAKAVUNDANPATTI | S.S. INDUSTRIES | 31/3/2022 | 0 | No Trade Effluent |
| 102 | Mettur | POTTANERI NALLAKAVUNDANPATTI | THIRUPATHI CHEMICALS | 31/3/2023 | 0 | No Trade Effluent |
| 103 | Mettur | POTTANERI NALLAKAVUNDANPATTI | THIRUMURUGAN INDUSTRIES | 31/3/2022 | 0 | No Trade Effluent |
| 104 | Mettur | POTTANERI NALLAKAVUNDANPATTI | UNIVERSAL AGRO CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 105 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SRI PALANIANDAVAR CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 106 | Mettur | POTTANERI NALLAKAVUNDANPATTI | THIRU KUMARAN AGRO CHEM | 31/3/2022 | 0 | No Trade Effluent |
| 107 | Mettur | POTTANERI NALLAKAVUNDANPATTI | TRIPAL INTERNATIONAL | 31/3/2021 | 0 | No Trade Effluent |
| 108 | Mettur | POTTANERI NALLAKAVUNDANPATTI | NAGESWARI CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |
| 109 | Mettur | POTTANERI NALLAKAVUNDANPATTI | SABARI AGRO CHEMICALS | 31/3/2022 | 0 | No Trade Effluent |

ANNEXURE-1

Annexure - II

INDUSTRY DETAILS

| Sl. No. | Name | Village | Taluk | CTE/CTO/ RCO-Valid date | Total water Consumption | Sewage Eff | Trade Eff |
|-------------------------------------|--|-----------------------------|---------------|-------------------------------|----------------------------|------------|-------------|
| Details of 17 Category Units | | | | | | | |
| | Sugar industry | | | | | | |
| 1 | PONNI SUGARS ERODE LIMITED | Odapalli Agraharam | Kumarapalayam | 31/03/2019 | 1,074.00 | 100 | 600 |
| | Paper industry | | | | | | |
| 1 | SESHASAYEE PAPER and BOARDS LIMITED | Odapalli Agraharam | Kumarapalayam | 31/03/2020 | 37,337.00 | 300 | 2,48,575.00 |
| Details of Dyeing Units | | | | | | | |
| 1 | S S M PROCESSING MILLS LIMITED | Ayyampalayam Agraharam | Kumarapalayam | 31/03/2019 | 277.6 | 25 | 700 |
| 2 | TPD CAPACITY BIO METHANATION CUM | Pallipalayam Agraharam | Kumarapalayam | 31/03/2016 | 6 | 0 | 5 |
| 3 | RAJA RATHINAS DYEING FACTORY | Samayasangili Village | Kumarapalayam | 31/03/2022 | 326.7 | 2.5 | 298.65 |
| 4 | SREE ANBURAJU TEXTILES | Kumarapalayam Village | Kumarapalayam | 31/03/2019 | 30 | 0.5 | 29.5 |
| 5 | MAHESHKUMAR TEXTILES DYEING | Komarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 9.9 | 0.5 | 9.4 |
| 6 | KANDHAN PALANI TEXTILES DYEING FACTORY | Komarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 35.5 | 1.4 | 30 |
| 7 | NAGARATHINA TEXTILES DYEING FACTORY | Kumarapalayam Amani Village | Kumarapalayam | 31/03/2003 | 31.9 | 0.45 | 23.495 |
| 8 | RAGHUL RAJA TEXTILES | Komarapalayam Agraharam | Kumarapalayam | 31/03/2002 | 2.46 | 0.5 | 25.4 |
| 9 | AMBIKA TEXTILES DYEING FACTORY | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 25.9 | 0.5 | 25.4 |
| 10 | IDEAL PROCESS | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 206.5 | 1 | 20.5 |
| 11 | SANGU SANKER TEX | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 20.55 | 0.25 | 20.3 |
| 12 | SRI KALIAMMAN DYEING FACTORY | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 25.5 | 0.5 | 25.45 |
| 13 | KRISHNA KUMAR TEXTILES | Komarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 17.9 | 0.5 | 14.5 |
| 14 | INDHIRANI TEXTILES DYEING FACTORY | Komarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 0 | 0.25 | 15.2 |
| 15 | K.SHANMUGA SUNDARAM M. VENKATESAN D.F. | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 15.55 | 0.5 | 25.4 |
| 16 | SELLIAMMAN LUNGIE COMPANY | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 15.45 | 0.25 | 15.2 |
| 17 | AMMAN TRADERS | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 15.7 | 0.5 | 15.2 |
| 18 | SRI SHANMUGA TRADERS | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 10.45 | 0.25 | 10.2 |
| 19 | SRI KANDHAN RUGS AND EXPORTS P LTD | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 76 | 0.8 | 75 |
| 20 | Muralidharan Dyeing Formerly G.K.FABRICS | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 30 | 0.5 | 29.5 |

Annexure - II

| Sl. No. | Name | Village | Taluk | CTE/CTO/RCO-Valid date | Total water Consumption | Sewage Eff | Trade Eff |
|---------|-------------------------------------|-----------------------------|---------------|------------------------|-------------------------|------------|-----------|
| 21 | UNITED PROCESSORS | Kuppandalalayam Village | Kumarapalayam | 31/03/2019 | 13.32 | 3 | 324 |
| 22 | SUBBULAKSHMI LUNGIE COMPANY DYEING | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 25.9 | 0.5 | 25.4 |
| 23 | KARUPPANNA GOUNDER DYEING | Komarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 10.25 | 0.2 | 4 |
| 24 | SIVASAKHTI TEX | Komarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 10.5 | 0.5 | 10 |
| 25 | JANAPREETHI TEX FABRICS | Ayyampalayam Agraharam | Kumarapalayam | 31/03/2019 | 1.11 | 0.5 | 25.4 |
| 26 | SRI RAGAVENDRA DYEING FACTORY | Komarapalayam amani village | Kumarapalayam | 31/03/2019 | 5.75 | 0.5 | 7.75 |
| 27 | SUN YARN PROCESSORS | Komarapalayam Village | Kumarapalayam | 31/03/2022 | 233 | 4.5 | 198.5 |
| 28 | CHAKRAA MAARK LUNGI COMPANY | Komarapalayam Village | Kumarapalayam | 31/03/2020 | 43.55 | 0.5 | 25.4 |
| 29 | SREE SRINIVASA PROCESSING | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 26.1 | 0.2 | 25.9 |
| 30 | K B M M TEXTILES | Komarapalayam Agraharam | Kumarapalayam | 31/03/2020 | 99 | 1 | 94.41 |
| 31 | SRI NITHI TEXTILES | Kaliyanur Village | Kumarapalayam | 31/03/2019 | 108.8 | 0.75 | 100 |
| 32 | JUPITER INDUSTRIES | Komarapalayam Agraharam | Kumarapalayam | 31/03/2022 | 105.4 | 2.5 | 100 |
| 33 | SIVASAKTHI SALAVAI SALAI | Komarapalayam Agraharam | Kumarapalayam | 31/03/2000 | 25.3 | 0.3 | 25 |
| 34 | Venkatesh Tex Unit III | Komarapalayam Agraharam | Kumarapalayam | 31/03/2021 | 25.45 | 0.5 | 20.5 |
| 35 | SAI NAATHI FABRICS | Samayasangili Agraharam | Kumarapalayam | 10-04-2022 | 200 | 1 | 200 |
| 36 | S.GUNASEKARAN DYEING | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 15.45 | 0.25 | 15.12 |
| 37 | VENKATESH TEX SAYA SALAI | Komarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 36.5 | 0.5 | 30 |
| 38 | L.A.D. SUBRAMANIAM LUNGIE COMPANY | Komarapalayam Village | Kumarapalayam | 31/03/2015 | 30.5 | 0.5 | 30 |
| 39 | VISWAS TEXTILES | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 11 | 0.4 | 10.5 |
| 40 | GOLDEN TEXTILE PROCESS | Kuppandalalayam Village | Kumarapalayam | 31/03/2019 | 222 | 2.5 | 200 |
| 41 | VENKATESH TEX UNIT II | Komarapalayam Village | Kumarapalayam | 31/03/2021 | 40.6 | 0.5 | 40 |
| 42 | SENTHILKUMAR TEXTILE | Komarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 50.5 | 0.45 | 50 |
| 43 | SRI DHANALAKSHMI PROCESSING(FORMELY | Komarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 147 | 0.5 | 135.2 |
| 44 | SRI LAKSHMI BLEACHING | Samayasangili Agraharam | Kumarapalayam | 31/03/2019 | 2.48 | 0.5 | 50 |
| 45 | CHITRA BLEACHING | Samayasangili Agraharam | Kumarapalayam | 31/03/2019 | 237.25 | 0.5 | 227.68 |
| 46 | SIVA CHITHRA DYEING FACTORY | Samayasangili Agraharam | Kumarapalayam | 31/03/2019 | 51.75 | 0.45 | 50 |
| 47 | JKK TEXTILES PROCESSING MILLS P LTD | Kumarapalayam Village | Kumarapalayam | 31/03/2019 | 40.52 | 25 | 94.36 |
| 48 | SUBBULAKSHMI TEXTILES | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 21.3 | 0.3 | 21 |
| 49 | S.S.S. LUNGIE COMPANY | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 15.7 | 0.5 | 15.2 |
| 50 | PRIYA TEX | Komarapalayam Village | Kumarapalayam | 31/03/2019 | 25.95 | 0.5 | 25.35 |

Annexure - II

| Sl. No. | Name | Village | Taluk | CTE/CTO/RCO-Valid date | Total water Consumption | Sewage Eff | Trade Eff |
|---------|--|-------------------------|---------------|------------------------|-------------------------|------------|-----------|
| 51 | SUPER FINE BLEACHING COMPANY LIMITED | Samayasangili Agraharam | Kumarapalayam | 31/03/2023 | 12.05 | 0.25 | 810 |
| 52 | SRI SARASWATHI DYEINGS | Kumarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 16.5 | 1.8 | 15 |
| 53 | AMMAN PROCESSOR | Kumarapalayam Agraharam | Kumarapalayam | 08-03-2023 | 210 | 0.5 | 202.355 |
| 54 | Shri Ganesha Textiles | Kumarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 12.15 | 0.55 | 180.1 |
| 55 | JAYA LUNGI COMPANY | Kumarapalayam Agraharam | Kumarapalayam | 31/03/2017 | 3.5 | 0.4 | 50.2 |
| 56 | N K Tex | Samayasangili Agraharam | Kumarapalayam | 31/03/2022 | 0 | 0 | 0 |
| 57 | AKHIL FAB | Samayasangili Agraharam | Kumarapalayam | 31/03/2022 | 5.55 | 1 | 60 |
| 58 | Raj Bleaching | Pallipalayam Agraharam | Kumarapalayam | 31/03/2022 | 101 | 0.9 | 100 |
| 59 | Selliyandi Amman Process | Samayasangili Agraharam | Kumarapalayam | 31/03/2022 | 58.6 | 0.5 | 49.58 |
| 60 | LAKSHMI TEXTILES | Komarapalayam Agraharam | Kumarapalayam | 31/03/2019 | 38.6 | 0.5 | 30 |
| 61 | THIRUMURUGAN COMPANY | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 30.35 | 0.5 | 25 |
| 62 | R CHAMARAJAN DYEING FACTORY | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 25.8 | 0.5 | 25.3 |
| 63 | K SUBRAMANIA SAYA SALAI | Kaliyanoor | Kumarapalayam | 31/03/2019 | 6.34 | 0.5 | 10 |
| 64 | DHANALAKSHMI TEXTILES | Pallipalayam Village | Kumarapalayam | 30/06/2002 | 7.8 | 1 | 2 |
| 65 | IYYAPPA DYEING FACTORY | kaliyanoor | Kumarapalayam | 31/03/2019 | 8.8 | 0.45 | 20 |
| 66 | SHREE RAJA RAJESWARI TEXTILES | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 36.6 | 0.5 | 30 |
| 67 | SRI MURUGAN DYEING | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 3.45 | 0.75 | 125 |
| 68 | KUMARAVEL DYEING | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 6.25 | 0.2 | 40 |
| 69 | A.S. PALANISAMY SAYA SALAI | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 30 | 0.5 | 29.5 |
| 70 | R.K. SIVANANTHAM SAYA SALAI | Pallipalayam Village | Kumarapalayam | 31/03/2001 | 35.85 | 0.45 | 29.19 |
| 71 | MURUGAN DYEING | Pudupalayam Agraharam | Kumarapalayam | 31/03/2019 | 7.7 | 0.2 | 7.5 |
| 72 | NEELAGIRIS TEXTILES | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 212.7 | 2.5 | 50.75 |
| 73 | K. SHANMUGAM DYEING FACTORY | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 13 | 0.5 | 10 |
| 74 | SRI BANNARI AMMAN SALAVAI SALAI | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 51.5 | 0.5 | 50 |
| 75 | THANGALAKSHMI TEXTILES | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 75.5 | 1 | 75 |
| 76 | P R M TEXTILE PROCESSING | Kaliyanoor | Kumarapalayam | 31/03/2019 | 34.62 | 0.5 | 29.32 |
| 77 | SREE DHEVE MILL | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 8.3 | 1 | 150 |
| 78 | SRI RAGHAVA DYEING | Kaliyanur Village | Kumarapalayam | 31/03/2019 | 58.6 | 0.5 | 50 |
| 79 | JAYAKARUPANNA SALAVAI SALAI FORMERLY | Kaliyanur Village | Kumarapalayam | 31/03/2020 | 2.72 | 0.75 | 50 |
| 80 | SRI VIJAYA SELVA GANAPATHY SALAVAI SALAI | Kaliyanur Village | Kumarapalayam | 31/03/2006 | 10.5 | 0.5 | 10 |

Annexure - II

| Sl. No. | Name | Village | Taluk | CTE/CTO/RCO-Valid date | Total water Consumption | Sewage Eff | Trade Eff |
|---------|-----------------------------------|------------------------|---------------|------------------------|-------------------------|------------|-----------|
| 81 | SREE LAKSHMI BALAJI BLEACHING | Kaliyanoor | Kumarapalayam | 31/03/2019 | 51 | 1 | 50.24 |
| 82 | SELVALAKSHMI BLEACHING AND DYEING | Pallipalayam Agraharam | Kumarapalayam | 31/03/2019 | 25.6 | 0.45 | 25.51 |
| 83 | VENKATESWARA BLEACHING | Kaliyanur Village | Kumarapalayam | 31/03/2019 | 9.28 | 0.5 | 50 |
| 84 | VYSHNAVE PROCESS | Pallipalayam Agraharam | Kumarapalayam | 31/03/2019 | 68.6 | 0.5 | 60 |
| 85 | P.S. KANDASAMY DYEING | Pallipalayam | Kumarapalayam | 31/03/2019 | 31.4 | 0.5 | 25.4 |
| 86 | KALIYANNA GOUNDER SAYA SALAI | Pudupalayam Agraharam | Kumarapalayam | 31/03/2019 | 114.5 | 2.5 | 104 |
| 87 | OM SAKTHI TEXTILES SAYA SALAI | Pudupalayam Agraharam | Kumarapalayam | 31/03/2019 | 173 | 3 | 153 |
| 88 | SRI ANNAI TRADING CO | Kaliyanoor | Kumarapalayam | 31/03/2001 | 25.9 | 0.4 | 25.4 |
| 89 | GANESAN DYEING | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 108.8 | 0.75 | 24 |
| 90 | RMS DYEING | Pudupalayam | Kumarapalayam | 31/03/2019 | 4.46 | 0.5 | 20 |
| 91 | SRI LAKSHMI PROCESS | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 31.5 | 1 | 30 |
| 92 | SRI THIRUMALAI AMMAN TRADERS | Kaliyanur Village | Kumarapalayam | 31/03/2019 | 1.55 | 0.75 | 100 |
| 93 | VENKATESH DYEING | Kaliyanur Village | Kumarapalayam | 31/03/2018 | 6.45 | 1 | 100 |
| 94 | THE PREMIER TEX PROCESS | Kaliyanur Village | Kumarapalayam | 31/03/2011 | 47 | 1.5 | 45 |
| 95 | QUALITY PROCESSING | Kaliyanur Village | Kumarapalayam | 30/06/2010 | 57.5 | 1.4 | 100 |
| 96 | SUREKA TEXTILE PROCESSING | Pallipalayam Village | Kumarapalayam | 31/03/2022 | 74.4 | 1.5 | 70 |
| 97 | VETRIVEL PROCESS | Pallipalayam Agraharam | Kumarapalayam | 31/03/2019 | 120 | 1.25 | 120.24 |
| 98 | A ONE TEXTILE PROCESS | Pallipalayam Agraharam | Kumarapalayam | 31/03/2020 | 201.5 | 1.25 | 200.5 |
| 99 | MUTHU BLEACHING | kaliyanoor | Kumarapalayam | 31/03/2019 | 47 | 1.25 | 303.2 |
| 100 | SUNDARAM PROCESS | Pallipalayam Agraharam | Kumarapalayam | 29/12/2017 | 6.45 | 0.75 | 30.32 |
| 101 | N. PALANISAMY SAYA SALAI | Kaliyanur Village | Kumarapalayam | 31/03/2019 | 50.8 | 0.75 | 50 |
| 102 | SARASWATHY DYEING FACTORY | Pallipalayam Agraharam | Kumarapalayam | 31/03/2022 | 55 | 0.9 | 50.2 |
| 103 | A.V.R. DYEING | kaliyanoor | Kumarapalayam | 31/03/2019 | 15.5 | 1 | 13.5 |
| 104 | SREE DEEPA DYEING | Pallipalayam Agraharam | Kumarapalayam | 31/03/2000 | 51.5 | 0.5 | 50.5 |
| 105 | VIJAYA DYEING | Pallipalayam Agraharam | Kumarapalayam | 31/03/2019 | 25.9 | | 25.4 |
| 106 | VELAPPAN SAYA SALAI | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 32.75 | 0.5 | 32.25 |
| 107 | VIJAYALAKSHMI DYEING | Ayyampalayam Agraharam | Kumarapalayam | 31/03/2019 | 30.4 | 0.4 | 30 |
| 108 | Vari Colours | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 38.5 | 0.4 | 30 |
| 109 | SENBAGAM TEXTILES | Pallipalayam Agraharam | Kumarapalayam | 31/03/2019 | 77 | 1 | 76 |
| 110 | JAYA MURUGAN SALAVAI SALAI | Pallipalayam Village | Kumarapalayam | 31/03/1999 | 15.6 | 0.5 | 15.1 |

Annexure - II

| Sl. No. | Name | Village | Taluk | CTE/CTO/ RCO-Valid date | Total water Consumption | Sewage Eff | Trade Eff |
|---------|---|-----------------------------|---------------|-------------------------------|----------------------------|------------|-----------|
| 111 | DHANDAYUTHAPANI SAYA SALAI | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 72.75 | 0.75 | 67.45 |
| 112 | P PALANIMUTHU SAYA SALAI | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 33.75 | 0.6 | 32.25 |
| 113 | MUTHAIAH PALAYKOT COMPANY DY.FACTORY | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 25.9 | 0.5 | 25.4 |
| 114 | WINTEX PROCESSING MILLS FORMERLY | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 8.42 | 1 | 200 |
| 115 | SRI CHERAN DYEING | kaliyanoor | Kumarapalayam | 31/03/2019 | 15.15 | 0.4 | 13.62 |
| 116 | PONNUSAMY SAYA SALAI | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 14.02 | 0.55 | 10 |
| 117 | THANGAM DYEING | Pallipalayam Agraharam | Kumarapalayam | 31/03/2001 | 20.5 | 0.5 | 20 |
| 118 | P R MANOHARAN DYEING | kaliyanoor | Kumarapalayam | 31/03/2019 | 51 | 1 | 1500 |
| 119 | BALAJEE TEXTILES | Kadachanallur | Kumarapalayam | 31/03/2019 | 30.6 | 0.55 | 30 |
| 120 | RAMESH TRADERS | Pallipalayam Village | Kumarapalayam | 31/03/2019 | 20.4 | 0.4 | 20 |
| 121 | SREE SIVASAKTHI BLEACHING UNIT MILLS | kaliyanoor | Kumarapalayam | 31/03/2019 | 108.24 | 0.5 | 100 |
| 122 | SUNLINE TEXTILE PROCESSERS | kaliyanoor | Kumarapalayam | 31/03/2019 | 102 | 1.5 | 100 |
| 123 | R K Bleaching | kaliyanoor | Kumarapalayam | 11-06-2022 | 50.6 | 0 | 50 |
| 124 | Kumar Saya salai | Pallipalayam Agraharam | Kumarapalayam | 31/03/2022 | 0 | 0 | 0 |
| 125 | Samy Bleaching | Kumarapalayam Amani Village | Kumarapalayam | 31/03/2022 | 157 | 0.9 | 150.2 |
| 126 | Sri Vinayaga process | Kumarapalayam Agraharam | Kumarapalayam | 31/03/2022 | 0 | 0 | 0 |
| 127 | K R Parasurama Pillai Saya Salai | Pallipalayam Agraharam | Kumarapalayam | 31/03/2022 | 0 | 0 | 0 |
| 128 | P R Manoharan Salavai Salai | kaliyanoor | Kumarapalayam | 31/03/2019 | 51 | 0 | 22.395 |
| 129 | KOMARAPALAYAM MUNICIPALITY SLAUGHTER HO | Kumarapalayam Agraharam | Kumarapalayam | 31/03/2017 | 5.25 | 0.2 | 5 |
| 130 | MODERN SLAUGHTER HOUSE PALLIPALAYAM | Pallipalayam Village | Kumarapalayam | 31/03/2015 | 6.5 | 0.01 | 6 |
| 131 | SREE RANGAN ENGINEERING INDUSTRY | Komarapalayam Village | Kumarapalayam | 31/03/2020 | 0.33 | 0.33 | 0 |
| 132 | SREE MURUGAN FOUNDARY INDUSTRY | Komarapalayam Village | Kumarapalayam | 31/03/2020 | 0.2 | 0.2 | 0 |
| 133 | SENTHIL NURSING HOME | Kumarapalayam Agraharam | Kumarapalayam | 30/06/2016 | 0.2 | 0.2 | 0 |
| 134 | KAY PEE TEX PROCESS | Samayasangili Agraharam | Kumarapalayam | 20-06-2018 | 210.6 | 0.5 | 200 |

Annexure - II

| Sl. No. | Name | Village | Taluk | CTE/CTO/ RCO-Valid date | Total water Consumption | Sewage Eff | Trade Eff |
|---------|------|---------|-------|-------------------------------|----------------------------|------------|-----------|
|---------|------|---------|-------|-------------------------------|----------------------------|------------|-----------|

Annexure - II

| Sl. No. | Name | Village | Taluk | CTE/CTO/ RCO-Valid date | Total water Consumption | Sewage Eff | Trade Eff |
|---------|------|---------|-------|-------------------------------|----------------------------|------------|-----------|
|---------|------|---------|-------|-------------------------------|----------------------------|------------|-----------|

Annexure - III - Report of Analysis of samples collected in River Cauvery

| RIVER CAUVERY, METTUR | | |
|------------------------------|---------------------------------|----------------------|
| Sl. No. | CORE PARAMETERS | NOVEMBER-2018 |
| 1 | pH Values | 27 |
| 2 | Conductivity (μ mhos/cm) | 7.77 |
| 3 | Dissolved Oxygen Demand mg/l | 239 |
| 4 | Bio Chemical Oxygen Demand mg/l | 3.5 |
| 5 | Nitrates – N mg/l | 0.6 |
| 6 | Ammonia – N mg/l | 0.407 |
| 7 | Fecal Coliform MPN/100 ml | 0.56 |
| 8 | Total Coliform MPN/100 ml | 27 |
| 9 | Instantaneous Discharge | 110 |
| 10 | Velocity of Flow | 2000 |
| Sl. No. | GENERAL PARAMETERS | |
| 1 | Turbidity | 3 |
| 2 | pH Alkalinity mg/l | <1 |
| 3 | Total Alkalinity mg/l | 56 |
| 4 | Chloride mg/l | 18 |
| 5 | Chemical Oxygen Demand mg/l | 16 |
| 6 | Total Kjehl. Nitrogen mg/l | 1.12 |
| 7 | Hardness as CaCO ₃ | 80 |
| 8 | Calcium mg/l | 22 |
| 9 | Sulphate mg/l | 3.52 |
| 10 | Sodium mg/l | 13 |
| 11 | Total Dissolved Solids mg/l | 188 |
| 12 | Total fixed Solids mg/l | 168 |
| 13 | Total Suspended Solids mg/l | 16 |
| 14 | Phosphate mg/l | 0 |
| 15 | Boron mg/l | <0.002 |
| 16 | Magnesium mg/l | 6 |
| 17 | Potassium mg/l | 2 |
| 18 | Fluoride mg/l | 0.156 |
| 19 | Nitrate | 0.091 |

Annexure - III

ANNEXURE- II

MTPS-I DATE OF COLLECTION 23.11.2018

| Sl. No. | CORE PARAMETERS | Chinnakavur | Near DM Plant | Near Canteen | Near Stores | Ash Dyke outlet |
|---------|-----------------|-------------|---------------|--------------|-------------|-----------------|
| 1 | pH Values | 7.28 | 6.98 | 6.52 | 7.34 | 7.34 |
| 2 | TSS mg/l | 8 | 40 | 64 | 8 | 8 |
| 3 | TDS | 172 | 184 | 148 | 176 | 168 |
| 4 | Chloride | 21 | 25 | 20 | 24 | 20 |
| 5 | Sulphate | 18 | 4 | <5 | 16 | 14 |
| 6 | Oil & Grease | <4 | <4 | 9 | <4 | <4 |
| 7 | BOD | <2 | 4 | 30 | 2.2 | <2 |
| 8 | COD | 16 | 40 | 288 | 16 | 16 |

Annexure - III

ANNEXURE-II

MTPS-II DATE OF COLLECTION 23.11.2018

| Sl. No. | CORE PARAMETERS | Outlet | Out let |
|---------|---------------------------|--------|---------|
| 1 | pH Values | 7.54 | 7.05 |
| 2 | TSS mg/l | 8 | 28 |
| 3 | TDS | 636 | — |
| 4 | Chloride | 110 | — |
| 5 | Sulphate | 234 | — |
| 6 | Oil & Grease | <4 | — |
| 7 | BOD | <2 | 2.4 |
| 8 | COD | 16 | 16 |
| 9 | Ammonical – N mg/l | — | <2 |
| 10 | Total Nitrogen | — | 0.337 |
| 11 | Fecal Coliform MPN/100 ml | — | 32 |
| 12 | Total Coliform MPN/100 ml | — | 2 |

Annexure - III **(KARUR DISTRICT)**

**CONSOLIDATED STATEMENT OF THE ROA OF MINARS SAMPLES COLLECTED AT RIVER CAUVERY PUGALUR /
THIRUMUKKUDALUR, KARUR DISTRICT.**

| Sl. No. | Core Parameters | January 2018 | | February 2018 | | March 2018 | | June 2018 | | July 2018 | | August 2018 | | September 2018 | | October 2018 | |
|---------------|-----------------------------|--------------|-----------------|---------------|-----------------|------------|-----------------|-----------|-----------------|-----------|-----------------|-------------|-----------------|----------------|-----------------|--------------|-----------------|
| | | Pugalur | Thirumukkudalur | Pugalur | Thirumukkudalur | Pugalur | Thirumukkudalur | Pugalur | Thirumukkudalur | Pugalur | Thirumukkudalur | Pugalur | Thirumukkudalur | Pugalur | Thirumukkudalur | Pugalur | Thirumukkudalur |
| 1 | Temperature | 28 | 28 | 29 | 29 | 30 | 30 | 29 | 29 | 30 | 30 | 32 | 32 | 30 | 30 | 30 | 30 |
| 2 | pH Values | 7.69 | 7.85 | 7.69 | 7.81 | 7.70 | 7.73 | 7.74 | 8.03 | 8.21 | 8.22 | 7.43 | 7.55 | 7.33 | 7.47 | 7.97 | 8.01 |
| 3 | Conductivity (umhos/cm) | 615 | 542 | 974 | 708 | 1008 | 761 | 942 | 1168 | 823 | 953 | 195 | 204 | 206 | 222 | 673 | 654 |
| 4 | Dissolved Oxygen mg/l | 7 | 7.2 | 8.3 | 8.1 | 6.2 | 6.9 | 7.1 | 6.8 | 8 | 7.2 | 7.6 | 7.2 | 6.6 | 6.1 | 7.8 | 7.0 |
| 5 | Bio Chem. Oxy Demand mg/l | 2.2 | 1.8 | 0.8 | 0.7 | 1.0 | 0.7 | 2.4 | 3.0 | 6 | 5 | 1.9 | 2.5 | 0.8 | 0.9 | 0.8 | 1.2 |
| 6 | Nitrates – N mg/l | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.521 | 0.353 | 0.386 | 0.271 | 0.414 | 0.486 | 0.364 | 0.329 |
| 7 | Ammonia – N mg/l | 0.84 | 0.56 | 1.12 | 1.12 | 2.24 | 1.68 | 1.68 | 2.24 | 1.68 | 2.24 | 0.56 | 0.56 | 1.12 | 1.68 | 1.12 | 1.12 |
| 8 | Fecal Coliform MPN/100 ml | 170 | 140 | 170 | 130 | 210 | 170 | 700 | 840 | 460 | 490 | 210 | 230 | 220 | 270 | 270 | 260 |
| 9 | Total Coliform MPN/100 ml | 580 | 540 | 460 | 410 | 580 | 470 | 1700 | 2100 | 1200 | 1400 | 630 | 700 | 700 | 790 | 790 | 700 |
| Sl. No | General Parameters | | | | | | | | | | | | | | | | |
| 1 | Turbidity (NTU) | 3.42 | 5.84 | 2.47 | 4.95 | 3.70 | 1.99 | 8.03 | 4.81 | 2.00 | 2.30 | 9.3 | 9.1 | 21.1 | 15.7 | 5 | 11 |
| 2 | Ph. Alkalinity mg/l | 8 | 8 | 12 | 16 | 16 | 12 | 8 | 6 | 16 | 8 | <1 | <1 | <1 | <1 | <1 | <1 |
| 3 | Total Alkalinity mg/l | 212 | 208 | 232 | 192 | 240 | 160 | 208 | 208 | 206 | 220 | 76 | 72 | 60 | 64 | 164 | 160 |
| 4 | Chloride mg/l | 89 | 74 | 135 | 96 | 159 | 113 | 164 | 208 | 153 | 161 | 22 | 22 | 27 | 28 | 116 | 110 |
| 5 | Chemical Oxygen Demand mg/l | 24 | 16 | 16 | 16 | 8 | 8 | 24 | 32 | 48 | 24 | 16 | 24 | 16 | 16 | 16 | 16 |
| 6 | Total Kjehl. Nitrogen mg/l | 1.68 | 1.12 | 2.24 | 2.24 | 5.6 | 4.48 | 2.24 | 3.36 | 3.36 | 4.48 | 1.68 | 2.24 | 2.24 | 3.36 | 2.24 | 2.24 |
| 7 | Hardness mg/l | 196 | 184 | 288 | 196 | 290 | 208 | 280 | 300 | 304 | 340 | 144 | 114 | 124 | 120 | 220 | 204 |
| 8 | Calcium mg/l | 47 | 40 | 51 | 35 | 50 | 45 | 48 | 48 | 48 | 50 | 27 | 25 | 27.2 | 30.5 | 49.7 | 38.5 |
| 9 | Sulphate mg/l | 46 | 42 | 64 | 46 | 72 | 64 | 105 | 121 | 23 | 31 | 3.74 | 6.16 | 6.93 | 8.3 | 41 | 42 |
| 10 | Sodium mg/l | 76 | 61 | 102 | 81 | 118 | 94 | 126 | 150 | 120 | 130 | 14 | 14 | 17.3 | 18.2 | 70.8 | 65.9 |
| 11 | Total Dissolved Solids mg/l | 524 | 496 | 700 | 612 | 764 | 540 | 688 | 824 | 632 | 676 | 176 | 168 | 176 | 188 | 488 | 464 |

Annexure - III

| | | | | | | | | | | | | | | | | | |
|----|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 12 | Total Fixed Solids mg/l | 448 | 388 | 584 | 432 | 684 | 504 | 656 | 788 | 580 | 640 | 148 | 156 | 156 | 168 | 456 | 436 |
| 13 | Total Suspended Solids mg/l | 4 | 4 | 8 | 4 | 4 | 4 | 16 | 20 | 8 | 8 | 4 | 4 | 24 | 36 | 8 | 16 |
| 14 | Phosphate mg/l | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.50 | 0.51 | <0.5 | <0.5 | 0.199 | 0.218 | 0.167 | 0.176 | 0.213 | 0.194 |
| 15 | Boron mg/l | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| 16 | Magnesium mg/l | 19 | 20 | 39 | 26 | 40 | 23 | 39 | 44 | 45 | 52 | 18 | 13 | 13.6 | 10.7 | 23.3 | 26.2 |
| 17 | Potassium mg/l | 7 | 6 | 10 | 7 | 17 | 18 | 11 | 12 | 9 | 10 | 3 | 3 | 2.8 | 2.9 | 9.4 | 9.0 |
| 18 | Fluoride mg/l | 0.42 | 0.39 | 0.46 | 0.38 | 0.57 | 0.44 | .97 | 1.11 | 0.92 | 1.03 | 0.38 | 0.41 | 0.242 | 0.28 | 0.65 | 0.59 |
| 19 | Nitrite mg/l | | | | | | | <0.05 | <0.05 | <0.05 | <0.05 | 0.019 | 0.023 | 0.013 | 0.014 | 0.021 | 0.026 |

Annexure - III **(Namakkal District)**

CONSOLIDATED REPORT OF THE TREATED TRADE EFFLUENT SAMPLES COLLECTED M/s. SALEM CO OPERATIVE SUGAR MILS LTD (SUGAR DIVISION), MOHANUR, NAMAKKAL TALUK, NAMAKKAL DT

| Sl. No | Parameters | 26.10.2015 | 26.11.2015 | 13.12.2015 | 25.01.2016 | 23.02.2016 | 08.03.2016 | 12.01.2017 | 24.02.2017 | 03.12.017 |
|--------|-----------------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|
| 1 | ph | 7.57 | 8.00 | 8.13 | 8.13 | 8.11 | 7.55 | 7.67 | 7.45 | 6.94 |
| 2 | TSS | 12 | 16 | 16 | 132 | 48 | 76 | 8 | 20 | 20 |
| 3 | TDS | 1040 | 1180 | 1456 | 912 | 664 | 372 | 1812 | 968 | 864 |
| 4 | Chloride | 114 | 144 | 189 | 179 | 116 | 51 | 139 | 144 | 149 |
| 5 | Sulphate | 315 | 479 | 631 | 64 | 109 | 18 | 638 | 196 | 245 |
| 6 | Oil & Grease | <4 | <4 | <4 | 6 | <4 | <4 | <4 | <4 | 4 |
| 7 | BOD | 5 | 7.0 | 3.0 | 55 | 5.0 | 21 | 24 | 7 | 24 |
| 8 | COD | 8 | 49 | 16 | 251 | 57 | 145 | 78 | 39 | 128 |
| 9 | Sulphide | <1 | <1.0 | <1.0 | 4.8 | <1.0 | 2.4 | <1 | <1 | 0 |
| 10 | % Sodium | 21 | 8 | 28 | 31 | 31 | 43 | 18 | 26 | 0 |
| 11 | Total Volatile Solids | 16 | 16 | 16 | 80 | 40 | 68 | 92 | 80 | 0 |

Annexure - IV

Local body report about the UGDS and STP status

MAYILADUTHURAI MUNICIPALITY

ENGINEERING SECTION

DETAILED REPORT FOR UNDER GROUND DRAINAGE

Short term action Plan

Sewage treatment Plant at Arupathi functioning since 2013. Now the 50% of facultative pond is deposited by the sludge. The volume of sewerage reduced due to sludge deposition. Now municipality have the plan to remove the deposited sludge by engaging desludging machineries. It will be complete by the next six months. After completion of this activities, the generated sewerage will be collected more and treated effectively.

For the above work, the estimate cost is about 7.00 lakhs we will be accepting fund and as form government to carryout desludging activities in the existing STP.


Commissioner
Mayiladuthurai Municipality



Annexure - IV

MAYILADUTHURAI MUNICIPALITY

ENGINEERING SECTION

DETAILED REPORT FOR UNDER GROUND DRAINAGE

Long term Action Plan

In the existing sewerage system covers only 87.34 km against the total length of 117.20 km, the remaining uncovered area of 27.571km due to development of extension areas of omitted areas are not covered with UGSS.

The people from above areas are requesting the UGSS facility and municipal council also resolved in its resolution No:45 Dt:2.01.2011 to provide UGSS for the left out areas.

The detailed projected report has been prepared by the TWAD board for entire left out and ASP technology treatment plant (10.83 MLD) at an estimate cost of 31.30 crores in the year 2013-14.

The same DPR has been submitted to the government to provide administrations sanction and fund sanction under HUDMP 2013-2014.

ULB has excepting fund sanction and administrative sanction from government to implement the project in left out area and ASP method of treatment plant.


Commissioner
Mayiladuthurai Municipality



ANNEXURE 11
Annexure - IV

MAYILADUTHURAI MUNICIPALITY
PUBLIC HEALTH SECTION

ACTION PLAN FOR MUNICIPAL SOLID WASTE MANAGEMENT

SHORT TERM ACTION PLAN:

Mayiladuthurai Municipality Comprises of 36 Municipal wards with an extent of 11.27 sq.km . It consists of 21,867 House Hold and 4390 Commercial Establishments with an average Daily Generation of 30 MT. 95 % Door to Door Collection is practiced in the Wards and 60 % Source segregating is being practiced and the Bio-degradable waste (Non-Biodegradable) is collected in Daily Basis only on every Wednesdays Respectively. Now, Increase in source segregating % to be achieved is proposed by deploying Battery operated Vehicles (BOV-18 Nos) & Light Commercial Vehicles tipper model type (LCV- 6 Nos) will be put into function.

By the end of 31st March 2019


Commissioner
Mayiladuthurai Municipality

Com
29/3/19

Annexure - IV

MAYILADUTHURAI MUNICIPALITY PUBLIC HEALTH SECTION

ACTION PLAN FOR MUNICIPAL SOLID WASTE MANAGEMENT

LONG TERM ACTION PLAN:

The Segregated Bio-degradable Municipal waste has to be composted in the proposed 3 Micro Compost Centres (MCC) to be set up in the Following Places viz. (1) Thimmanaicken Padithurai (2) Vandipettai and (3) Shree Nagar colony, Thiruvapur Road, with a Capacity of not exceeding 5 MT each. The end product is Bio-Compost is proposed for sale to the Farmers at free of cost.

Further, 5 park onsite Compost Centres are (OCCS) Proposed to Compost the Biodegradable waste collected from the adjacent developed park site areas including from Commercial fruit and vegetable markets. These are setup with a Capacity of not exceeding 1 MT each at the following places viz. (1) Varadhachariyar Park (2) Kumaran Park (3) Hajiyar Park (4) Besant Nagar (5) Subramaniapuram park

In addition to this 16 Bulk Waste Generators (ie Daily waste Generators exceeding 100 Kgs) have been identified such as Hotels, Kalyana Mandapams, Schools etc. This accounts for a Daily Generation of 2.0 MT. They have to get their Daily waste generated to be processed at their Respective premises. So far, 5 BWGS have Constructed their own structures in their own premises. 7 their own waste at written consent to process their own waste at a common specified place at muttam village.

With Regard, to Saleable Plastics (Non-Biodegradable) 10.5 MT have been so far collected and kept to Plastic Collection Centres and are readily available to be sent to Ultratech, Ariyalur to be used, as fuel in Cement Processing Units.

Both, the MCCS of OCCS(Onsite Compost Center) will be fully Functional by the end of 30th June 2019 or at the Earliest.


Commissioner

Mayiladuthurai Municipality

Com
09/10/18

Annexure: V**Industry Details (Dyeing & Bleaching)****Annexure - V**

| SL. No. | Name of the Industry | Type | Category | Consent status | Total water consumption (KLD) | Trade effluent Qty (KLD) | ETP status with capacity | Treated trade effluent disposal status |
|---------|---|--|----------|----------------|-------------------------------|--------------------------|--------------------------|--|
| 1. | M/s. Shiny Processing Mills Private Limited 213 -1 ,2, 4 ,6 ,7 ,8, 11 , 210/ 4 ,5 Vettukkattuvalasu Erode 638 011 | 1040- Textile Processing (Dyeing) | RL | Consent issued | 50 | 500 | Zlds provided | Recycling to process |
| 2. | M/s. SCM Textile Processing Mills 29 -C Marapalam Road K A S Nagar Karungal Palayam Erode 03 | 1040- Textile Processing (Dyeing) | RL | Consent issued | 173 | 1730.96 | Zlds provided | Recycling to process |
| 3. | M/s. India Dyeing Mills P Ltd S.P Agraharam Bhavani Main Road Erode 5 | 1040- Textile Processing (Dyeing) | RL | Consent issued | 400 | 4000 | Zlds provided | Recycling to process |
| 4. | M/s. Pioneer Processing India - A Division of Jansons Industries Ltd Bhavani Main Road Ramanathapuram pudur Post Erode 638005 | 1040- Textile Processing (Dyeing) | RL | Consent issued | 140 | 1400 | Zlds provided | Recycling to process |
| 5. | M/s. S.P.Textile Processors Pvt Ltd Suriyampalayam Village and Kumilamparappu VillagePerumalmai Road NearAavinMilkDairyChithode Erode 638102 | 1040- Textile Processing (Dyeing) | RL | Consent issued | 60 | 605 | Zlds provided | Recycling to process |

Annexure - V

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|-----|---|---|----|-------------------|----|-------|-----------------------|-------------------------|
| 6. | M/s. RAJALAKSHMI TEXTILE PROCESSORS PVT LTD Bhavani Main Road R N Pudur Post Erode 638 005 | 1040- Textile Processing (Dyeing) | RL | Consent issued | 60 | 600 | Zlds provided | Recycling to process |
| 7. | M/s. Narmatha Textiles Ltd Bhavani Main Road Ramanathapuram Pudur Post, Erode | 1040- Textile Processing (Dyeing) | RL | Consent issued | 50 | 500 | Unit not in operation | |
| 8. | M/s. City Mills Private Limited Erode - Karur Road Bharathi Nagar Chinniampalayam Post Erode | 1040- Textile Processing (Bleaching) | RM | Consent issued | 12 | 120 | Unit not in operation | |
| 9. | M/s. Adhavan Processor P Ltd S.F.No.78 Suriyampalayam VillageChithode Erode | 1040- Textile Processing (Dyeing) | RM | Consent issued | 3 | 31.5 | Unit not in operation | |
| 10. | M/s. The TN Co-Op Textile Processing Mill Ltd 428 Bhavani Main Road,Veerappanchatram Erode 638 004 | 1040- Textile Processing (Dyeing) | RM | Consent issued | 50 | 500 | Zlds provided | Recycling to process |
| 11. | M/s. Sri Anandhalakshmi Bleaching Company Nattuvankadu,M.O.Thaneerpand alpalayam, S.P.Agraharam Erode-5 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100.5 | Zlds provided | Recycling to process |
| 12. | M/s. Lalitha And Associates No-14 Msam Habibullah Street Sarkar Periya Agraharam Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 9 | 97.7 | Zlds provided | Recycling to process |

Annexure - V

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|-----|---|---|----|-------------------|---|----|------------------|-------------------------|
| 13. | M/s. Sree Selvakumar Bleaching Factory Bhavani Main Road Thaneerpanthalthottam B.P.Agraharam, Erode-5 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 14. | M/s. Shivani Bleachers Muniappagounder Thottam Sathy Road B P Agraham Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 15. | M/s. Revathi Bleaching Works Muniappa Gounder Thottam Sathy Road B P Agraharam Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 16. | M/s. Sri Sastha Bleaching Factory 126 Bhavani Main Road B P Agraharam Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 17. | M/s. Sri Sivam Bleaching Works Bhavani Main Road 3 -1C, Nathakkatu Thottam B P Agraharam, Erode 638005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 18. | M/s. Shri Ganapathy Bleachers S F No 3- 1, Nathakadu Thottam B .P. Agraharam Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 19. | M/s. SRI SUNRICH BLEACHERS 77,THANEERPANTHAL THOTTAM BHAVANI MAIN ROAD B.P.AGRAHARAM, RODE-5 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |

Annexure - V

| | | | | | | | | |
|-----|---|---|----|-------------------|----|--------|------------------|-------------------------|
| 20. | M/s. Iswarya Bleachers 27-Thaneerpanthal Thottam, B.P.Agraharam, Erode-5 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 21. | M/s. Sri AnandhaProcessingRohiniBleac hingwork 27 Bhavani Main Road, B.P. Agraharam,Erode - 05. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 19 | 194.95 | Zlds provided | Recycling to process |
| 22. | M/s. The Uranus Bleachers 10-2 Pitchankadu CD Thottam Backside B P Agraharam Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 16 | 160.2 | Zlds provided | Recycling to process |
| 23. | M/s. Raja Bleaching BP Agraharam Village Rasugounder Thottam 203 Bhavani MainRoad Kamaraj Nagar BP Agraharam Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 14 | 148 | Zlds provided | Recycling to process |
| 24. | M/s. Shri Vishnupriya Bleachers Paachayee Thottam,Near LTCS, B.P.Agraharam Erode-5 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 25. | M/s. Kannan Bleaching Factory Kovil Kattu Thottam, Alameen Nagar, Villarasampatti, Erode - 638 107 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 26. | M/s. Sri Suryodhayaa Processing Pvt Ltd Unitl 111-2 Vishnu Thottam ELLAPALAYAM PERIYASEMUR POST ERODE DISTRICT 638 004 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 47 | 475 | Zlds provided | Recycling to process |

Annexure - V

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|-----|---|---|----|-------------------|----|--------|------------------|-------------------------|
| 27. | M/s. SCM TEXTILE PROCESSING-BLEACHINGDIV 29, Marapalam Road, Karungalpalayam Erode-638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 30 | 300.96 | Zlds provided | Recycling to process |
| 28. | M/s. Kavitha Bleaching Factory 140 Kiluvankadu Veerappampalayam thindal post Erode Taluk 638 012 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 24 | 240.2 | Zlds provided | Recycling to process |
| 29. | M/s. Vignesh Bleaching Factory 1299-3 Baladhandauthapani 2nd street Vendipalayam Erode 638 002 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 20 | 200.2 | Zlds provided | Recycling to process |
| 30. | M/s. Eswari Bleaching 57 VMP Thottam Vairapalayam Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 31. | M/s. Vignesh Textile Mills 1299-1 Baladhandauthapani 2nd street Vendipalayam Erode 638 002 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 32. | M/s. Southern Sarees RS No187-4B 5 pt 6 pt 8-Apt 188-6pt7 75 Nasiyanur Road Vettukattuvalasu, Erode 638 011 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 18 | 187.74 | Zlds provided | Recycling to process |
| 33. | M/s. Sri Jai Mohan Textile Mills Neettapparai Thottam Balathandayutham Street II Vendipalayam Erode 638 002 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |

Annexure - V

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|-----|--|---|----|-------------------|----|-------|------------------|-------------------------|
| 34. | M/s. Sri Manavalan Printing and Processing Mills 14-1H, Natrayan Kovil Street, Narayanavalasu Road, Vettukattuvalasu, Erode - 11. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120 | Zlds provided | Recycling to process |
| 35. | M/s. Sri Ananda Murugan Bleaching 41 Mariamman Koil Street, Palaniyayee Thottam, Vairapalayam Erode-638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100.5 | Zlds provided | Recycling to process |
| 36. | M/s. Vasu Bleaching and Washing Works 1267-1A1 Loganathapuram Tharmalingam Thottam Kollampalayam Kasipalayam Erode 638 002 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 37. | M/s. Sumathi Bleachers an Thirumalai Printers, Edayan Thottam, Vairapalayam, Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 9 | 90.2 | Zlds provided | Recycling to process |
| 38. | M/s. Venkateswara Textile Bleachers, 43 Ramamoorthy Nagar,, Vaaikaal Road,, Krishnampalayam, Erode- 638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 7 | 75 | Zlds provided | Recycling to process |
| 39. | M/s. Senthur Bleaching Factory, Valayakaran Thottam, Vendipalayam, Erode | 1040- Textile Processing (Bleaching) | RS | Consent issued | 7 | 75 | Zlds provided | Recycling to process |

Annexure - V

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|-----|---|---|----|-------------------|---|------|------------------|-------------------------|
| 40. | M/s.Indhu Bleaching Company,99, Water Office Road,,Vairapalayam,,Erode-638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 61 | Zlds provided | Recycling to process |
| 41. | M/s.Deepa Mills,33 -1B Thasildar Thottam,Vairapalayam,Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 42. | M/s.Sree Saravana Bleachers,R.S.No. 243/3B, Kottaikadu,,Opp. CNC, Periyasemur Village,Erode – 638004 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 43. | M/s.Sri Kathirvel Bleaching Company,99, Water Office Road,,Vairapalayam,,Erode-638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 59 | Zlds provided | Recycling to process |
| 44. | M/s.Selliamman Bleaching,Konakadu Thottam,Subramaniam Nagar,Thindal Po Erode 638 012 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 45. | M/s.S.K.R. Textile Processors,237 239, A.P.T Road,,Park Road,,Erode-638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 46. | M/s.Sri Krishna Bleachers,1287 1A1Apt Kasipalayam Village,Neettuparaithottam,Vend ipalayam Erode 638 002 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 47. | M/s.Novelty Wash,D.No 4-5 Marapalam 4th Cross,KAS Nagar Karungalpalayam,Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 4 | 40.1 | Zlds provided | Recycling to process |

Annexure - V

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|-----|--|-------------------------------------|----|----------------|---|----|---------------|----------------------|
| 48. | M/s.Saiva Mariamman Bleaching,109 Mottaiyappa Gounder Thottam,Vettukattu Valasu,Erode 638 011 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 3 | 35 | Zlds provided | Recycling to process |
| 49. | M/s.Maharaj Textile Printers.,Konakadu thottam,,Veerappampalayam Pirivu Nasiyanur Road,,Thindal PO Erode 638 012 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 27 | Zlds provided | Recycling to process |
| 50. | M/s.Sakthivel Bleaching Company-Amman Dyeing,D.No. 53, KCP thottam,, Kumalankuttai,,Erode 638 011 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 51. | M/s.Sri Sakthi Kumaran Bleachers,78 Pannadi Thottam Lakshmi Nagar, Veerappanchatram Post,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 52. | M/s.Venkateswara Bleachers,Manickavasagar Colony,Moolagoundenpalayam, Erode 638 002 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 53. | M/s.Maureyaa Fabrics,212/2A Vettukattuvalasu,Southern Printing Opp,Nasiyanur Main Road Erode 638 011 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 54. | M/s.KBM Printing and Bleaching,142 Veerappampalayam,Vettukattuv alasu Road Thindal Post, Erode 638 012 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |

Annexure - V

| | | | | | | | | |
|-----|---|---|----|-------------------|---|----|------------------|-------------------------|
| 55. | M/s.Angalamman Bleaching and Printers,Kinathankadu thottam,Veerappampalayam,Su bramaniya Nagar Thindal Post Erode 11 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 19 | Zlds provided | Recycling to process |
| 56. | M/s.Vinoth Bleaching Factory,RS No 61-10 part Nethaji street,Veerappanchatram,Vairap alayam Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 18 | Zlds provided | Recycling to process |
| 57. | M/s.Sivaprakasam Sarees,31, Brinda Street,Erode TK,Erode - 638 001 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 18 | Zlds provided | Recycling to process |
| 58. | M/s.Sri Senthil Andavar Bleaching Works,53-1 Selvam Nagar,Muniappan Kovil Kadu Narayanavalasu Road,Kumalankuttai Erode 638011 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 59. | M/s.Sri Velmani Textiles,Vandikkaran Thottam,,Kollampalayam,,Erode -638 002. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 60. | M/s.Ragava Screen Printers,86, Thirumal Nagar,,Narayanavalasu, Nasiyanur Road,,Erode-11. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 61. | M/s.Nithya Sarees,Vettukattuvalasu,Opp Postal Nagar,Erode 638 107 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |

Annexure - V

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|-----|--|-------------------------------------|----|----------------|----|-------|---------------|----------------------|
| 62. | M/s.Sri Sakthi Bleaching Works,1273-3p Ward No10 Kasipalayam Village,Manakadu Thottam Vendipalayam,Balathandayutha pani st Erode 638 002 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 10.5 | Zlds provided | Recycling to process |
| 63. | M/s.Sree Balaji Bleaching Works,18 Thirumal Nagar,Narayanavalasu,Erode 638 011 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 64. | M/s.Kanni Processors,Kamala Nagar,,Kavitha theatre Road, Karungalpalayam,Erode 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 65. | M/s.Rukmani Wax Printers,45-A, Bhavani Main Road,,Veerappan Chatram,,Erode-638 004. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 7.5 | Zlds provided | Recycling to process |
| 66. | M/s.A V M Export Printers,244 Odakattu Thottam,Subramaniam Nagar,Erode | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 2.5 | Zlds provided | Recycling to process |
| 67. | M/s.Dharani Colour Creation Pvt ltd,213- 4 6 7 11,Vettukattuvalasu,Erode Taluk Erode District | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 2.225 | Zlds provided | Recycling to process |
| 68. | M/s.New Star Bleachers,Idayankadu Sengottaiyan Nagar,Vairapalayam,Erode 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 32 | 320 | Zlds provided | Recycling to process |

Annexure - V

| | | | | | | | | |
|-----|--|-------------------------------------|----|----------------|----|-------|---------------|----------------------|
| 69. | M/s.Dhanalakshme Printers,138, Arasilango Street,,Karungalpalayam,,Erode-638 003. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 70. | M/s.Vijayabala Processing,229-1 2 Subramanian Nagar,Nasiyanoor Road Thindal Post,Erode 638 012 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 12 | 120 | Zlds provided | Recycling to process |
| 71. | M/s.Sree Kutti Mills,16 Vaikkal Road Ramamurthy Nagar,Krishnampalayam,Erode 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100.1 | Zlds provided | Recycling to process |
| 72. | M/s.SelvaLakshmi Bleaching Works,100, Water Office Road,,Vairapalayam,,Erode - 638 003. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 73. | M/s.Sri Sangeetha Bleaching Company,Karattu Thottam,Vairapalayam,Erode 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 74. | M/s.Sri Thangam Bleaching,1267-1A Erode Village,Loganathapuram Kollampalayam,Railway Colony Post Erode 638 002 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 75. | M/s.Sri Veramathi Amman Processing Mills,1273-2 part Manakadu Thottam,Kasipalayam Village Vendipalayam,Railway Colony Post Erode 638 002 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |

Annexure - V

| | | | | | | | | |
|-----|--|---|----|-------------------|----|-----|------------------|-------------------------|
| 76. | M/s.Saravan Tex Private Limited,R.S.F. No. 62/3 and 4,Gangapuram Village, Chithode Post,,Erode Taluk and District | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 77. | M/s.Sunmax Textile Processors,168 Vaikkal Road Near Nanthi School,Krishnampalayam Karungalpalayam Post,Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 78. | M/s.Ramsons Processing Mills India Pvt Ltd,110 Vivekanandar Salai,Vettukattuvalasu,Collector ate Post Erode 638 011 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 79. | M/s.Sri Vinayaga Textile Printers,Near Maureyaa Fabrics,Vettukattuvalasu,Erode 638 011 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 7 | 70 | Zlds provided | Recycling to process |
| 80. | M/s.Shree Velavan Mills,155-4 Vivekananda Salai,Narayanavalasu. Nasianoor Road,,Erode-638 011. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 61 | Zlds provided | Recycling to process |
| 81. | M/s.Annapoorani Bleaching Company,24 Thasildar Thottam,,Vairapalayam,,Erode 638 004. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 82. | M/s.Arputha Bleaching,214 3C Veerappanchatram Village,Nasiyanur Road Vettukattuvalasu,Erode 638 011 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |

Annexure - V

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|-----|---|-------------------------------------|----|----------------|---|-------|---------------|----------------------|
| 83. | M/s.Sree Mahalakshmi Bleaching,73 Chinnakkattu Thottam,Vairapalayam,Erode 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 84. | M/s.Balu Bleachers,59-3 5 6 Veerappanchatram Village,No 58 Nethaji Road Vairapalayam,Erode 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50.12 | Zlds provided | Recycling to process |
| 85. | M/s.Sri Bagavathi Amman Bleachers,29, Palaniyayee thottam,,Vairapalayam,,Erode-638 003. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 86. | M/s.Sri Palani Murugan Bleachers,84, Pannadi Thottam,,Lakshmi Nagar,,Bhavani Main Road, Erode-638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 87. | M/s.Sri Sudharsan Bleaching,81, Pannadi Thottam,,Lakshmi Nagar, Bhavani Road,,Erode-638 04. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 88. | M/s.Sri Murugan Bleaching Works,82, Pannadi Thottam,,Lakshmi Nagar,,Bhavani Main Road, Erode-638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 89. | M/s.Sri Amman Bleaching Factory,109, Water Works Road,,Vairapalayam,,Erode-638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 90. | M/s.Mekala Bleaching Works,120, Nethaji Street,,Vairapalayam,,Erode-638 003. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |

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|-----|--|---|----|-------------------|---|------|------------------|-------------------------|
| 91. | M/s.Jagajothi Bleaching Company, 119 -72 Nethaji Street, Vairapalayam, Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 92. | M/s.Samy Bleaching, 119 Thirumal Nagar, Narayana Valasu, Erode 638 011 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 93. | M/s.Sri Thirumalai Bleaching Works, Thundukattu Thottam, Veerappampalayam Thindal post, Erode - 9 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 94. | M/s.A.M.K Textile, R.S.No. 1317/9 A1, A4, Aaraa Gounder Thottam, Vendipalayam, Erode - 638002 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 95. | M/s.Priyatharshini Bleaching, 81, Pannadi Thottam,, Lakshmi Nagar,, Bhavani Main Road, Erode-638 004 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 96. | M/s.S.S.M. Scouring Works, 62, Nethaji Street,, Vairapalayam,, Erode-638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 4 | 42.1 | Zlds provided | Recycling to process |
| 97. | M/s.Velmurugan Textiles Bleaching, 1287-1A1 Apt 1B1B Kasipalayam Village, Neettaparaithottam Vendipalayam, Erode 638 002 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 35 | Zlds provided | Recycling to process |
| 98. | M/s.Shri Kiruba Sarees, 79, Nasiyanoor Road, Vettukattuvalu Collectorate Post, Erode | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 35 | Zlds provided | Recycling to process |

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|------|---|---|----|-------------------|---|----|------------------|-------------------------|
| 99. | M/s.Sri Madhurakaliamman Bleaching Company,Formerly Sri Palaniappa Bleaching Compan,VMP Thottam,Vairapalayam,,Erode - 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 100. | M/s.Radhamani Bleaching Works,VMP Thottam,,Vairapalayam,,Erode-638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 101. | M/s.Ashok Bleaching Company,15, Mariamman Koil Street,,Vairapalayam,,Erode-638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 102. | M/s.Sri Mahalakshmi Bleaching Company,14, Mariamman Koil Street,,Vairapalayam,,Erode-638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 103. | M/s.Sankari Bleaching Factory,No 7 ThasildarThottam,Vairapalayam, Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 104. | M/s.Sakthi Bleaching Company,K C P Thottam,Kumalankuttai,Erode 638 011 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 105. | M/s.Andiyappan Bleaching Works,Water Works Road,Vairapalayam,Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |

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| 106. | M/s.Sri Jai Balaji Bleaching Factory,277, Balathandayuthapani Street,,Railway Colony post, Karur Road,,Erode-638 002. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 107. | M/s.The Pratheep Printing Mills,5 Ganapathy Nagar,Vettukattuvalasu,Erode | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 29 | Zlds provided | Recycling to process |
| 108. | M/s.Sri Bagyalakshmi Bleaching,Devarayankadu,,Veer appanchatram Post,,Erode-638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 109. | M/s.Hari Shankar Process,S F No 229 1part 2part 230part,Subramaniyam Nagar,Veerappan Palayam Road Erode 638012 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 110. | M/s.Balaji Mills,64 Krishnampalayam Road,Vairapalayam,Erode – 3 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 111. | M/s.Sri Abirami Process,Karur Bypass Road,Kalayanasundram Street,Molagoundanpalayam Erode 638002 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 112. | M/s.Sri Amman Dyeing Works,37, Marapalam Road,,5th Cross, K.A.S. Nagar,,Karungalpalayam, Erode-638 003. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |

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|------|--|-------------------------------------|----|----------------|----|-----|---------------|----------------------|
| 113. | M/s.Alayam Bleachers and Printers,56 Old Karur Road,Erode 638 002,Erode District | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 114. | M/s.Aravinda Bleachers, Vanankattuvalasu Mettukadai,Erode 638 107,Erode District | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 115. | M/s.Sri Akilandeswari Bleaching and Printers,93-1 Vettukattu Valasu,Nasiyanur Road,Erode 638 011 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 9 | Zlds provided | Recycling to process |
| 116. | M/s.Murugan yarn Bleaching Factory,Vaikal Road,Krishnampalayam,Erode | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 5 | Zlds provided | Recycling to process |
| 117. | M/s.Sri Kannan Bleaching Works,57 Karppagam Lay Out,Erode 638003,- | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 5 | Zlds provided | Recycling to process |
| 118. | M/s.V. N. Deiva Sigamani Prints,37, Selvan Nagar,,Kumalan Kuttai,,Erode. 638 011 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 4.5 | Zlds provided | Recycling to process |
| 119. | M/s.Sri Manikandan Bleaching and Printing,Kala Thottam,,Vinayagar Koil Street, Vettukattuvalasu,Erode-638 011. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 0.2 | Zlds provided | Recycling to process |
| 120. | M/s.Viswak Impex,Oonappar Kadu,Vettukattuvalasu Veerappampalayam,Thindal Post Erode 638 011 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 12 | 120 | Zlds provided | Recycling to process |

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|------|---|---|----|-------------------|----|--------|------------------|-------------------------|
| 121. | M/s.Alaya Bleachers and Printers,1287 1 A Kasipalayam Village,Neettaparai Thottam, Vendiapalayam,Erode 638 002 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 122. | M/s.Shri Murugan Process,RS No146/1 146/2 Part 3 part 131/3B part,Viriyankattu Thottam Mamarathu palayam,Gangapuram Village Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 24 | 240 | Zlds provided | Recycling to process |
| 123. | M/s.Sree Rajalakshmi Processing Mills,Gangapuram Village,Chithode,Erode 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 22 | 220 | Zlds provided | Recycling to process |
| 124. | M/s.SREE DHANALAKSHMI BLEACHING WORKS,KILAKKU THOTTAM GONGAMPALAYAM, CHITHODE POST,ERODE DISTRICT | 1040- Textile Processing (Bleaching) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 125. | M/s.Golden colours,Gangapuram Village,Erode,- | 1040- Textile Processing (Bleaching) | RS | Consent issued | 17 | 175 | Zlds provided | Recycling to process |
| 126. | M/s.Vishnu Vimal Tex Processors,216-2 Mottaiyankadu,Kongampalayam Gangapuram Village,Chithode post Erode 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 15 | 159.65 | Zlds provided | Recycling to process |
| 127. | M/s.Sri Vari Processors,152 -2 3 part 153-1 4 part,Gangapuram Village,Erode Taluk Erode | 1040- Textile Processing (Bleaching) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |

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| 128. | M/s.VK Printers,Gangapuram Village,Erode Panchayat Union,Erode 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |
| 129. | M/s.Prabhu Bleaching Factory,140-1 Gangapuram Village,Annaiyappan Thottam Sakthi Main Road,Mamarathupalayam Erode 638 004 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120.24 | Zlds provided | Recycling to process |
| 130. | M/s.Vishal Bharath Processing Mills,80-5P and 85,Gangapuram Village Chithode,Erode 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120 | Zlds provided | Recycling to process |
| 131. | M/s.Sree Ganapathi Process,S F No 127 4 Panangadu,Chithode PO Erode 638 102,Erode District | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120 | Zlds provided | Recycling to process |
| 132. | M/s.Sri Balaji Bleaching Factory,Maniyakarar Thottam,Gangapuram Village,Erode | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120 | Zlds provided | Recycling to process |
| 133. | M/s.Krishna Processing,189-2 Avudaiyankadu,Kongampalaya m Chithode Post,Erode 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120 | Zlds provided | Recycling to process |
| 134. | M/s.Naveena Printing Mill,Gangapuram Village,Kallangadu,Erode 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 135. | M/s.Star India Bleachers,261-1 Kongampalayam,Gangapuram Village,Erode 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |

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| 136. | M/s.Sree Krishnaa Processors,Ondikaruppanna Koil Thottam,Kongampalayam,Chithode Post Erode 638 102 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 137. | M/s.Arunagiri Bhavan Process,Gangapuram Village,Mettaiyankadu Gangapuram,Gangapuram Post Erode 638 102 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 138. | M/s.SRI BANNARIAMMAN TEXTILE PROCESSORS,80-5 GANGAPURAM VILLAGE,ERODE TALUK,ERODE DISTRICT | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 139. | M/s.Nature Bleachers,133-3 4 5 Naripallam,Gangapuram Village,Chithode Post Erode 638 102 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 140. | M/s.Sree Krishna Bleachers,Gangapuram Village Avudaiyankadu,Kongampalayam,Chithode Post Erode | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 141. | M/s.Astalakshmi Textile Processing Mills,Gangapuram village,Kongampalyam Chithode,Erode 638 102 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 9 | 90.3 | Zlds provided | Recycling to process |
| 142. | M/s.Sri Amman Digital Print,Verayankattu Thottam,Kongampalayam Road Gangapuram Post,Erode 102 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 8 | 80 | Zlds provided | Recycling to process |

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|------|---|---|----|-------------------|---|------|------------------|-------------------------|
| 143. | M/s.SRI JAYABALAJI TEXTILES MILLS UNIT I,206-2A part NATHANKADU,GANGAPURAM POST,CHITHODE ERODE 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 60.2 | Zlds provided | Recycling to process |
| 144. | M/s.SRI JAYABALAJI TEXTILES MILLS UNIT II,206- 2A part NATHANKADU,GANGAPURAM Post,CHITHODE ERODE 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 60.2 | Zlds provided | Recycling to process |
| 145. | M/s.Sri Sarabeswara Process,198 3 4 and 5 part,Gangapuram village,Erode Taluk Erode District 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 146. | M/s.Sri Velavan Textiles Mills,46 -1 Maniyakarar Thottam,Gangapuram Village Chithode Post,Erode 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 147. | M/s.Universal Textile Processing,R S No 201- 5,Gangapuram Village,Chithode Via Erode638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 148. | M/s.Sivasankara Processing,198-4 part 5 part and 7 part,Gangapuram Village,Gangapuram Post Erode 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 4 | 40.1 | Zlds provided | Recycling to process |
| 149. | M/s.Kaviya Bleachers,146-2 3 4 5 9 10 131-3B,Gangapuram village Viriyankattu Thottam,mamarathupalayam Erode 638 004 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |

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| 150. | M/s.Swathi Process,145-5,Ramasamy Gounder Thottam,,Gangapuram Village Mamarathupalayam,,Erode-638 004. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 151. | M/s.Santhosh Bleaching Company,Gangapuram Village,Viriyankattu Thottam,Mamarathupalayam Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 152. | M/s.Deepa Bleaching works,Viriyankattu Thottam,Gangapuram Village Mamarathupalayam,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 153. | M/s.Selva Ganapathy Bleaching Works,Gangapuram Village,Erode Taluk,Erode District | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 22.5 | Zlds provided | Recycling to process |
| 154. | M/s.Arun Process,150- 1 Ondi Karupanna Koil Thottam,Kongampalayam,Erode District | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 155. | M/s.Sri Yogavinayaga Bleaching Works,Neettuparai Thottam,Gandhipuram,Kasipalayam Erode 638 002 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50.1 | Zlds provided | Recycling to process |
| 156. | M/s.Sri Meenakshi Textiles,24-2B Kumilamparappu Village,Rayapalayam Pudur,Erode 638 102 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50.2 | Zlds provided | Recycling to process |

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|------|--|---|----|-------------------|----|------|------------------|-------------------------|
| 157. | M/s.JAYASOORYA BLEACHERS,KUMILANPARAP PU VILLAGE,VAIKKALMEDU, CHITHODE,ERODE 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 158. | M/s.KAMALRAJ PROCESS,36/4A, KUMILAMPARAPPU VILLAGE,SENGUNTHAPURAM , SURIYAMPALAYAM TP,CHITHODE, ERODE DISTRICT | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 159. | M/s.Anbu Murugan Bleaching Factory,Bhavani Bye Pass Road,Kumilamparappu Chithode,Erode 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 160. | M/s.Akshata Laxmi Processing Mills,98/1A Kuliamparrapu Village,Chithode,,Erode 638 102 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 16 | 160 | Zlds provided | Recycling to process |
| 161. | M/s.Thirupathi Bleaching,1560 3A Thuyyam Poondurai Village,Pannakattu Thottam,,Givindanaickam Palayam, Erode 638 048 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 5 | Zlds provided | Recycling to process |
| 162. | M/s.Shalimar Textile Industries,Nanjai Thalavaipalayam Village,Bhavani Main Road B P Agraharam,Erode -638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 4 | 40.4 | Zlds provided | Recycling to process |
| 163. | M/s.Saranya Textile Bleaching,VMP Thottam,,Vairapalayam,,Erode - 638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |

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|------|--|-------------------------------------|----|----------------|----|-------|---------------|----------------------|
| 164. | M/s.Sree Vani Amman Bleachers,55-3 Vaniamman Koil Street,,B.P. Agraharam,,Erode-638 005. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 16 | 160 | Zlds provided | Recycling to process |
| 165. | M/s.Sun shine Millss,KPR Thottam,Pudur Road Nanjai Uthukuli Post,Erode 638 102 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100.1 | Zlds provided | Recycling to process |
| 166. | M/s.Sri Sukra Process,Nasiyanur Village,Near Eswaran Temple,NH 47 Bhavani Main Rd Nasiyanur Erode | 1040-Textile Processing (Bleaching) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 167. | M/s.KSM Mills,Vettukadu Kaikattivalasu,Villarasampatti Post,Erode 638 107 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 30 | 300 | Zlds provided | Recycling to process |
| 168. | M/s.K.Ramasamy Gounder Bleaching,Previously Sunshine Textile Process,No2UradithottamPTaan neerpanthalpalayam,Veerappan chatram Erode-4 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 169. | M/s.Sri Karthikeya Bleaching Company,Manthilikkattu Thottam,P.Thanneerpandhalpal ayam,Periyasemur Village Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 170. | M/s.Varunisha Textiles,328-1 Periyasemur Village,Aundikuravan Thottam SSP Nagar,Villarasampatti Post Erode 638 107 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |

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|------|--|---|----|-------------------|----|--------|------------------|-------------------------|
| 171. | M/s.Ramesh Kumar Screen Printers,Seenankadu Thottam,,Periyasemur ,Veerappanchatrampost,, Erode-4 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |
| 172. | M/s.Sri Kanthan Textile Processors,Chakkilian Thottam, CS Nagar Backside,Veerappanchatram Post,Erode 638 004 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120.24 | Zlds provided | Recycling to process |
| 173. | M/s.Sreelswarya FinePrints-RaajaramBleachers,2-D, PitchanKadu,,T.P. Palayam,,Veerappanchatram Post, Erode-638 004. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120.2 | Zlds provided | Recycling to process |
| 174. | M/s.Kiruthika Bleachers,S.S.P. Nagar,,Rasampalayam, Villarasampatti Post,Erode-638 107. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120.1 | Zlds provided | Recycling to process |
| 175. | M/s.Sri Andavar Processing,17-6A 6C Periasemur Village,Sappani Kovil Thottam,Thanneerpandalpalayam Erode 638 004 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120 | Zlds provided | Recycling to process |
| 176. | M/s.SRV Bleachers,Periasemur Village Chettikattu Thottam,Mamarathupalayam Sathy Main Road,Erode - 638 004 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120 | Zlds provided | Recycling to process |
| 177. | M/s.SPM Bleachers,404-1 Muniappampalayam,Periyasemur Village Villarasampatty Post,Erode 638 107 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |

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|------|--|-------------------------------------|----|----------------|----|-----|---------------|----------------------|
| 178. | M/s.Lakshmi Mills,375 Seenankadu,,Periyasemur,,Erode-638 004. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 179. | M/s.Sri Sun Bleaching,Thottakadu,Sengunthar Nagar Road,,Chinnasemur ,Periyasemur Post,,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 180. | M/s.Sakthi Bleaching,Savadikattu Thottam,Sengunthar Nagar Road Chinnasemur,Periyasemur Post Erode 638 005 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 181. | M/s.Kongu Bleaching,156 -1 Savadi Kattu Thottam,,Sengunthar Nagar Road,Chinnasemur, Periyasemur PO,Erode-4 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 182. | M/s.Om Sakthi Vinayaga Bleaching,Chavadikattu Thottam,Periyasemur Post,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 183. | M/s.Amri Bleachers Old Name Sekar Bleachers,C. S. Subramaniyam Nagar,,Sathy Main Road,,Erode-638 05. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 184. | M/s.Sri Sai Process,Pallakattu Thottam,Near Sathy Main Road,Mamarathupalayam Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |

Annexure - V

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|------|---|-------------------------------------|----|----------------|---|------|---------------|----------------------|
| 185. | M/s.AishveryaTextile DyersSrriAishveryaColor,1 A North Street Ayyankurai Thottam,Lakshmi Theatre Backside,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 9 | 93 | Zlds provided | Recycling to process |
| 186. | M/s.Durai Process,14, Pitchankadu Tholuvan Thottam,,Rajiv Nagar Veerappanchatram Post,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 9 | 90 | Zlds provided | Recycling to process |
| 187. | M/s.Vijayalakshmi Processing,Formerly Sree Ayyappan Tex,Vakkanakkattu Thottam CS Nagar Backside,Veerappanchatram Post Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 8 | 80 | Zlds provided | Recycling to process |
| 188. | M/s.Padma Processors,Nachakadu,,Thanne rpanthal Palayam,,Erode-638 004. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 7 | 75 | Zlds provided | Recycling to process |
| 189. | M/s.Sanjai Process,Baarakadu,Thanneerpa ndalpalayam,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 7 | 70 | Zlds provided | Recycling to process |
| 190. | M/s.Sri Thirumala Textile Proc essing,Seenankadu,Periasemur Village,Erode 4 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 7 | 70 | Zlds provided | Recycling to process |
| 191. | M/s.Naveen Process,Pallakattu Thottam Near Sathy Main Road,Mamarathupalayam,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 6 | 67.2 | Zlds provided | Recycling to process |

Annexure - V

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|------|---|-------------------------------------|----|----------------|---|----|---------------|----------------------|
| 192. | M/s.SANGARAA SAKTHI PROCESSING,Panchayee Thottam,Near LTCS B P Agraharam,Erode 638 005 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 193. | M/s.Sri Alagunachiamman Bleaching works,191-1 Periasemur Village, Chinnathottam Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 194. | M/s.Subramanian Textile and Processing Mills,191-3 Periasemur Village,Chinna thottam,,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 195. | M/s.Ohm Sakthi Process,S F No 402 7 Periasemur Village,SSP Nagar,Erode Taluk 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 196. | M/s.Narmadaa Bleaching Works,192-2 Periyasemur Village,PKD Nagar K.Kulam,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 197. | M/s.Sri Vela Washing, 13 Pachayee Thottam,Near LTCS B P Agraharam,Erode 638 005 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 198. | M/s.Srri Senthur Process, 13 Pachayee Thottam,Near LTCS B P Agraharam,Erode 638 005 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 199. | M/s.Jai Murugan Bleachers,52 Periathottam,Periasemur Village,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |

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| 200. | M/s.Sunrise Bleaching Works,278 - D1 Bankers Thottam,,Veerappanchattram post,Erode-638 004. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 201. | M/s.Subramaniam Bleaching,Pitchankadu,,Periasemur Village, T.P. Palayam,,Erode - 638 004. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 202. | M/s.Mahesh Process,Pallakattu Thottam,Near Sathy Main Road,Mamarathupalayam Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 203. | M/s.Sri Madhan Bleachers,Puliankattu Thottam,Mamarathupalayam,Sathy Main Road Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 204. | M/s.Sri Thiruppathi Processing Mills,Thottiyathaiyan Koil Thottam,EPB Nagar Veerappanchattram Post,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 4 | 45 | Zlds provided | Recycling to process |
| 205. | M/s.Sri Hari Bleachers,Pitchankadu Thaneerpandalpalayam,Periasemur,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 4 | 40 | Zlds provided | Recycling to process |
| 206. | M/s.Sakthi Bleachers,335-2B Poonthottam,Periasemur Village,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 4 | 40 | Zlds provided | Recycling to process |
| 207. | M/s.Thirumalai Printing Mills,327,EPB Nagar,,Manickampalayam,,Erode-4 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 3 | 30.24 | Zlds provided | Recycling to process |

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|------|---|-------------------------------------|----|----------------|---|----|---------------|----------------------|
| 208. | M/s.Siddeswaran Bleaching Works,45-Thaneerpandal Thottam,,Bhavani Main Road, B.P.Agraharam,,Erode-5 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 209. | M/s.Sri Diamond Bleaching,36 ,Cauvery Nagar,SKC Thottam,,Soolai, Erode - 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 210. | M/s.Sri Valampuri Karpaga Vinayagar Mills,404-1 Periasemur B Village,ThulukankattuthottamM uthumanickaNagar,Rasampalay am Erode 638 007 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 211. | M/s.Sri Sakthi Mills,Pitchankadu,,C.D. Thottam Backside,,B.P. Agraharam, Erode - 5. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 212. | M/s.Sri Renugambal Bleaching Company,Periasemur Village,Periya Thottam Periyasemur Post,Erode District 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 213. | M/s.Sri Balaji Printers,Thottiyathaiyan Koil thottam,EPB Nagar Veerappanchatram Post,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 214. | M/s.Jaya Maruthi Mills,120 Nalli Thottam,Nasiyanur Road,Erode 638 011 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |

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|------|---|-------------------------------------|----|----------------|---|----|---------------|----------------------|
| 215. | M/s.Sri Bharani Bleachers,54-1,Ponnusamy Goundar Thottam,Thaneerpanthalpalayam, Periasemur,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 216. | M/s.Aruna Textile Processing Mills,385,Arasankadu,,Subramaniagoundenvalasu,Asokapuram,, Erode-4 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 217. | M/s.Sri Raja Bleaching Works,Periasemur Village Periya Thottam,Periya Thottam Periyasemur Post,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 218. | M/s.Sakthi Vinayaka Bleaching,374-1 Seenankadu,Periasemur Post,Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 219. | M/s.Sri Sabari Bleaching,149-B Nathakadu Thottam,Periasemur Post,Erode District 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 220. | M/s.K P K Bleaching,404-1 Periasemur Village,Muthumanickam Nagar Thulukankadu,Rasampalayam Periasemur PoErode | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 221. | M/s.Indu Colours,No-27, Bharathi Nagar,, Chinnathottam,Chinnasemur,, Erode 638 004 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 222. | M/s.Sankar Balaji Textile Processors,47 A,Mudali Thottam, I st street,, Periyasemur, Soolai,Erode-004. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |

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|------|---|-------------------------------------|----|----------------|----|------|---------------|----------------------|
| 223. | M/s.Thangam Textile Printers,Periya Thottam,,Christiyans Street,,PeriyasemurPO,Erode-4 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 224. | M/s.Saai Bleacher,23 SP Agraharam Village,M Thanneerpandalpalayam road,BP Agraharam Erode 005 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 225. | M/s.Kowsalya Bleachers,32/2, Sarcar Perya Agraharam village,Anandankadu, Opp. to IDM,R.N.Pudur, Erode-638 005. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 13 | 135 | Zlds provided | Recycling to process |
| 226. | M/s.Thulasiammal Tex,Nallasamy Gounder Thottam,,27 Bhavani Main Road,,B.P. Agraharam, Erode-638 005. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 12 | 120 | Zlds provided | Recycling to process |
| 227. | M/s.Sabari Process,No-18 S P Agraharam Village,M Thanneerpandalpalayam Road,B P Agraharam T P Erode 638 005 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 228. | M/s.Sri Shanmuga Bleachers,32-2, Sarcar Periya Agraham Village,Anandankadu, Opp. to IDM,R.N.Pudur, Erode-638 005. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 9 | 90 | Zlds provided | Recycling to process |
| 229. | M/s.Sri Vinayaga Bleachers,Old name Vetri Bleachers,93,BHAVANI MAIN ROAD,,Sunnambu Odai, B.P.AGRAHARAM,ERODE-5 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 7 | 75.1 | Zlds provided | Recycling to process |

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|------|--|---|----|-------------------|---|----|------------------|-------------------------|
| 230. | M/s.JananiProcessMills - KrishnarajBleaching,Anandan Kadu,,Thannerpanthal Palayam,,R.N. Pudur Post, Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 7 | 75 | Zlds provided | Recycling to process |
| 231. | M/s.Rohini Bleaching Works,327-1, Sunnambu Odai,,B.P. Agraharam,,Erode- 638 005. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 232. | M/s.HAARISH AND COMPANY,RS.NO-33- 1,2,SARCARPERIYA AGRAHARAM,2- MSAM Abi Bullah Tannery St ERODE TK,ERODE 638005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 233. | M/s.Sumathi Textile Processing Mills,25-Vaikkal Road,Kamaraj Nagar,,Bhavani Main Road,B.P.Agraharam,,Erode-5 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 234. | M/s.S.P.M. PROCESSING MILLS,62/1-A Palayapalayam Road,,Surampatti Valasu,,Erode-638 009. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 7 | 78 | Zlds provided | Recycling to process |
| 235. | M/s.Sree Amman Textile Processing,63 -1 Surampatti Village,No 341 Pallakattu Thottam,Surampattivalasu Anaikattu Road Erode 9 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 236. | M/s.Sri Bhuvana Bleaching Factory,235 Kaliappa Gounder Thottam,Perundurai Road,Kumalankuttai Erode 638011 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |

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| 237. | M/s.PNP Textiles,45 -1 Sangu Nagar,,Surampatti, Erode Taluk,Erode 638 009 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 7.5 | Zlds provided | Recycling to process |
| 238. | M/s.Sri Saravana Bleaching,Suriyampalayam Village,Bhavani Main Road,RN Pudur Post Erode5 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 40 | 400 | Zlds provided | Recycling to process |
| 239. | M/s.A N G TEXTILE PROCESS;250/3,6, SURIYAMPALAYAM VILLAGE,JAVULI NAGAR, R N PUDUR POST,ERODE 638005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 32 | 325 | Zlds provided | Recycling to process |
| 240. | M/s.Amman Printers,Suriyampalayam Village,Bhavani main Road,R.N.Pudur Post,Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 30 | 300 | Zlds provided | Recycling to process |
| 241. | M/s.VAIBHAV PROCESSINGMILLPLTDBLEACHING,18-1 BHAVANI MAIN ROAD MAYAPURAM,R N PUDUR POST,ERODE 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 27 | 270 | Zlds provided | Recycling to process |
| 242. | M/s.The Yahoood Bleachers,Appachi Ayya Thottam,Bhavani Main Road Vasavi College Post,Erode-638 316. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 20 | 200.1 | Zlds provided | Recycling to process |
| 243. | M/s.Aiswaryaa Bleachers,KG Pudur Suriyampalayam Village,RN Pudur Post,Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 18 | 180 | Zlds provided | Recycling to process |

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|------|---|-------------------------------------|----|----------------|----|-------|---------------|----------------------|
| 244. | M/s.Sri Rajaganapathy Bleaching,Suriyampalayam Village,Bhavani Main Road,RN Pudur Post Erode 5 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |
| 245. | M/s.Sri Kamatchiamman Bleachers,Suriyampalayam Village,Maravapalayam RN Pudur Post,Erode 638 005 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |
| 246. | M/s.SRI PON AZHAGU NACHIAMMAN BLEACHING,Bhavani Main Road,RN Pudur Post,Erode 638 005 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |
| 247. | M/s.K.S.Muhunthan Bleaching,Kotthukaran Pudur,R N Pudur Erode 638 005,ASTALAKSHMI PRINTING MILLS | 1040-Textile Processing (Bleaching) | RS | Consent issued | 12 | 126.2 | Zlds provided | Recycling to process |
| 248. | M/s.Deepak Textile Processors,Perumalmalai Road,,Rayapalayam pudur,,Chithode post. Erode 638 102 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 11 | 111.5 | Zlds provided | Recycling to process |
| 249. | M/s.Srri Sakthy Textiles Mills - Formerly,Srri Jayasakthy Textile Mills,Muralikadu Thottam,Tamilnadu ITI Opp Chithode Erode 5 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 105 | Zlds provided | Recycling to process |
| 250. | M/s.Sri Ragavanandaa Bleachers,M.Thanneerpanthalpalayam,RN Pudur Post,Erode -5 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |

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| 251. | M/s.Sri Annamar Bleaching,80-7SuriyampalayamVillageAnapali thottam,Perumalmai Road ,Rayapalayam,Chithode Erode 638 102 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 7 | 75 | Zlds provided | Recycling to process |
| 252. | M/s.Annamar Process,184-2, Bhavani Main Road,,R.N. Pudur post,Erode - 638 005. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 253. | M/s.Shivalik Bleaching,43-3 A1 Appachi Ayya Thottam,Bhavani Main Road Vasavi College Post,Erode 638 316 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 254. | M/s.N Point Colours,135 136 Bhavani Main Road,RN Pudur Post,Erode 638 005 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 255. | M/s.Thiruseeralai Bleachers,5B, Bhavani Main Road,,Kesavarayan Thottam,,Erode-638 005. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 256. | M/s.Shree Vigneswara Bleaching Works,Kulathukaddu Thottam,Sottaiyampalayam R N Pudur Post,Erode 638 005 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 257. | M/s.Kurinji Bleachers,80-7 Anapali Thottam Perumalmai Road,RN Pudur Suriyampalayam Village,Erode | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 258. | M/s.Taj Textiles,94-5 94-6 part Suriyampalayam Village,Perumalmai Road Rayapalayam Pudur,Chithode Post Erode 638 102 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |

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| 259. | M/s.M S Bleachers,283 1 Suriampalayam,Bhavani Main Road,R N Pudur Erode 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 260. | M/s.Samy Textile Processing,Rayapalayam Pudur Perumalmai Road,Suriyampalayam Village,Chithode Erode | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 261. | M/s.GURURAM BLEACHING WORKS,NO-18 PAVA THOTTAM,JAVULI NAGAR R.N.PUDUR POST,ERODE 638 005 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 262. | M/s.Abinaya Fabric,Athayee Amman Kovil Thottam,Kumarayeevalasu Post,GovindanaickenpalayamM odakurichi Erode | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 263. | M/s.Sree Rajaganapathi Bleaching Works,Govindanaickenpalayam, Komarayeevalasu Post,Modakurichi Erode | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 26 | Zlds provided | Recycling to process |
| 264. | M/s.Arasumani Textile Prints,Athayee Amman Koil Thottam,Govindanaickenpalaya mKumarayeevalasu,Modakurichi Erode638 104 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 265. | M/s.Shri Sivasakthi Yarn Bleaching,441 Govindanaickenpalayam,Nanjai Uthukuli,Erode | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |

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| 266. | M/s.Jayabalaji Dyeing Processing Unit,Vairapalayam Main Road,Vairapalayam,Erode 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 48 | 485 | Zlds provided | Recycling to process |
| 267. | M/s.KAMACHIAMMAN BLEACHINK,117 Water Office Road,Vairapalayam,Erode 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 268. | M/s.Sri Palani Andavar Bleaching Works,S F No 68 23 Vaikal Road,Krishnapalayam,Erode 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 269. | M/s.Sri Madheswara Bleaching,36 Mariamman Koil Street,Vairapalayam,Erode 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 7 | 75 | Zlds provided | Recycling to process |
| 270. | M/s.Sellva Bleachers,Kalingar Nagar,Karungalpalayam,Erode 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 6 | 60.1 | Zlds provided | Recycling to process |
| 271. | M/s.Manjula Bleaching Factory,19, Water Works Road,,Vairapalayam,,Erode - 638 003 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 272. | M/s.Manivel Bleaching Company,19,Water Works Road,,Vairapalayam,,Erode - 638 003. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 273. | M/s.Kowsalya Bleaching Works,16-1, Mariyamman Kovil Street,,Vairapalayam,,Erode-638 003. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |

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| 274. | M/s.Sri Gudan Bleaching Works,13- 1 Thasilthar Thottam,Vairapalayam,Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 275. | M/s.Bharani Bleaching,21 Mariamman Koil Street,Lingappa Gounder Thottam,Vairapalayam Erode | 1040- Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 276. | M/s.Sakthivel Bleaching Works,VMP Thottam,,Vairapalayam,,Erode - 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 277. | M/s.Revathy Bleaching Works,VMP Thottam,,Vairapalayam,,Erode - 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 278. | M/s.Sri Kathiravan Bleaching Works,VMP Thottam,,Vairapalayam,,ERode- 638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 279. | M/s.Sri Velavan Bleaching Works,7 Thasildhar Thottam,Vairapalayam,Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 280. | M/s.Nathan Bleachers,48 - 55 Nethaji Street,,Vairapalayam,,Erode-638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 281. | M/s.Sri Palani Bleaching Works,48, Nethaji Street,,Vairapalayam,,Erode-638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |

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| 282. | M/s.Sri Venkatachalapathy Bleaching Works,6 Water Office Road,Vairapalayam,Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |
| 283. | M/s.Sri Murugan Bleaching Works,71-34, Sinthan Nagar,,Krishnampalayam,,Erode -638 003. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 284. | M/s.Sree Maruthi Bleaching Works,18 Mariamman Kovil Street,Vairapalayam,Erode 638 003 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 285. | M/s.Sree venkateshwara screen printers,230 Kinathankadu thottam,Veerappampalayam Subramaniya Nagar,Thindal Post Erode 638 011 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 286. | M/s.Amutha Prabha Bleaching Works,75 Lakshmi Nagar,Bhavani Main Road,Veerappanchatram Erode -4 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 21.5 | Zlds provided | Recycling to process |
| 287. | M/s.Phoenix Textile Processors Unit-II,1284-1A Kasipalayam Village,Vendipalayam Babu Thottam,Balathandayutham 2nd st Erode 638 002 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 20 | 200.24 | Zlds provided | Recycling to process |
| 288. | M/s.VIGNESH PROCESS,NEETTAPARAI THOTTAM,VENDIPALAYAM,ER ODE 638002 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 11 | 112.36 | Zlds provided | Recycling to process |

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| 289. | M/s.Palaniyappa Textiles,Aaraa Gounder Thottam,Vendipalayam,Erode 638 002 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 290. | M/s.Sivasakthi Tex,1296- 2 Kasipalayam Village,Neettaparai Thottam,Vendipalayam Erode Taluk and District 2 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 291. | M/s.Abraham Textile Processing,ARA Gounder Thottam Vendipalayam,Old Karur Road Erode | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 292. | M/s.A Kathan Textile Process,1317/9 Vaikkal Road Vendipalayam,Karur Bye-pass Road,,Erode-638 002. | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 293. | M/s.Sri Cottaisamy Bleachers,72-188 Vettukattuvalasu,Opp. Southern Printers,Erode - 638 011 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 294. | M/s.Sri Sakthi Murugan Processing Mill,Karuvilparaivalasu,,Villarasampatti,,Erode 638 107 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 25 | 250 | Zlds provided | Recycling to process |
| 295. | M/s.Visak Texx Mills Formerly - Super Tex,Developers and Processor,Karuvilparaivalasu Villarasampatti Post,Erode 638 107 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |
| 296. | M/s.Kaviya Textiles Bleaching and Printing,117 Nalli Thottam,Muniappan Kovil Street,Collector Office Post Erode 11 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |

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|------|--|---|----|-------------------|----|-----|------------------|-------------------------|
| 297. | M/s.Sri Suryodaya Processing Pvt Ltd Unit-II,111-2 Vishnu Thottam,,Villarasampatti,,Perias emur post, Erode-638 004. | 1040- Textile Processing (Bleaching) | RS | Consent issued | 12 | 120 | Zlds provided | Recycling to process |
| 298. | M/s.The Grand Textiles,87 -2 Sethukaran Thottam,Karuvil Parai Valasu Rasampalayam, Villarasampatti PO Erode 107 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 299. | M/s.S S Bleaching and Printing,270 SettukaranKattuThottam,Karuvil paraivalasu,Villarasampatty Post Erode 638 107 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 7 | 70 | Zlds provided | Recycling to process |
| 300. | M/s.IMAGE COLOURS,45, SETTUKKARAN THOTTAM,KARUVILPARAIVAL ASU,VILLARASAMPATTI POST, ERODE DT | 1040- Textile Processing (Bleaching) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 301. | M/s.Deepam Bleachers,100-4 Villarasampatti Village, Velappagoundenvalasu,Erode 638107 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 302. | M/s.VARI TEXTILE PROCESSING MILLS,91/1, Karuvilparaivalasu,Villarasampatti post,Erode 638 107 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |
| 303. | M/s.WIPRO TEXTILES PROCESSING MILLS, 90/16,Karuvilparai valasu,Villarasampatti Post,Erode 638 107 | 1040- Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |

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|------|--|-------------------------------------|----|----------------|----|-----|---------------|----------------------|
| 304. | M/s.Sri Balaji Processing Mills,102-3Villarasampatti Village,Karuvilparaivalasu Villarasampatti Post,Erode 107 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 305. | M/s.Sakthivel Prints,Chemmanpalayam Cross, Nasianoor Road,,Ondikaran Palayam, Villarasampatti,,Erode 638 107 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 1 | 12 | Zlds provided | Recycling to process |
| 306. | M/s.Mayavar Processing,Kandasamy Kadu Karuvilparaivalasu,Villarasampatti Post,Erode 638 107 | 1040-Textile Processing (Bleaching) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 307. | M/s.A.C. Ayyavoo Dyeing,543 -4 A Anumanpalli Village,Erode Taluk,Erode District | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 308. | M/s.Armstrong Process,No -4-Vanniamman Koil Street,,B.P.Agraharam,Erode-5 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 309. | M/s.Century Processing Mills,7, MSAM Tannery Street,,Sathy Cross Road,,B.P. Agraharam, Erode - 638 005. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 310. | M/s.Cheran Textiles,354,Bhavani main road,,B P Agraharam,Erode 638 005 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 311. | M/s.Selva Kumar Dyeing,20, Bhavani Main Road,,B.P. Agraharam,,Erode-638 005. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |

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| 312. | M/s.K.R.P. Process,NathakaaduThottam,,V ani Amman Koil Street,B.P. Agraharam, Erode-638 005. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 313. | M/s.Nitin Textile Corporation,Marapalam 4th Street KAS Nagar,Karungalpalayam,Erode- 638 03. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 314. | M/s.A.V. Textile- Sivasakthi Dyeing Factory,Bhavani Main Road, Nallagoundampalayam,Chithode Kumilamparapu Road,,Erode 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 315. | M/s.Erode Colour Crafts,45 Vivekanandar salai,Vettukkattuvalasu, Collectorate Post,Erode638 011 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 30 | 300 | Zlds provided | Recycling to process |
| 316. | M/s.Elumalai Process - National Dyeing,113, Paraiyankattu Thottam,,Vettukkattuvalasu, Collector Office PO,,Erode - 638 011. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 18 | 182 | Zlds provided | Recycling to process |
| 317. | M/s.Siva Mohan Dye House,Subramaniyam Nagar,Veerappampalayam Road,Erode 638 012 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 12 | 120.24 | Zlds provided | Recycling to process |
| 318. | M/s.SUDHAMA PROCESS,VANNIAMMANKOIL STREET,,B.P.AGRAHARAM,ER ODE-5 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |

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|------|--|----------------------------------|----|----------------|----|-------|---------------|----------------------|
| 319. | M/s.Sri Lakshmi Screen Printers,No107 A Vettukattuvalasu,Saiva Mariamman Koil Backside,Erode-638 011. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 320. | M/s.Kamatchi Dyeing,50, Vani Amman Koil Street,,B.P. Agraharam,,Erode-638 005. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 7 | 75 | Zlds provided | Recycling to process |
| 321. | M/s.Sri Abirami Textile Mills,Sri Sabari Dyeing Mills,Saiva Mariamman Koil Backside,Vettulattuvalasu Erode 638 011 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 322. | M/s.Vishal Bharath Dyeing Mills,46 V M P Thottam,Vairapalayam,Erode 638 003 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 323. | M/s.Rithanya Colours,Oonappar Kadu,Veerappampalayam Thindal Post,Erode -638 012 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 4 | 40 | Zlds provided | Recycling to process |
| 324. | M/s.Sun Process,RSF No235-2part Veerappanchatram Village,148-35 H Pothankattu Thottam,Thindal Post Erode012 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 4 | 40 | Zlds provided | Recycling to process |
| 325. | M/s.Sri Maruthi Fabrics,Pothankattu Thottam,Veerappampalayam,Thindal Post Erode 638 012 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 3 | 30.05 | Zlds provided | Recycling to process |
| 326. | M/s.ASMS Printers,144, Karur Road,,Konavaikal,,Erode-638 002. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |

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|------|---|--|----|-------------------|---|------|------------------|-------------------------|
| 327. | M/s.Senthilvel Dyeing Mills,581 582 Chenniappa Gounder Thottam,Narayanavalasu Nasianoor road,Erode 638 011 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 2 | 25.3 | Zlds provided | Recycling to process |
| 328. | M/s.Uma Devi Dyeing,21, Vaikal Road Sindhan nagar,Vairapalayam,,Erode - 3. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 329. | M/s.Ajantha Fabrics,57 Madhavan Krishna street,VeerappanchatramVillage Vettukattuvalasu,Nasiyanor Road Erode 638 011 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 15.6 | Zlds provided | Recycling to process |
| 330. | M/s.Sri Amman Dyeing,77 Nethaji Street,Vairapalayam,Erode-638 003. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 331. | M/s.Malar Printing Mills,Veerappampalayam Parayankattu Thottam,Vettukattuvalasu,Erode -638 011 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 332. | M/s.Annam Bleaching Factory,142-1, Onnappara kadu,Veerappanpalayam,,Thind al Po, Erode-638 011. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 333. | M/s.Chennimalai Andavar Dyeing Works,Formerly Asiana Dyeing,Opp to KAS Theatre Manakadu Thottam,,Konavaikal, Erode - 638 002. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |

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|------|--|--|----|-------------------|----|------|------------------|-------------------------|
| 334. | M/s.Revathy Dyeing Factory,236 Perundurai Road,,Kumalankuttai,Erode | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 335. | M/s.Ragava Dye House,13-C Subramania Nagar Kaikattivalasu,Veerappampalayam Road,Thindal Post Erode - 638 009 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10.8 | Zlds provided | Recycling to process |
| 336. | M/s.Periaswamy Dye House,15 Baladhandayutham Street,Konavaikal Railway Collony Post,Erode 638 002 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 337. | M/s.Shanthi Dyeing,No-1 V.V.C.R. Nagar II,Erode-638 001,- | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 5 | Zlds provided | Recycling to process |
| 338. | M/s.Sri Soundhar Raja Printers,135 Vivekanandhar Salai,Nasiyanur Main Road Veerappampalayam,Thindal Post Erode 638 012 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 339. | M/s.SHIVA NARAYAN PRINTING MILLS,27B Kallivalasu Street,Kasipalayam Village,Nadarmedu Erode 002 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 340. | M/s.Sre Venkateswara Process,Old Name Priyadharshini Textile Process,31A Vettukattuvalasu Near Saiva,Mariamman Koil Erode 638011 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 7 | 70.1 | Zlds provided | Recycling to process |

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|------|---|--|----|-------------------|---|------|------------------|-------------------------|
| 341. | M/s.JAYAKRISHNA PROCESS,Formerly M/s Sri Amutha Dyeing,10 Water office Road, Vairapalayam,Erode 638003 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 342. | M/s.Thindal Murugan Dyeing,70, Nasiyanoor Main Road,,Veerappampalayam Pirivu, Thindal Post,Erode-638 012 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 343. | M/s.Malar Colours,339-2B Erode Village,Vettukattuvalasu,Erode 638 011 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 344. | M/s.Amman Colours,93 , Vettukattu Valasu,,Veerappanchatram village,,Nasianoor road Erode - 638 011. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 3 | 36.4 | Zlds provided | Recycling to process |
| 345. | M/s.Sri Velmurugan Textiles,Pothankattu Thottam,35-111 Veerappampalayam Thindal Post,Erode 638 009 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 3 | 30.1 | Zlds provided | Recycling process |
| 346. | M/s.Naveenkumar Textiles- New India Textiles,180-1 Veerappanchatram Village,Vivekanandhar Salai Vettukattu Valasu,,Erode-009. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 347. | M/s.Annamar Dyeing Factory,Manalikandasamy Street,,Nalliampalayam Rangampalayam Post,Erode- 638 009. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |

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|------|---|--|----|-------------------|---|------|------------------|-------------------------|
| 348. | M/s.Sree Krishna Dyeing Works,9, Valliammai Street,,Collector Office Post,Erode-638 011 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 349. | M/s.Viknesh Dyeing Factory,43 Jeevanandam Street,Vengai Thottam Kollampalayam,Erode-638 002. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10.5 | Zlds provided | Recycling to process |
| 350. | M/s.Sri Ganapathy Murugan Processing Mills,Lakshmi Kalayana Mandabam Backside,Nasiyanur Road Narayanavalasu,Erode | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 351. | M/s.Om Sakthi Process,D No 30 New No 104,Saivamariamman Kovil Opposite,Vettukattu Valasu, Erode-638 011. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 352. | M/s.Shree Sujatha Textile Mills,Vettukattu Valasu,,Nasiyanoor Main Road,,Erode-638 011. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 353. | M/s.Sri Venkatachalapathy Dyeing,Opposite to Old Water Tank,,Chinna Surampattiyar Thottam,,Kumalankuttai, Erode - 11. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 354. | M/s.Arignar Anna Weavers Co.Op Production,121, Karaivaikkal Road,Erode-638 002.,- | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 355. | M/s.Sree Balaji and Co,59, Appan Nagar,,Municipal Colony,,Erode-638 004. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |

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|------|--|--|----|-------------------|-----|--------|------------------|-------------------------|
| 356. | M/s.Erode Weavers Co-Op P and S Society Ltd,15 Periyamariamman Koil Street,karungalpalayam,Erode 638 003 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 9 | Zlds provided | Recycling to process |
| 357. | M/s.Sri Lalitha Kameswari Dyeing Mills,6 A Covent Colony,Bhavani Main Road,B.P. Agraharam,Erode-638 005 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 3 | Zlds provided | Recycling to process |
| 358. | M/s.Aruna Textile Processing Mills,Gangapuram,,Chitthode - 638 102.,Erode. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 100 | 1000 | Zlds provided | Recycling to process |
| 359. | M/s.Jayavel Processing Mill,213-4 Kongampalayam Road,Gangapuram Post Chithode Erode 638 012,- | 1040- Textile Processing (Dyeing) | RS | Consent issued | 50 | 500 | Zlds provided | Recycling to process |
| 360. | M/s.Shri Muthaiah Process,Gangaapuram Village,Chithode Post,Erode 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 30 | 300 | Zlds provided | Recycling to process |
| 361. | M/s.V.K. Textile Processors,Gangapuram Village Kongampalayam Road,Gangapuram Chithode Post,Erode 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 25 | 250.96 | Zlds provided | Recycling to process |
| 362. | M/s.Spectrum Processing Mill,Gangapuram Village,Chithode Post, Erode 638 102,- | 1040- Textile Processing (Dyeing) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 363. | M/s.Golden Textile Dyers -Sri Rajesh Colours,Mathayan Kadu,,Gangapuram,,Erode-638 102. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |

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| 364. | M/s.ShrieAmmanTex -A JAYAPAL SCREEN PRINTING,Maniyakara Senathipathi Gounder Thottam,Gangapuram Chithode Post,ERODE 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 365. | M/s.S.P.M.Proces Mills Formerly Jayavinayaka,Process Mill,Gangapuram Village Kongampalayam road,Chithode Erode 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 366. | M/s.SRI LAKSHMI BLEACHING DYEING AND,SCREEN PRINTING,Nathankadu Thottam Gangapuram Post,Chithode Via Erode 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 18 | 180.25 | Zlds provided | Recycling to process |
| 367. | M/s.Alwin Colours,Gangapuram Village,Chithode Post,Erode District 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 16 | 160 | Zlds provided | Recycling to process |
| 368. | M/s.Jayasree Textile Processors,Formerly Evershine Textile Processors,Kongampalayam Road,56-6 Gangapuram Village Erode-638 102. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 369. | M/s.Sree Kutti Textile Processing Mills,Gangapuram Village,Kulathukadu chithode,Erode 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 370. | M/s.Kaartik Mills,Gangapuram Village,Kulathukadu chithode,Erode 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |

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| 371. | M/s.Sri Sakthi Textile Processors,213-3, Gangapuram Village,,Erode Taulk,,Erode District.638 004 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 372. | M/s.PKR Textile Process,RS No 74 /6, 7 ,8 ,9, 10,Aerimedu Rayapalayam,Nasiyanur Post Erode 638 107 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 6 | 63.8 | Zlds provided | Recycling to process |
| 373. | M/s.SRILALITHAMBIKATEXIL EPROCESSORS P LTD,67/2 BY PASS ROAD,KUMILAMPARAPPU,CHITHODE 608102 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 30 | 300 | Zlds provided | Recycling to process |
| 374. | M/s.Kaviraj Dyeing Factory,66-3 and 36-4 Kumilamparapu Village,241 West St Sengunthapuram Vaikkalmedu,Chithode Post Erode 638 102 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |
| 375. | M/s.Karthik Dyeing Factory,66, Vaikalmedu,Kumilanparapu Village,,Chithode - 638 102. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 376. | M/s.Viswams Dyeing Factory,Bhavani Main Road Vaikkal Medu,Chithode-638 102,Erode. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 377. | M/s.Vinayagar Dyeing Company,Bhavani Main Road,,Vaikkalmedu,,Chithode, Erode-638 002. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |

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| 378. | M/s.Arul Murugan Dyeing,66 Bhavani Bye Pass Road,Kumilamparappu Village,Chithode Erode District 638 102 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 379. | M/s.R.G.TEX,Kumilamparappu Village,Bhavani By-pass Road,Suriyampalyam Erode | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 380. | M/s.Sree Surya Textile Processors,6-508 Kalingarayanpalayam,Annalakshmi Rce Mill Compound,Bhavani 638 301 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 381. | M/s.SRI VINAYAGA DYEING WORKS,1474/5, 1470/6, Gulur Village.,Odakkadu, Andakothampalayam,Komaraye e Valasu.P.O., Erode-638104. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 382. | M/s.K.N.S DYEING WORKS,Maylie Kattu Thottam,,Kumarayeevalasu.P.O. Modakurrachi Via,Erode District - 638104 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 383. | M/s.K.S.N. DYEING WORKS,1541/3, 4,Maileekattu Thottam,Komarayee Valasu.P.O,Modakkuruchi Via, Erode District-638104 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 384. | M/s.A.C. Easwaran Company,111- A Mugasi Hanumanpalli Village,Aval Poondurai Road,Erode-638 101 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |

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| 385. | M/s.Madhan Dyeing Factory,27-65A Odakadu Indra Nagar,Chitthode 638102,Erode Tk Erode District | 1040-Textile Processing (Dyeing) | RS | Consent issued | 3 | 35 | Zlds provided | Recycling to process |
| 386. | M/s.Sree Ganesh Dyeing Mills,107- 6,7, Bhavani Main Road,Near Kannan Calendering Mills,B P Agraharam Erode 005 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 387. | M/s.Sree mahasree Mills,9, Vaniamman Koil Street,,B.P. Agraharam,,Erode -638 005. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 388. | M/s.Sri Lakshmi Narasimma Textile Process,Sivakumaran Dyeing,6, Vanniamman Koil Street,,Bhavani Main Road, Erode-638 005. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 8 | 80 | Zlds provided | Recycling to process |
| 389. | M/s.Shri Murugan Process,179, Nanjanapuram,,Kathirampatti Post,,Erode-638 107. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 390. | M/s.Madhura Dyeing,Nathakkattu Thottam,,Nanjanapuram,,Kathirampatti, Erode-638 107. | 1040-Textile Processing (Dyeing) | RS | Consent issued. | 6 | 60 | Zlds provided | Recycling to process |
| 391. | M/s.Standard Tex Process Private Limited,Thottipalayam,Nasiyanur Village,Nasiyanur Post Erode 638 107 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 49 | 498 | Zlds provided | Recycling to process |
| 392. | M/s.Sri Karpagavinaayagar Process,11-25 Moolakarai Road,Sindhankuttai,Nasiyanur Erode 638 107 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 25 | Zlds provided | Recycling to process |

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| 393. | M/s.Sri Vidya Mills,8, Mudali Thottam,Periasemur,Veerappan chatram Post,Erode 638 004 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 20 | 200.5 | Zlds provided | Recycling to process |
| 394. | M/s.Janani Textile Bleachers,403 part Muniappampalayam,Periasemur Village,Villarasampatti Post Erode 638 107 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 395. | M/s.Shri Mahadev Mills,Thaneerpandhal Palayam,Periyasemur,,Erode-638 004 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |
| 396. | M/s.Gokul Raaja Dyeing,Periyasemur Village Andikuruvan Thottam,,SSP.Nagar North Vilarasmpatty Post,,Erode-638 107 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 10 | 102 | Zlds provided | Recycling to process |
| 397. | M/s.Sarabam Dyeing,108-A,Sathy Main Road,,Mamarathupalayam, Periyasemur Post,,Erode-638 004. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 398. | M/s.Sri Karthik Mills,11 Periya Kattu Thottam,Asokapuram,Erode 638 004 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 399. | M/s.Sri SuryodaayaProcessingPvtLtd Unit-III,50-A, Mudalithottam,,Soolai, Veerappanchatram,,Erode-638 004. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 25.1 | Zlds provided | Recycling to process |

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| 400. | M/s.Srri Jeyashakkthy Textiles-SreeSakthiTex,1-A,NORTH STREET,AYYANKURAITHOTTAM,,LAKSHMI THEATRE BACKSIDE,,ERODE-4 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 401. | M/s.Siva Sakthi Dyeing,36-A. Cauvery Nagar,,Soolai, Veerappan Chatram PO,,Erode-638 004. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 402. | M/s.Sri Harish Textiles Processors,27, Thanneer Pandal Thottam,,B.P. Agraharam,,Erode-638 005. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 403. | M/s.Sri Krishna Dyeing Works,Muniappan Koil Street, Muthakadu,,Near Vakil Thottam,,Erode-638 004. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 404. | M/s.A. Vadivel Yarn Dyeing,340-A, Muniappan Koil Street,,Manickampalayam,,Erode-638 004. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 405. | M/s.Shri Sai Process,Old NameSri Om Angalamman Dyeing Factory, Muniappanpalayam, Rasampalayam Road,,eriasemur PO, Erode-638 004. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 406. | M/s.Sri Mahalakshmi Dyeing,Pallakattu Thottam,Mamarathupalayam,Periasemur Erode 638 004 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |

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| 407. | M/s.Classic Dyers,RS No 484-4 Railkarar Thottam,CNC Backside. Periyasemur Village,Erode 638 004 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 408. | M/s.Thirupathi Dyeing Unit,507-2 Periyasemur Village,Nathakkattu thottam Near Malli Chamber, Manickampalayam Erode 004 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 409. | M/s.Sincears Dyeing,Nethaji Nagar,Manickampalayam Road,Erode 638 004 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 410. | M/s.Sri Amman Dyeing,513-1, Muniappan Kovil Street,,Policekarar Thottam,,Manickampalayam, Erode - 4. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 8 | Zlds provided | Recycling to process |
| 411. | M/s.NATESHKUMAR TEXTILES,Post Box No 419,88, Nochikattu Valasu,46 Pudur Post Erode-638 002 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 412. | M/s.Sree Mahalakshmi Process,53-1 Sastri Street,Surampattivalasu,Erode-638 009 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 413. | M/s.KUMAR COLOURS Formerly Vetrivel Dyeings,New No 409-5 Old No 231 Anaikattu Road,Surampattivalasu,Erode9. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 6 | 63.2 | Zlds provided | Recycling to process |
| 414. | M/s.RAINBOW TEXTILE PROCSSORS,714 Sangu nagar,,Surampatti,,Erode -638 011. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 6 | 60 | Zlds provided | Recycling to process |

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| 415. | M/s.CLASSIC DYEING,420, Sangu Nagar,Surampatti,Erode-638 011 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 5 | 55 | Zlds provided | Recycling to process |
| 416. | M/s.Shanthi Washing and Belt Calendering,91, Thiru-vi-ka Street,,Surampattivalasu,,Erode. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 417. | M/s.Jeeva Textile Printers,140 3 Surampatti Village,21-A, Thiruvalluvar Street,Surampatti Post Erode 638 009 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 418. | M/s.Sasithara Dyers,Chinnusamy Gounder Thottam,Palayapalayam,Erode 638 011 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 2 | 24.75 | Zlds provided | Recycling to process |
| 419. | M/s.MURUGAVEL DYEING MILLS,Chinnasamy Gounder Thottam,,Palaya Palayam,,Erode-638 011. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 2 | 24.75 | Zlds provided | Recycling to process |
| 420. | M/s.S. V. Yarn Dyeing,Pothikadu Thottam,,Surampatti,,Erode-638 009. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 421. | M/s.Brunthavan Textiles,48- 1 Surampatti Village,Erode 638 001,- | 1040- Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 422. | M/s.A.B.R PRINTING MILLS,46 E.B.Colony, 3rd Kovalan Street,Teachers Colony, Surampatty,Erode-638 011 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |

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| 423. | M/s.Mothi Textiles,194, Gandhiji Road,,Surampatti,,Erode-638 009. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 424. | M/s.THE BUTTERFLY DYEING MILLS,Near Devi Paradise Theatre,Surampattyvalasu,Erode District - 638009 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 425. | M/s.Amman Colours,Palayapalayam Road,Surampattivalasu Erode 11,Erode District | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 426. | M/s.JAYAMANI DYEING FACTORY,83 Sangu Nagar,,Near EB Colony,,Erode 638 009 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 7.2 | Zlds provided | Recycling to process |
| 427. | M/s.Vaibhav Processing Mills P Ltd,191 -A- 1 ,MLR Thottam,Mayapuram Bhavani Main Road,R N Pudur Post Erode 638005 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 62 | 625 | Zlds provided | Recycling to process |
| 428. | M/s.Jai Textile Unit Private Limited,No-3 Perumalmai Road,Rayapalayam Pudur,Chittode Erode 638102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 60 | 600 | Zlds provided | Recycling to process |
| 429. | M/s.Ero Dyeing,250 -6 Javulinagar,Panchayat office Road,R N Pudur Post Erode 638005 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 60 | 600 | Zlds provided | Recycling to process |
| 430. | M/s.Santhi Processing Unit Pvt Ltd,Bhavani Road,Sunnambu Odai,R N Pudur Post Erode 638005 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 40 | 400 | Zlds provided | Recycling to process |

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| 431. | M/s.Erode Textile Process,287 2C Suriyampalayam Village,Annadurai Thottam,Bhavani Road RN Pudur Post Erode 05 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 432. | M/s.Muthu Knit Processing,M L R Thottam, Bhavani Main Road,,R.N. Pudur,,Erode-638 005. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 15 | 150 | Zlds provided | Recycling to process |
| 433. | M/s.Dharani Dyeings,Annadurai Thottam,Bhavani Main Road,R N Pudur Erode 638 005 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 9 | 90 | Zlds provided | Recycling to process |
| 434. | M/s.Shara Faabrics - COLOURS MATCH,ASAITHAMBI THOTTAM R N PUDUR,BHAVANI MAIN ROAD,ERODE 638 005 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 8 | 84 | Zlds provided | Recycling to process |
| 435. | M/s.Ramsons Process Unit,3-2, Perumalmalai Road,,Rayapalayam Pudur,,Chithode - 638 102, | 1040- Textile Processing (Dyeing) | RS | Consent issued | 7 | 70 | Zlds provided | Recycling to process |
| 436. | M/s.Vigneswara Dyeing Mills,No 17 Bhavani Main Road MLR Thottam,,Mayapuram,,R.N. Pudur PO Erode - 638 005. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 5 | 56.1 | Zlds provided | Recycling to process |
| 437. | M/s.MURTHI DYEING,91-1 2 3 Perumalmalai Road,Rayapalayam Pudur,Chithode Erode 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 3 | 38.5 | Zlds provided | Recycling to process |
| 438. | M/s.Siva Sakthi Processors,337- 5, Maravapalayam,,R.N. Pudur Po,,Erode-638 005. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |

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| 439. | M/s.Sri Kishore Dyeing,18 - Perumal Malai Road,,Rayapalayam Pudur,,Chithode-638 102. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 440. | M/s.Shri Balaji Dyeing Factory,Magesh Thottam,,Bye Pass Road,,Chittode, Erode.638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 441. | M/s.SHREE MAHALAKSHMI DYEING,PERUMALMALAI ROAD,RAYAPALAYAM PUDUR,CHITHODE ERODE 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 2 | 21.29 | Zlds provided | Recycling to process |
| 442. | M/s.Angalamman Dyeing Factory,80-6, Suriyampalayam Village,,Perumal Malai Road,RayapalayamPudur,,Chith ode Erode 638 102. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 443. | M/s.LAKSHMI PROCESSING MILLS,276, RAYAPALAYAM,CHITHODE,E RODE 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 444. | M/s.GANGA DYEING WORKS,PERUMALMALAI ROAD,RAYAPALAYAM PUDUR,CHITHODE ERODE638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 15 | Zlds provided | Recycling to process |
| 445. | M/s.MahaaSakthi Ganesh Mills- Vanmathi Dyeing,Suriyampalayam Village,Bhavani Bypass Road, Chithode,,Erode 638 102 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 14.12 | Zlds provided | Recycling to process |

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| 446. | M/s.Sri Amman Dyeing Works,Govindapaickaen Palayam,,Komarayee Valasu Po,,Modakkuruchi, Erode-638 104. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 2 | 26 | Zlds provided | Recycling to process |
| 447. | M/s.VELAVAN YARN DYEING,1598/3 Thuyyam Poondurai Village,AtthayammanKovilThottamGovindanaikken,palayam KumarayeevalasuPO Erode 638104 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 448. | M/s.Jayabalaji Dyeing,Door No.24,Vairapalayam Main Road,Vairapalayam Post , Erode 638 003 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 41 | 415 | Zlds provided | Recycling to process |
| 449. | M/s.Bharath Textile Processing,50-1A VMP Thottam,Vairapalayam,Erode 638 003 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 41 | 415 | Zlds provided | Recycling to process |
| 450. | M/s.Swathe Processing Mill,Methaipotta Thottam,59 Nethaji street,Vairapalayam Erode 638003 | 1040- Textile Processing (Dyeing) | RS | Consent issued | 25 | 250 | Zlds provided | Recycling to process |
| 451. | M/s.Jayavel Dyeing - Formerly Vela Colours,Vaikkal road,,Krishnampalayam,,Erode-638 003. | 1040- Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 452. | M/s.Thiruvalluvar Textiles,No 3 Pachiamman koil st Karungalpalayam,Erode-638 003,- | 1040- Textile Processing (Dyeing) | RS | Consent issued | 4 | 45 | Zlds provided | Recycling to process |

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| 453. | M/s.Chola Process,9, Water Office Road,,Vairapalayam,,Erode-638 003. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 3 | 30 | Zlds provided | Recycling to process |
| 454. | M/s.Ramakrishna Dyeing,Mariamman Koil Street,Vairapalayam Main Road,Erode-638 003 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 455. | M/s.Sree Mahalakshmi Dyeing Printing Mills,Bhavani Main Road,,Veerappanchatram Post,Erode-638 004 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 456. | M/s.Murthy Textile Dyeing Factory,61- Nethaji Road,,Vairapalayam,,Erode-638 003. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 7.26 | Zlds provided | Recycling to process |
| 457. | M/s.Phoenix Textiles Processors,17BabuThottam Balathandayutham 2ndstreet,Gandhipuram Vendipalayam,Karur Road Erode 638 002 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 1 | 10 | Zlds provided | Recycling to process |
| 458. | M/s.ImperialTextileDyers,Formerly PremierTextileDyers,Karuvilparaivalasu, Villarasampatti PO,,Erode 638 107 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 50 | 500.1 | Zlds provided | Recycling to process |
| 459. | M/s.PREMIER TEXTILE DYERS,89/1, KARUVILPARAIVALASU,VILLARASAMPATTY,ERODE TALUK ERODE DISTRICT 638 107 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 29 | 290 | Zlds provided | Recycling to process |

Annexure - V

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|------|--|----------------------------------|----|----------------|----|-----|---------------|----------------------|
| 460. | M/s.Meridean Textile Dyers,Formerly Meredian Bleaching Mills,No 87-2 Karuvilparai ValasuRasampalayam,Villarasampatti Post Erode638 107 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 20 | 200 | Zlds provided | Recycling to process |
| 461. | M/s.NAVEENA TEXTILE PROCESS,Villarasampatti Village,Karuvilparaivalasu,Erode 638 107 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 10 | 100 | Zlds provided | Recycling to process |
| 462. | M/s.Sri Sakthi Textiles,Karuvilparai Valasu,Villarasampatti, Nasianoor Via.,Erode-638 107 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 5 | 50 | Zlds provided | Recycling to process |
| 463. | M/s.Raja Lakshmi Yarn Dyeing,Villarasampatti,,Near Muthumanickam Nagar West,,Erode - 4. | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 464. | M/s.THIRUMARUTHI PROCESS,102-2, Karuvil Parai Valasu,,Rasampalayam, Villarasampatti,,Erode b638 107 | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 465. | M/s.Sri Gowri Bleaching and Dyeing,Seerakattu Thottam Villarasampatti Post,Erode 638 107,- | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 466. | M/s.Sri Saravana Guru Bleachers and Dyers,107 2A,2B,2C Villarasampatti Village,Erode Taluk,Erode District | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |

Annexure - V

| | | | | | | | | |
|------|---|----------------------------------|----|----------------|----|------------------|---------------|----------------------|
| 467. | M/s.Balaji Clothing Company,32-107 Thillai Nagar,Erode-638001.,- | 1040-Textile Processing (Dyeing) | RS | Consent issued | 2 | 20 | Zlds provided | Recycling to process |
| 468. | M/s.Velmurugan Process,107-2B 2D part Villarasampatti Village,Sadayankadu Kaikattivalasu,Villarasampatti Post Erode | 1040-Textile Processing (Dyeing) | RS | Consent issued | 40 | 400 | Zlds provided | Recycling to process |
| | Total | | | | | 47848.995 | | |

Industry Details (Tanneries)

Annexure - V

| | | | | | | | | |
|---|--|-----------------|----|----------------|---|--------|----------------|-----------------------|
| 1 | M/s.D Venkateswaran and Brothers Tannery,Bhavani Main Road,B P Agraharam,Erode 638005 | 1045-Tanneri es | RS | Consent issued | 1 | 18.075 | Zlds provide d | Recycli ng to process |
| 2 | M/s.Sri Ranga Tannery,Bhavani Main Road,Peria Agraharam,Erode 638 005 | | RS | Consent issued | 3 | 35.99 | Zlds provide d | Recycli ng to process |
| 3 | M/s.Mohamoda Tanning Company,114-364,Bhavani Main Road,B P Agraharam,Erode 638 005,- | 1045-Tanneri es | RS | Consent issued | 2 | 22.76 | Zlds provide d | Recycli ng to process |
| 4 | M/s.Lead Leathers,30- 3, Bhavani Main Road,B.P. Agraharam,Erode-638 005 | 1045-Tanneri es | RS | Consent issued | 1 | 18 | Zlds provide d | Recycli ng to process |
| 5 | M/s.EKM.Hajee Abdul Jaleel Sahib and Sons,321,Bhavani Main Road,,B.P.Agraharam,Erode-5,- | 1045-Tanneri es | RS | Consent issued | 7 | 72.75 | Zlds provide d | Recycli ng to process |
| 6 | M/s.D.MOHAMED ISMAIL,1,MSAM.TANNERY STREET,B.P.Agraharam,Erode | 1045-Tanneri es | RS | Consent issued | 4 | 48.06 | Zlds provide d | Recycli ng to process |
| 7 | M/s.KAMALA TANNERY,SATHY-BHAVANY CONNECTION ROAD,,B.P.AGRAHARAM,ERO DE- 638 005 | 1045-Tanneri es | RS | Consent issued | 2 | 21.6 | Zlds provide d | Recycli ng to process |
| 8 | M/s.Bay Leather Company,15-Tannery Street,,B.P.Agraharam,Erode-5 | 1045-Tanneri es | RS | Consent issued | 7 | 77 | Zlds provide d | Recycli ng to process |

Annexure - V

| | | | | | | | | |
|----|---|-----------------|----|----------------|---|-------|----------------|-----------------------|
| 9 | M/s.Saromani Tannery,312 Sathy Road,Naripallam Chithode,Erode 638102 | 1045-Tanneri es | RS | Consent issued | 5 | 50 | Zlds provide d | Recycli ng to process |
| 10 | M/s.KAS LEATHERS, 16 SATHY MAIN ROAD, NARIPALLAM,,CHITHODE-638102,ERODE DISTRICT | 1045-Tanneri es | RS | Consent issued | 4 | 49.5 | Zlds provide d | Recycli ng to process |
| 11 | M/s.Rathinam and Rathinam Tannery B Unit, Naripallam,Chithode Post,Erode District | 1045-Tanneri es | RS | Consent issued | 7 | 70 | Zlds provide d | Recycli ng to process |
| 12 | M/s.K. Ahamed Siraj and Brother,1, Sathy Bhavani Connection Road,,B.P. Agraharam,,Erode-638 005. | 1045-Tanneri es | RS | Consent issued | 5 | 50 | Zlds provide d | Recycli ng to process |
| 13 | M/s.The Periya Agraharam Leather Tanners,Co-op Cottage Industrial Society Limited,Sathy-Bhavani connection Road,B P Agraharam Erode 638 005 | 1045-Tanneri es | RS | Consent issued | 3 | 30 | Zlds provide d | Recycli ng to process |
| 14 | M/s.EKM Leather Processing Company,E.K.MOHAMED EBRAHIM SAHIB AND SONS,3,TANNERY STREET, B.P.AGRAHARAM,,ERODE-5 | 1045-Tanneri es | RS | Consent issued | 8 | 84.99 | Zlds provide d | Recycli ng to process |
| 15 | M/s.KAMADHENU TANNERY,21SATHI- BHAVANI CONNECTION ROAD,B.P.Agraharam,Erode-5,- | 1045-Tanneri es | RS | Consent issued | 2 | 24 | Zlds provide d | Recycli ng to process |
| 16 | M/s.E K Hajee Mohamed Meera Sahib and Sons,R. S. No 210 221,Periyasemur,,1 to 8 Eduga street B. P. Agraharam,Erode-638 005 | 1045-Tanneri es | RS | Consent issued | 9 | 93.15 | Zlds provide d | Recycli ng to process |

Annexure - V

| | | | | | | | | |
|----|---|------------------------|----|-------------------|----|-------|----------------------|-----------------------------|
| 17 | M/s.Erode Fine Leather Tannery,No-1 Kilkuravanparai,Periyasemur Veerappanchatram Post,Erode- 638 004 | 1045- Tanneri es | RS | Consent issued | 6 | 60 | Zlds provide d | Recycli ng to process |
| 18 | M/s.V Rangasamy and Company,207,Sathy Main Road Naripallam,Chithode Kongampalayam,Erode 638 102 | 1045- Tanneri es | RS | Consent issued | 6 | 68.19 | Zlds provide d | Recycli ng to process |
| 19 | M/s.SAMY LEATHER TANNERY,97 SATHY ROAD,NARIPALLAM,,CHITHO DE-638102,ERODE DISTRICT | 1045- Tanneri es | RS | Consent issued | 2 | 24.03 | Zlds provide d | Recycli ng to process |
| 20 | M/s.S.A.M.YOUSOOFDEEN TANNERY,101-123,SATHY MAIN ROAD,,MAMARATHUPALAYA M,,NARIPALLAM,ERODE-638 004 | 1045- Tanneri es | RS | Consent issued | 4 | 40.95 | Zlds provide d | Recycli ng to process |
| 21 | M/s.KKSK Leather Processors P Ltd.,Bhavani Main Road,R.N. Pudur,Erode-638 005 | 1045- Tanneri es | RS | Consent issued | 10 | 100 | Zlds provide d | Recycli ng to process |
| 22 | M/s.K K S K Tanning Co P Ltd,Thaneer Pandal Palayam Road,R N Pudur Post,Erode 638 005 | 1045- Tanneri es | RS | Consent issued | 4 | 49.32 | Zlds provide d | Recycli ng to process |
| 23 | M/s.K.K.S.Abdul Samad Sahib,2 - A Tannery Street,R N Pudur,Erode 638 005 | 1045- Tanneri es | RS | Consent issued | 7 | 75 | Zlds provide d | Recycli ng to process |
| 24 | M/s.K Thangamuthu Gounder and Son Tannery,Maravapalayam,R N Pudur Post,Erode 638 005 | 1045- Tanneri es | RS | Consent issued | 4 | 49.95 | Zlds provide d | Recycli ng to process |

Annexure - V

| | | | | | | | | |
|----|---|-----------------|----|----------------|---|-------|----------------|-----------------------|
| 25 | M/s.Aiswarya Leathers,258 Maravapalayam,R N Pudur Post,Erode638 005 | 1045-Tanneri es | RS | Consent issued | 4 | 45 | Zlds provide d | Recycli ng to process |
| 26 | M/s.NKG Leathers,30 Deivapuram,R N Pudur Post,Erode 638 005 | 1045-Tanneri es | RS | Consent issued | 4 | 49.95 | Zlds provide d | Recycli ng to process |
| 27 | M/s.K Rangasamy Gounder Tannery,Maravapalayam,R N Pudur Erode 638 005,SKMA Mohammed Ibrahim and Bros | 1045-Tanneri es | RS | Consent issued | 2 | 24.97 | Zlds provide d | Recycli ng to process |
| 28 | M/s.SKMA Mohammed Ibrahim and Bros,Maravapalayam,R N Pudur,Erode 638 005 | 1045-Tanneri es | RS | Consent issued | 4 | 49.95 | Zlds provide d | Recycli ng to process |
| 29 | M/s.Saravana Leather Processing Centre,M Thanneerpanthal Palayam,R N Pudur Post,Erode 5 | 1045-Tanneri es | RS | Consent issued | 6 | 60.46 | Zlds provide d | Recycli ng to process |
| 30 | M/s.S.A. ABDUL AZEEZ AND CO,BHAVANI MAIN ROAD,SUNNAMBU ODAI RN PUDUR POST,ERODE 638 005 | 1045-Tanneri es | RS | Consent issued | 6 | 63 | Zlds provide d | Recycli ng to process |
| 31 | M/s.An Amm Tanners,47 - 69Veerapannadi Pudur,Sunnambu Odai,R N Pudur Post Erode 638005 | 1045-Tanneri es | RS | Consent issued | 1 | 18.75 | Zlds provide d | Recycli ng to process |
| 32 | M/s.Chemax India-Tannery Formerly-MBLEathers,Suriampalayam Village,Maravapalayam R N Pudur Post,Erode 638 005 | 1045-Tanneri es | RS | Consent issued | 3 | 37.5 | Zlds provide d | Recycli ng to process |
| 33 | M/s.A M Sadick Tannery,Maravapalayam,R N Pudur Post Erode 638 005,Erode District | 1045-Tanneri es | RS | Consent issued | 5 | 55.2 | Zlds provide d | Recycli ng to process |

Annexure - V

| | | | | | | | | |
|----|---|-----------------|----|----------------|---|-----------------|----------------|-----------------------|
| 34 | M/s.Rathnam and Rathnam C Unit,Karunvelankadu R.N. Pudur Post,Erode-638 005.,- | 1045-Tanneri es | RS | Consent issued | 1 | 18 | Zlds provide d | Recycli ng to process |
| 35 | M/s.K MOHAMED HANIFA SAHIB AND SONS,KARUVELANKADU,SURIYAMPALAYAM,R N PUDUR POST, ERODE-638005 | 1045-Tanneri es | RS | Consent issued | 9 | 90 | Zlds provide d | Recycli ng to process |
| 36 | M/s.SAKTHI EXPORTS,KARUVELANKADU, R N PUDUR POST SURIYAMPALAYAM,ERODE-5 | 1045-Tanneri es | RS | Consent issued | 7 | 70.5 | Zlds provide d | Recycli ng to process |
| 37 | M/s.SHREE VENKATESHA PRIME TANNERY,221,BHAVANI ROAD,ASHOKAPURAM,Erode 638 004 | 1045-Tanneri es | RS | Consent issued | 6 | 60 | Zlds provide d | Recycli ng to process |
| | Total | | | | | 1876.595 | | |


District Environmental Engineer
Tamilnadu Pollution Control Board
Erode

25/3/19

SCHEDULE-VI: ENVIRONMENT (PROTECTION) RULES, 1986

(See rule 3A of E (P) Rules, 1986)

**GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART-A:
EFFLUENTS**

| Sl. No. | Parameter | Standards | | | |
|---------|---|--|---------------|---------------------|---|
| | | Inland Surface Water | Public Sewers | Land for Irrigation | Marine coastal areas |
| 1 | 2 | 3(a) | 3(b) | 3 (c) | 3 (d) |
| 1 | Colour and odour | See 6 of Annexure-I | - | See 6 of Annexure-I | See 6 of Annexure-I |
| 2 | Suspended solids mg/l Max. | 100 | 600 | 200 | (a) For process waste water -100 (b)For cooling water effluent 10 % above total suspended matter of influent |
| 3 | Particle size of suspended solids | shall pass 850 micron IS Sieve | - | | (a) Floatable solids, max 3 mm. (b)Settleable solids, max 850 microns |
| 4 | [*Omitted*] | | | | |
| 5 | pH value | 5.5 to 9 | 5.5 to 9 | 5.5 to 9 | 5.5 to 9 |
| 6 | Temperature | Shall not exceed 5°C above the receiving water temperature | - | - | Shall not exceed 5°C above the receiving water temperature |
| 7 | Oil and grease mg/l, Max | 10 | 20 | 10 | 20 |
| 8 | Total residual chlorine mg/l, Max | 1.0 | - | - | 1.0 |
| 9 | Ammonical nitrogen (as N) mg/l, Max | 50 | 50 | - | 50 |
| 10 | Total Kjeldahl nitrogen (as NH ₃) mg/l, Max | 100 | - | - | 100 |
| 11 | Free ammonia [as NH ₃] mg/l, Max | 5.0 | - | - | 5.0 |
| 12 | Biochemical Oxygen Demand (3 days at 27°C) mg/l, Max | 30 | 350 | 100 | 100 |
| 13 | Chemical Oxygen Demand, mg/l Max | 250 | - | - | 250 |
| 14 | Arsenic (as As) mg/l, Max | 0.2 | 0.2 | 0.2 | 0.2 |
| 15 | Mercury (as Hg), mg/l, Max | 0.01 | 0.01 | - | 0.01 |
| 16 | Lead (as Pb) mg/l Max | 0.1 | 1.0 | - | 2.0 |
| 17 | Cadmium (as Cd) mg/l, Max | 2.0 | 1.0 | - | 2.0 |
| 18 | Hexavalent Chromium (as Cr ⁺⁶) mg/l, Max | 0.1 | 2.0 | - | 1.0 |
| 19 | Total chromium (as Cr) mg/l, Max | 2.0 | 2.0 | - | 2.0 |

Annexure - VI

| Sl. No. | Parameter | Standards | | | |
|---------|--|--|--|---|---|
| | | Inland Surface Water | Public Sewers | Land for Irrigation | Marine coastal areas |
| 20 | Copper (as Cu) mg/l Max | 3.0 | 3.0 | - | 3.0 |
| 21 | Zinc (as Zn) mg/l, Max | 5.0 | 15 | - | 15 |
| 22 | Selenium (as Se) mg/l Max | 0.05 | 0.05 | - | 0.05 |
| 23 | Nickel (as Ni) mg/l, Max | 3.0 | 3.0 | - | 5.0 |
| 24 | Omitted | * | * | * | * |
| 25 | Omitted | * | * | * | * |
| 26 | Omitted | * | * | * | * |
| 27 | Cyanide (as CN) mg/l ,Max | 0.2 | 2.0 | 0.2 | 0.2 |
| 28 | Omitted | * | * | * | * |
| 29 | Fluoride (as F) mg/l, Max | 2.0 | 15 | - | 15 |
| 30 | Dissolved Phosphates (as P) mg/l, Max | 5.0 | - | - | - |
| 31 | Omitted | * | * | * | * |
| 32 | Sulphide (as S) mg/l Max | 2.0 | - | - | 5.0 |
| 33 | Phenolic compounds [as C ₆ H ₅ OH] mg/l, Max | 1.0 | 5.0 | - | 5.0 |
| 34 | Radioactive materials | | | | |
| | (a) Alpha emitters [Micro curie/ml] max | 10 ⁻⁷ | 10 ⁻⁷ | 10 ⁻⁸ | 10 ⁻⁷ |
| | (b) Beta emitters [Micro curie/ml] Max | 10 ⁻⁶ | 10 ⁻⁶ | 10 ⁻⁷ | 10 ⁻⁶ |
| 35 | Bio-assay test | 90 % survival of fish after 96 hours in 100 % effluent | 90 % survival of fish after 96 hours in 100 % effluent | 90 % survival of fish after 96 hours in 100 % effluent | 90 % survival of fish after 96 hours in 100 % effluent |
| 36 | Manganese (as Mn) | 2 mg/l | 2 mg/l | - | 2 mg/l |
| 37 | Iron (as Fe) | 3 mg/l | 3 mg/l | - | 3 mg/l |
| 38 | Vanadium (as V) | 0.2 mg/l | 0.2 mg/l | - | 0.2 mg/l |
| 39 | Nitrate Nitrogen | 10 mg/l | - | - | 20 mg/l |
| 40 | Omitted | * | * | * | * |

* Omitted by Rule 2 (d) (i) of the Environment (Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R 801 (E), dated 31.12.1993

Water Quality Criteria -Designated Best Uses of Water

| Designated Best Use | Class | Criteria |
|---|--------------|---|
| Drinking Water Source without conventional treatment but after disinfection | A | 1.Total Coliforms Organism MPN/100ml shall be 50 or less 2. pH between 6.5 and 8.5 3. Dissolved Oxygen 6mg/l or more 4. Biochemical Oxygen Demand 5 days 20 °C, 2mg/l or less |
| Outdoor bathing (Organised) | B | 1.Total Coliforms Organism MPN/100ml shall be 500 or less 2. pH between 6.5 and 8.5 3. Dissolved Oxygen 5mg/l or more 4. Biochemical Oxygen Demand 5 days 20 °C, 3mg/l or less |
| Drinking water source after conventional treatment and disinfection | C | 1.Total Coliforms Organism MPN/100ml shall be 5000 or less 2. pH between 6 and 9 3. Dissolved Oxygen 4mg/l or more 4. Biochemical Oxygen Demand 5 days 20 °C, 3mg/l or less |
| Propagation of Wild life and Fisheries | D | 1. pH between 6.5 and 8.5 2. Dissolved Oxygen 4mg/l or more 3. Free Ammonia (as N)-1.2 mg/l or less 4. Biochemical Oxygen Demand 5 days 20 °C, 2mg/l or less |
| Irrigation, Industrial Cooling, Controlled Waste disposal | E | 1. pH between 6.0 and 8.5 2. Electrical Conductivity at 25 °C micro mhos/cm, maximum 2250 3. Sodium absorption Ratio Max. 26 4. Boron Max. 2mg/l |
| | Below-E | Not meeting any of the A, B, C, D & E Criteria |