



TIRUVALLUR DISTRICT

District Environmental Plan

**(As per Hon'ble NGT order in
O.A.No.710-713/2017 dated 15.07.2019)**



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1. INTRODUCTION

1.0 Preamble:

Hon'ble National Green Tribunal in O.A.No. 710-713 / 2017 dated 15.07.2019 ordered regarding constitution of District Committee (as a part of District Planning Committee under Article 243 ZD) under Articles 243 G, 243 W, 243 ZD read with Schedules 11 and 12 and Rule 15 of the Solid Waste Management Rules, 2016.

In the above said order, it is stated that among others

'Chief Secretaries may personally monitor compliance of environmental norms (including BMW Rules) with the District Magistrate once every month. The District Magistrates may conduct such monitoring twice every month. We find it necessary to add that in view of Constitutional provisions under Articles 243 G, 243 W, 243 ZD read with Schedules 11 and 12 and Rule 15 of the Solid Waste Management Rules, 2016 it is necessary to have a District Environment Plan to be operated by a District committee (as a part of District Planning Committee under Article 243 ZD)'

In this regard, Principal Secretary to Government / Chairman (FAC) vide D.O. letter dated 26.07.2019 requested District Collectors to prepare District Environmental plans by constituting District Committee (as a part of District Planning Committee under Article 243 ZD) with representatives from Panchayats, Local Bodies, Regional Officers, State PCB and a suitable officer representing the administration, which may in turn be chaired and monitored by the District Collector / District Magistrate twice every month and shall host the same in the website for a period of one year on or before 01.08.2019 & furnish monthly progress report to Chief Secretary to Government every month and copy of the same earmarked to TNPC Board accordingly.

As per the directions, District committee was formed in the Tiruvallur District comprising of following members to evolve and execute District Environmental Plan.

1.	District Collector, Tiruvallur District	Chairman
2.	District Revenue Officer, Tiruvallur	Member
3.	Sub-Collector, Tiruvallur	Member
4.	Regional Director of Municipal Administration, Chengalpattu	Member
5.	P.A (P.D), Tiruvallur	Convener
6.	Joint Director, Health Services, Tiruvallur	Member
7.	Joint Director, Animal Husbandary, Tiruvallur	Member
8.	District Siddha Medical Office (I/C), Tiruvallur	Member
9.	District Environmental Engineer, Tamilnadu Pollution Control Board, Tiruvallur and Gummidipoondi	Member
10.	Assistant Director, Town Panchayats, Tiruvallur District	Member
11.	Assistant Director, Panchayats, Tiruvallur	Member
12.	Executive Engineer, PWD, (WRO), Tiruvallur	Member
13.	Municipal Commissioners, Tiruvallur District	Member
14.	Block Deveopment Officers (V.P), Tiruvallur District	Member
15.	Deputy Director, Health Services, Tiruvallur and Poonamallee	Member
16.	General Manager, DIC, Tiruvallur District	Member
17.	Assistant Director (Fisheries), Tiruvallur District	Member
18.	Assistant Director (Mines), Tiruvallur	Member
19.	District Forest Officer, Tiruvallur	Member

The District Environmental plans cover the following environmental issues:

- I. Solid Waste Management
- II. Bio-medical Waste Management
- III. Plastic Waste Management
- IV. Construction and Demolition Waste (C&D)
- V. Polluted river stretches
- VI. Industrial Pollution Control
- VII. Utilization of treated sewage
- VIII. Conservation of water bodies
- IX. E-waste Management
- X. Prevention of illegal Sand Mining
- XI. Prevention of Coastal and Marine Pollution.

2. Solid Waste Management

Preamble:

The Ministry of Environment, Forest and Climate Change, Government of India has notified the Solid Waste Management Rules, 2016. As per the Rules, the role of local body has been specified as per Rule 15 of Solid Waste Management Rules, 2016 and as per Rule 16 of the said Rules, Tamil Nadu Pollution Control Board shall enforce these Rules through local bodies.

With respect to effective implementation of Solid Waste Management Rules, 2016, Hon'ble NGT had laid down several orders, of which, Hon'ble National Green Tribunal, Principal Bench on 22nd December 2016 has passed judgment in Original Application No. 199 of 2014 filed by Mrs. Almitra Patel with regard to solid waste management.

Further, for effective implementation of the said Rules, the Hon'ble NGT in its orders dated 31.08.2018 had constituted Apex Committee, Regional Committee and State Committee. Also, as per Hon'ble NGT order dated: 16.01.2019 in O.A. No. 606/2018, State Level Monitoring Committee (SLMC) in Tamil Nadu is constituted under the Chairmanship of Dr. P. Jyothimani, Former Judge, Madras High Court, Former Judicial Member, National Green Tribunal. The State Monitoring Committee meetings were held on 12.02.2019, 22.02.2019, 29.03.2019, 30.04.2019, 30.05.2019, 10.06.2019 (hotels), 27.06.2019(hospitals).

Solid Wastes generation in Tiruvallur District:

In Tiruvallur District, there are 1 Corporation, 4 Municipalities, 10 Town Panchayats and 14 Panchayat Unions. The solid waste generated from the said local bodies is being collected. The wet solid waste is either composted or micro composted. The plastic waste is collected and partly used for recycling and partly in road laying and the inert material is disposed in the landfill sites.

As per Hon'ble NGT order dated 15.07.2019 in O.A. No. 710-713/2017, the detailed guidelines to be followed in respect of Solid Waste Management Rules, 2016 are illustrated below:

Sl. No.	Responsibility of the District Committee	Plan of Action	Stake holders responsible
1.	Collection,	I. To carry out 100% door to	(i) Commissioner, Corporation

	Segregation & Treatment of solid waste	<p>door collection with segregation at source.</p> <p>II. Quantification of generation of solid wastes (Biodegradable, Non-biodegradable, inerts, etc.)</p> <p>III. Methodology of composting, biomethanation, Waste to Energy, etc. to be adopted</p> <p>IV. Domestic hazardous waste such as discarded paint drums, used batteries, CFL bulbs, etc. to be collected separately and handed over to Hazardous Waste Disposal facilities authorized by the TNPCB</p>	<p>(ii) All Municipal Commissioners, Tiruvallur District.</p> <p>(iii) All Executive Officers (Town Panchayat), Tiruvallur District.</p> <p>(iv) All Block Development Officers (V.P), Tiruvallur District.</p>
2.	Issue of Authorisation under SWM Rules, 2016	<p>Local bodies generating solid waste greater than 5 tons/day shall obtain Authorisation as per SWM Rules, 2016</p> <ul style="list-style-type: none"> • No. of Eligible ULBs to obtain Authorisation as on ____11____. • No. of ULBs obtained Authorisation as on ____11____. 	<p>i) Commissioner, Corporation.</p> <p>(ii) All Municipal Commissioners, Tiruvallur District</p> <p>(iii) All Executive Officers (Town Panchayat), Tiruvallur District</p> <p>(iv) All Block Development Officers (V.P), Tiruvallur District</p> <p>(iv) District Environmental Engineer, Tiruvallur and Gummidipoondi</p>
Sl. No.	Responsibility of the District Committee	Plan of Action	Stake holders responsible
3.	Air Quality Monitoring, Water Quality Monitoring of dumpsites & Compost quality as per Schedule I & II of SWM Rules, 2016 at all Corporations and Municipalities	<p>To carry out Air Quality Monitoring, Water Quality Monitoring (ground water) & Compost quality in and around processing facilities & dumpsites as per Schedule I & II of SWM Rules, 2016 at all Corporations and sensitive / ecological Municipalities</p> <p>Periodicity of Water Quality Monitoring: Summer, Monsoon,</p>	<p>i) Commissioner, Corporation</p> <p>(ii) All Municipal Commissioners, Tiruvallur District</p> <p>(iii) All Executive Officers (Town Panchayat), Tiruvallur District</p> <p>(iv) All Block Development Officers (V.P), Tiruvallur District</p> <p>(v) District Environmental Engineer, Tiruvallur and Gummidipoondi</p>

		Post-Monsoon	<p>(vi) Executive Engineer, TWAD, Tiruvallur</p> <p>(vii) Joint Director, Agriculture, Tiruvallur District</p>
4.	Creating Awareness to the public at all the districts through Special Task Force constituted as per G.O. (Ms) No. 58 of MAWS Dept. dated 20.04.2019	Special Task Force shall periodically review once in two weeks on the status of creating awareness and also on the prevention of dumping of solid waste and discharge of sewage in water bodies, action against open burning of solid wastes, etc	<p>(i) Commissioner, Corporation</p> <p>(ii) All Municipal Commissioners, Tiruvallur District</p> <p>(iii) All Executive Officers (Town Panchayat), Tiruvallur District</p> <p>(iv) All Block Development Officers (V.P), Tiruvallur District</p> <p>(v) Public Relations Officer, Tiruvallur District</p>
5.		Awareness shall be carried out through Eco-clubs in Schools, NSS & NCC in colleges	<p>(i) Chief Educational Officer, Tiruvallur, District.</p> <p>(ii) District Environmental Engineers, Tiruvallur and Gummidipoondi</p> <p>(iii) Public Relation officer, Tiruvallur District.</p>

3. Bio-medical Waste Management

In Tiruvallur District, the Biomedical waste generated from the government and private health care facilities is treated and disposed through the Bio Medical Waste Facility owned by M/s. Tamil Nadu Waste Management Pvt Ltd., Kinar Village, Madhuranthagam Taluk, Kancheepuram District.

The detailed guidelines to be followed in respect of Bio Medical Waste Management Rules, 2016 by the District Committee are given below:

Sl .No	Responsibility of the District Committee / District Level Monitoring Committee	Plan of Action	Responsibilities
1	Inventorisation of Occupiers and data on bio-medical waste generation, treatment & disposal	<ul style="list-style-type: none"> • Number of bedded and non bedded Government and Private Health Care Facilities in the Districts • Number of Blood Banks, Clinical labs in the Districts • List of Institutions under Indian Medicine attached / separate • Veterinary Institution & Animal Husbandry • List of Medical Institution • Forensic Labs & RD labs, etc., 	Joint Director of Health Services, Tiruvallur. Deputy Director of Health Services, Tiruvallur. Joint Director of Health Services, Tiruvallur. District Siddha Medical Officer, Tiruvallur. Joint Director (Animal Husbandry), Tiruvallur. Joint Director Health Services, Tiruvallur. District Environmental Engineer, Tamilnadu Pollution Control Board Tiruvallur and Gummidipoondi.
2	Issue of Bio Medical Waste authorization under Bio Medical Waste Management Rules 2016 and issue of consent under Water (P &CP)Act, 1974 as amended and under Air (P&CP) Act, 1981 as amended	<ul style="list-style-type: none"> • As and when inventorization is added 	District Environmental Engineer, Tamilnadu Pollution Control Board, Tiruvallur and Gummidipoondi.

3	In each district, promoting a full fledged Common Bio Medical Waste Treatment Facilities within one Year	<ul style="list-style-type: none"> • Set up of Common Bio Medical Waste Treatment Facilities (CBMWTFs) consisting of Incinerator having residence time of 2 seconds, shredder with autoclaving facility, sanitary landfills, ash pit etc., 	<p>Joint Director of Health Services, Tiruvallur District, Commissioner, Municipalities, Tiruvallur District / Block Development Officer (V.P), Tiruvallur District, District Environmental Engineer, Tiruvallur and Gumidipoondi Indian Medical Association, Tiruvallur District.</p>
4	Monitoring of Compliance under Bio Medical Waste Management Rules, 2016	<ul style="list-style-type: none"> • To Verify the number of dedicated collection vehicles matching with the quantity of Bio Medical Waste quantity generation and duration of travel • To verify the operation of GPS in each of the dedicated vehicles and functioning of the tracking system in the respective CBMWTFs portal. • Ensuring Bar Coding system adopted for Yellow, red, White and Blue containers with quantification of waste. • verification of Autoclave & incinerable waste generated by HCFs through individual HCFs websites 	<p>Joint Director of Health Services, Tiruvallur District, Commissioner, Municipalities, Tiruvallur District / Block Development Officer (V.P), Tiruvallur District, District Environmental Engineer, Tiruvallur and Gummidipoondi.</p>

		<ul style="list-style-type: none"> • To ensure all the HCFs of hospitals, nursing homes, clinics, dispensaries, veterinary institutions, animal houses, pathological laboratories, blood banks, ayush hospitals, clinical establishments, research or educational institutions, health camps, medical or surgical camps, vaccination camps, blood donation camps, first aid rooms of schools, forensic laboratories and research labs are collecting and sending the Bio Medical waste to common facility • unauthorised deep burial to be prevented. • Periodic inspection at the CBMWTFs to verify the process parameters for the autoclave, incinerator are being followed. 	
5	District Environmental Plans to be hosted in the Website	<ul style="list-style-type: none"> • District Environmental Plans of the District Planning Committee, Minutes of the Bi Monthly Meeting shall be made available in the individual district Revenue Website under the name of District planning Committee for Environment Protection 	P.A (P.D) to District Collector, Tiruvallur
6	Monitoring of Fortnight Reports	<ul style="list-style-type: none"> • Monitoring of Fortnight reports to be submitted to Chief Secretary every Month 	District Collector, Tiruvallur District

4. Plastic Waste Management

In Tiruvallur District, there are 1 Corporation, 4 Municipalities, 10 Town Panchayats and 14 Panchayat Unions which comprises 526 village Panchayats, The local bodies are directed to ensure that the plastic waste generated from the all the local bodies are to be segregated and recyclable plastic waste are sold to the recyclers, low value plastic are utilized for road laying and the non-recyclable plastic waste is sent to co-incineration in Cement Plant and the remaining inerts are disposed for landfill.

In order to give thrust on plastic waste minimization, source segregation, recycling, involving waste pickers, recyclers and waste processors in collection of plastic waste fraction either from households or any other source of its generation or intermediate material recovery facility and adopt polluters pay principle for the sustainability of the Waste Management system, MoEF&CC has notified Plastic Waste Management Rules, 2016 as amended

These rules shall apply to every waste generator, local body, Village Panchayat, manufacturer, Importers and producers.

With respect to effective implementation of Plastic Waste Management Rules, 2016, Hon'ble NGT had laid down several orders, of which, Hon'ble NGT in its order dated 12.03.2019 in Original Application No. 247/2017 among other things has directed all the States to prepare respective action plans for compliance of Rules and the same was submitted to the CPCB on 01.05.2019.

Further, the Government of Tamil Nadu, in exercise of the powers conferred under Section 5 of the Environment (Protection) Act, 1986 notified ban on manufacture, store, supply, transport, sale or distribute of use and throwaway plastics from 01.01.2019 vide G.O. (Ms). No.84 dated 25.06.2018.

The Action plan to be followed in respect plastic Waste Management Rules are given below,

S. No.	Responsibility of the District Committee	Plan of Action	Stake holders responsible
1.	Segregation and Quantification of Plastic Wastes	i) No. of Material Recovery facilities established, quantity received and sent for beneficial uses. ii) Quantification of generation of plastic wastes	i) Commissioner, Corporation (ii) All Municipal Commissioners Tiruvallur District (iii) All Executive Officers (Town Panchayats), Tiruvallur District (iv) All Block Development Officers (V.P), Tiruvallur District Plastic Manufacturing Association, Industries, NGOs.
S.	Responsibility of	Plan of Action	Stake holders responsible

No.	the District Committee		
2.	Channelizing the collected waste plastics(T/M)	i) Recycling of waste plastics ii) Mixed with bitumen for Road laying iii) Co-processing/co-incineration in cement plants iv) Pyrolysis plants	(i) General Manager (DIC), Tiruvallur (ii) District Environmental Engineer, Tiruvallur and Gummidipoondi, (iii) Divisional Engineer, Highway Dept. (iv) All Municipal Commissioners, Tiruvallur District. (v) All Executive Officers (Town Panchayat), Tiruvallur District (vi) All Block Development Officers (V.P), Tiruvallur District
3.	Issue of Registration as per PWM Rules, 2016	<ul style="list-style-type: none"> • No. of recycling units identified for Registration, and issued with Registration as on_____ • No. of multi layer plastic units identified for Registration and issued with Registration as on_____ 	District Environmental Engineer, Tiruvallur and Gummidipoondi,
4.	Action regarding User & Throwaway Plastic ban notification as per G.O. (Ms). No.84 of E&F Dept. dated 25.06.2018	Zone wise surprise inspections will be carried out once in a month and if any banned use & throwaway plastic manufacturers found, Directions for Closure & disconnection of power supply will be effected	(i) Commissioner, Corporation. (ii) All Municipal Commissioners, Tiruvallur District. (iii) All Executive Officers (Town Panchayat), Tiruvallur District (iv) All Block Development Officers (V.P), Tiruvallur District (v) District Environmental Engineer, Tiruvallur and Gummidipoondi,
5.	Awareness creation	Awareness shall be carried out through Eco-clubs in Schools, NSS & NCC in colleges	(i) Chief Education Officer, Tiruvallur (ii) District Environmental Engineers, Tiruvallur and Gummidipoondi

5. C&D Waste Management

In Tiruvallur district, municipalities and town panchayats are advised to ensure that the Construction and Demolition wastes are disposed without affecting the Environment.

As per Hon'ble NGT order dated: 15.07.2019 in OA. No. 710 – 713 /2017, the detailed guidelines to be followed in respect of C&D Waste Management Rules, 2016 by the District Committee as given below.

Sl.No.	Responsibility of the District Committee	Plan of Action	Stake Holders responsible
1.	Handling of construction and demolition waste	Identification & Establishment of site for Construction and Demolition processing facility	(i) District and Town Planning / Local Planning Authority, (ii) Commissioner, Corporation. (iii) All Municipal Commissioners, Tiruvallur District. (iv) All Executive Officers (Town Panchayat), Tiruvallur District (v) All Block Development Officers (V.P), Tiruvallur District
2.	Issue of Authorization	To grant authorization to C&D waste processing facility	District Environmental Engineer, Tamil Nadu Pollution Control Board, Tiruvallur and Gummidipoondi

6. Rejuvenation of Polluted River Stretches

Preamble:

- Central Pollution Control Board in association with State Pollution Control Boards monitors the water quality of major Rivers and Lakes under the Global Environmental Monitoring System (GEMS) and Monitoring of Indian National Aquatic Resources System (MINARS) programme.
- Based on the consolidated reports of GEMS and MINARS during the year 2005 to 2011, the CPCB has identified 351 polluted river stretches in the country.

Polluted River Stretches in Tamil Nadu:

- In Tamil Nadu, CPCB has identified six numbers of Polluted River Stretches based on the Bio-Chemical Oxygen Demand (BOD) values namely River Sarabanga, Vasista, Thirumanimutharu, Cauvery under priority-I (BOD > 30mg/l), River Bhavani under priority-IV (BOD - 6 to 10mg/l) & River Thamirabarani under priority-V (BOD - 3 to 6mg/l).
- Hon'ble NGT (PB) has directed all the States and Union Territories to prepare action plans within 31.01.2019 for bringing all the polluted river stretches to be fit atleast for bathing purposes (i.e., BOD < 3mg/l & FC < 500 MPN/100ml) within six months from the date of finalisation of the action plans and subsequently the time limit extended for two years ie., within 31.03.2021 vide its order dated 08.04.2019.

As per CPCB identification, no Polluted River stretches in Tiruvallur District. However, the PWD, Revenue and Local body officers are advised to ensure that all the encroachments are removed in the important rivers such as Cooum, Kosathalaiyar, Araniyar. Also, the TNPC Board has been directed to monitor any industrial discharge into the said rivers. Moreover, the Local bodies have been directed to ensure that no sewage is discharged into the river.

7. Industrial Pollution Control

Tiruvallur District is known for Automobile manufacturing and its allied Engineering industries, Foundary, Steel Re-Rolling, Thermal Power Plant, Sponge Iron, LPG bottling units and Common Hazardous Waste treatment and disposal facility M/s. Tamilnadu Waste Management Ltd, Gummidipoondi for disposal of Hazardous Waste.

Major Small scale industries are located in SIDCO Industrial Estates Tirumazhisai, Kakkalur, R.K.Pet, Gummidipoondi, Thirumullaivoyal, Sengarai. The Major Large scale industries are located in SIPCOT Industrial estate of Gummidipoondi and Thervoykandigai.

The details of Industries obtained consent of TNPCB Board are given as follows

Categories	Numbers of Industries
Red	454
Orange	1150
Green	528
Total	2132

All the units generating wastewater are provided with Effluent Treatment Plant and the emission sources are provided with APC measures with stacks to control the emission into the atmosphere.

Hazardous waste Generation:

Out the total 2132 Nos. units 249 units are generating hazardous waste. The hazardous waste generated is scientifically treated and disposed as per the provisions of Hazardous and Other Wastes (M&TBM) Rule 2016. TNPCB is regularly monitoring the generation and disposal of hazardous Wastes. The Hazardous Wastes generated are disposal through common Hazardous Waste treatment and disposal facility located at Gummidipoondi SIPCOT, Tiruvallur District.

The action plan for controlling industrial pollution is given below.

S. No	Responsibility of the District Committee	Plan of Action	Responsibilities
1	Implementation and monitoring of treatment system for liquid effluent	1.No of ETPs required in Industries(Red/Orange/17 category) 2. No of ETPs provided in Industries(Red/Orange/17 category) 3. No of STPs required for the local bodies. 4. No of STPs provided in the local bodies. 5. Functional status of ETPs/STPs. 6. Monitoring of treated effluent qualities of ETP's/STPs.	TNPCB/Industries TNPCB/Industries Local Bodies Local bodies TNPCB /Local body /Industries. TNPCB /Local body /Industries

8. Utilization of treated sewage

Preamble:

In Tamilnadu, total sewage generation is around 5600 MLD and there are 54 Sewage Treatment Plants at a total capacity of 1400 MLD are in operation at all Corporations and selected Municipalities and Town Panchayats.

CPCB and TNPCB have periodically issued directions to the urban/ local bodies to set up Sewage Treatment Plants (STPs) of adequate capacity including provision for sewerage system to cover the entire local/urban areas and the treated effluent to comply with the standards in order to prevent deterioration of surface, sub-surface and coastal waters.

The treated sewage, after ensuring that the prescribed standards for core parameters are met are either used for irrigation or let into water bodies.

As per Hon'ble NGT order dated 27.11.2018 in OA No. 148/2018 directed that all the States and Union Territories ought to prepare and furnish their action plans for utilization of treated sewage in their respective States/UTs. In this regard, an action plan for utilization of treated sewage in the State of Tamil Nadu as prepared by the Municipal Administration & Water Supply Department, Government of Tamil Nadu was submitted to the CPCB on 06.08.2019.

As per the Hon'ble NGT order 15.07.2019 in O.A. No. 710 – 713 /2017, the detailed guideline to be followed in respect of utilization of treatment sewage by the District Committee is given below.

Sl. No.	Responsibility of the District Committee	Plan of Action	Stake holders responsible
1.	Collection and treatment of sewage	<ul style="list-style-type: none">All the municipalities and Town Panchayat shall cover their entire jurisdiction area under UGDS scheme.Sewage received in STP shall be treated to the Discharge standards.	i) Commissioner, Corporation. ii) All Municipal Commissioners, Tiruvallur District (iii) All Executive Officers (Town Panchayats), Tiruvallur District (iv) All Block Development Officers (V.P), Tiruvallur District
Sl. No.	Responsibility of the District Committee	Plan of Action	Stake holders responsible

2.	Quality of treated sewage from STPs	<ul style="list-style-type: none"> • Periodic monitoring of treated sewage with preferably online monitoring for the (Parameters for analysis pH, BOD, TSS, TDS, COD, Total N, Fecal Coliform). 	<ul style="list-style-type: none"> i) Commissioner, Corporation. ii) All Municipal Commissioners, Tiruvallur District (ii) All Executive Officers (Town Panchayats), Tiruvallur District (iii) All Block Development Officers (V.P), Tiruvallur District (iv) Executive Engineer (TWAD), Tiruvallur (v) District Environmental Engineer, Tamilnadu Tiruvallur and Gummidipoondi
3.	Utilization of treated sewage	<ul style="list-style-type: none"> • Industries located near Common STP shall make MoU with the operator of STP so as to utilize treated sewage to meet their industrial requirement after proper tertiary treatment • Treated sewage from the Common STPs shall be utilized for industrial use, agriculture, ground water recharge and other non-domestic use 	<ul style="list-style-type: none"> (i) Commissioner, Corporation. (ii) All Municipal Commissioners, Tiruvallur District. (iii) All Executive Officers (Town Panchayats), Tiruvallur District (iv) All Block Development Officers (V.P), Tiruvallur District (v) District Environment Engineer, Tiruvallur and Gummidipoondi

9. Conservation of Water Bodies

Preamble

The Hon'ble National Green Tribunal Principal Bench, New Delhi in its order M.A. No. 26/2019 in Original Application No. 325/2015 dated: 10.05.2019 has directed that "Identification, Protection and Restoration of water bodies like Ponds, Tanks, Lakes or any other inland water bodies etc., including water bodies having area less than 0.5 acre or more as recorded in the revenue record by the State/Union Territories". By this ground water will be recharged, harnessing of rain water, prevention of soil erosion and maintaining the micro climate will be achieved.

The Hon'ble NGT (PB) in its order directed the States to review the existing framework of restoration of all the water bodies by preparing an appropriate action plan as per the guidelines prescribed the CPCB. Such action plans shall be prepared within three months and furnished to the CPCB which in turn will examine all such plans and furnish its comments to the Hon'ble NGT (PB), New Delhi within two months thereafter. The Chief Secretaries of all the States/UTs in the course of undertaking monitoring exercise in pursuance of the order of this Tribunal in O.A. No. 606/2018, Compliance of MSW Rules, 2016 may also include restoration of water bodies as one of the items.

The CPCB has framed "Indicative Guidelines for Restoration of Water Bodies". In the CPCB guideline its has specified that, the action plan shall be prepared considering the five phases viz., i) Recognition Phase, ii) Restoration Phase, iii) Protection Phase, iv) Improvement Phase and v) Sustenance Phase.

In this regard a meeting was convened by the Chief Secretary, Government of Tamil Nadu with the Head of the concerned departments and discussed about the restoration of all the water bodies (Lakes, Tanks, Ponds, Ooranis) in Tamilnadu. In the meeting the Chief Secretary directed the departments governing / maintaining the water bodies to prepare an action plan indicating the number of water bodies available, number of water bodies already restored, number of water bodies which are already in good condition and doesn't require any intervention at this stage and number of water bodies which require to be restored, the concerned departments were also asked to incorporate the action plan to complete the process of restoration of water bodies within a period of three years and submit to Municipal Administration and Water Supply Department. It is also suggested that departments can also

explore the possibilities of mobilizing Public participation, CSR funds from reputed companies, NGO's in addition to their routine departmental schemes to complete restoration work as per the action plan.

The Chief Secretary also requested the Principal Secretary, Public Works Department to prepare action plan for water bodies including water ways in the Chennai city and other Heads of the department to send their action plan by 24.07.2019 to the Municipal Administration and Water Supply Department so that to consolidate and compile the report and the same will be furnished to the Central Pollution Control Board, Delhi through Tamil Nadu Pollution Control Board before the due date i.e 10.08.2019.

The details water bodies available in Tamilnadu are as below:

Owners	No. of water bodies available	No. of water bodies Rejuvenated in the past five years	No. of water bodies which are under Rejuvenation at present
Greater Chennai Corporation	210	22	84
Municipal Administration Department (CMA)	585	237	38
Directorate of Town Panchayats (DTP)	2186	586	1
Public Works department(PWD)	14341	2713	1674
Rural Development Department (RDD)	70367	1200	-
Hindu Religious and Charitable Endowment department (HR & CE)	2,359	849	9
Total	90,048	5607	1806

The Action plan for Restoration of Water Bodies in Tamilnadu was received by TNPCB on 7.8.2019 from the Principal Secretary, Municipal Administration and Water Supplies Department, Govt. of Tamilnadu for onward submission to CPCB, New Delhi and the same was submitted to CPCB in person on 8.8.2019. It is under consideration of CPCB, Delhi.

Main Water Bodies in Tiruvallur District

1. River Cooum
2. River Kosasthalaiyar
3. Araniyar,
4. Poondi Reservoir,
5. Red hills,
6. Chembrambakkam tank
7. Cholavaram tank

General Action plan for Conservation of Water Bodies in Tiruvallur District:

S. No.	Key Activities and Components	Responsible Department
1.	Collection of Historical, Geographical and geological data for all the Water Bodies	(i) Commissioner, Corporation. (ii) Executive Engineer, PWD, PWD-WRD, (iii) All Executive officers, Town Panchayat, Tiruvallur District. (iv) All Municipal Commissioners, Tiruvallur District (v) Assistant Director (Panchayats), Tiruvallur District. (vi) Hindu Religious & Charitable Endowment Board.
2.	Collection of catchment and lead channel pollution data, sewage disposal contamination data, industrial effluent disposal data, solid waste, plastic waste, e-waste, hazardous waste and C & D waste disposal data for all the Water Bodies	(i) Commissioner, Corporation (ii) Executive Engineer, PWD, PWD-WRD, (iii) All Executive officers, Town Panchayat, Tiruvallur District (iv) All Municipal Commissioners, Tiruvallur District (v) Assistant Director (Panchayats), Tiruvallur District (vi) Hindu Religious & Charitable Endowment Board. (vii) District Environment Engineer,

S. No.	Key Activities and Components	Responsible Department
		Tiruvallur and Gummidipoondi.
3.	Digital mapping of all collected information	(i) Commissioner, Corporation (ii) Executive Engineer, PWD, PWD-WRD, (iii) All Executive officers, Town Panchayat, Tiruvallur District. (iv) All Municipal Commissioners, Tiruvallur District. (v) Assistant Director (Panchayats), Tiruvallur District. (vi) Hindu Religious & Charitable Endowment Board.
4.	Declaring the Designated Best use of water bodies and ascertain the quality of water as per the standard	(i) Commissioner, Corporation (ii) Executive Engineer, PWD, PWD-WRD, (iii) All Executive officers, Town Panchayat, Tiruvallur District (iv) All Municipal Commissioners, Tiruvallur District (v) Assistant Director (Panchayats), Tiruvallur District (vi) Executive Engineer, TWAD, Tiruvallur (vii) Executive Engineer, CMWSSB
5.	Survey to identify the source of pollution and prepare long term preventive measures on Sewage Management, Industrial Effluent Management and Solid waste Management and other associated issues and in-situ facility availability for minimizing the pollution level.	(i) Commissioner, Corporation (ii) Executive Engineer, PWD, PWD-WRD, (iii) All Executive officers, Town Panchayat, Tiruvallur District (iv) All Municipal Commissioners, Tiruvallur District (v) Assistant Director (Panchayats), Tiruvallur District
6.	Deweeding, Desilting, protection of drainage basin, channels, stabilization of earthen bunds and preparing cost estimation.	(vi) Hindu Religious & Charitable Endowment Board.

S. No.	Key Activities and Components	Responsible Department
7.	Removal of encroachments and blockades, deciding on flood control measures and preparing cost estimation	(i) Commissioner, Corporation (ii) Executive Engineer, PWD, PWD-WRD, (iii) All Executive officers, Town Panchayat, Tiruvallur District (iv) All Municipal Commissioners, Tiruvallur District (v) Assistant Director (Panchayats), Tiruvallur District (vi) District Superintendent of Police, Tiruvallur.
8.	Good Governance, transparency and empowerment of stakeholders, deciding ownership of each water body, creating awareness and training programme for conservation, promoting public participation	(i) Commissioner, Corporation (ii) Executive Engineer, PWD, PWD-WRD, (iii) All Executive officers, Town Panchayat, Tiruvallur District (iv) All Municipal Commissioners, Tiruvallur District (v) Assistant Director (Panchayats), Tiruvallur District (vi) Chief Educational Officer, Tiruvallur.

10. E-Waste Management

The Ministry of Environment, Forest and Climate Change, Government of India has notified E-Waste (Management) Rules 2016 for safe handling and disposal of e-waste in the country. In this regard, the Hon'ble NGT (PB) in its order dated 12.02.2019 in O.A. No. 512/2018 has issued directions to the stake holders for effective implementation of the e-waste management rules. Accordingly, action plan for the District to comply with NGT directions is given below:

Sl. No.	Responsibility of the District Committee	Plan of Action	Responsibility
1	Inventorization of E-waste generation	<p>i. List of electrical and electronic equipment manufacturers, dismantlers, refurbishers, recyclers shall be obtained from the District Industries Centre, Local Bodies.</p> <p>ii. Issue Press Release in News Papers for getting E-waste authorization and consent under Water & Air Acts by the manufacturers, dismantlers, refurbishers, recyclers.</p>	<p>(i) Commissioner, Corporation</p> <p>(ii) General Manager, District Industries Centre, Tiruvallur District</p> <p>(iii) All Executive officers, Town Panchayat, Tiruvallur District</p> <p>(iv) All Municipal Commissioners, Tiruvallur District</p> <p>(v) Assistant Director (Panchayats), Tiruvallur District</p> <p>(vi) District Environmental Engineer, Tiruvallur and Gummidipoondi</p>
2	Details of E-waste generation	No. of manufacturers, dismantlers, refurbishers, recyclers identified and the quantity of e-waste managed by them.	<p>(i) Commissioner, Corporation</p> <p>(ii) General Manager, District Industries Centre, Tiruvallur District</p> <p>(iii) All Executive officers, Town Panchayat, Tiruvallur District</p> <p>(iv) All Municipal Commissioners, Tiruvallur District</p> <p>(v) Assistant Director (Panchayats), Tiruvallur District</p> <p>(vi) District Environmental Engineer, Tiruvallur and Gummidipoondi</p>

Sl. No.	Responsibility of the District Committee	Plan of Action	Responsibility
3	Verification of EPR Authorization of producers, E-Waste management facilities of collection centres, dismantlers, recyclers	i. Inspection of the infrastructure facilities and verification of records by the DEE, TNPCB ii. Submission of quarterly report to TNPCB Head office, by the DEE, TNPCB iii. It is a continuous process. Quarterly report will be submitted by 15th of April, July, October and January.	District Environmental Engineer, Tiruvallur and Gummidipoondi
4	Checking of illegal E-waste management.	i. To ensure e-waste reaches to authorized dismantlers, refurbishers, recyclers	(i) General Manager DIC, Tiruvallur (ii) Commissioner, Corporation. (iii) All Executive officers, Town Panchayat, Tiruvallur District (iv) All Municipal Commissioners, Tiruvallur District (v) Assistant Director (Panchayats), Tiruvallur District (vi) District Superintendent of Police, Tiruvallur District (vii) District Environment Engineer, Tiruvallur and Gummidipoondi
5	Information, Education and Communication (IEC) plan for creating awareness to the public	i. Issue of Press Release explaining E-waste rules and the responsibility of each stake holders. ii. Conduct Awareness programmes to the school/college students and Public in co-ordination with Eco-Club, NCC, NSS, and EPR Authorized Producers.	i. General Manager DIC, Tiruvallur ii. Commissioner, Corporation iii. Public Relation Officer, Tiruvallur District. iv. District Environment Engineer, Tiruvallur and Gummidipoondi v. All Executive officers, Town Panchayat, Tiruvallur District vi. All Municipal Commissioners, Tiruvallur District vii. Assistant Director (Panchayats), Tiruvallur District viii. Chief Educational Officer, and Eco-Club, NCC & NSS Coordinators

11. Prevention of Illegal Sand Mining

Preamble

The Hon'ble National Green Tribunal (PB), New Delhi in order dated 8.4.2019 in O.A. No. 673 of 2018 has mentioned in Para 15 (ix) that '*The Task force will also ensure that no illegal mining takes place in river beds of such polluted stretches*'.

The Government vide G.O (Ms). No. 135 Industries (MMA.1) Department dated 13.11.2009 has reconstituted District Level Task Forces and constituted Taluk Level Task Forces for prevention of illegal mining / transportation of minerals. Accordingly, the District Level Task Forces shall collect / review the information/cases / issues to the illegal mining / quarrying and to monitor the functions of the Taluk Level Task Forces. The District Level Task Force shall meet once in a month without fail to discuss the illegal quarrying / mining / transportation / damage caused to the environment and to send report to State Level Task Force.

The Taluk Level Task Force shall make frequent surprise checks in the mining / quarrying field and on vehicles transporting minerals so as to arrest illicit quarrying / mining / transportation of minerals by forming flying squads and submit its report to District Level Task Forces and it shall meet fortnightly.

In the event of illegal mining, the village administrative officer, Tahsildar, officer-in-charge of Department of Geology and Mining at District Level and the Police officer in-charge of the area shall be held responsible for not taking proper action against the offenders and the concerned District Collector is requested to take Departmental action against them and send a report to Government.

Sand sources in Tiruvallur District

In Tiruvallur District River Cooum, River Kosasthalaiyar, Araniyar are the main sources of sand mining in the district. The district administration along with Revenue department and police department is taking stringent action to prevent illegal sand mining.

District Environmental Plan for preventing illegal sand mining is given below:

Sl. No.	Responsibly of the District Committee	Plan of Action	Responsible Department
1	Preventing illegal river sand mining	<p>i. Identification of river stretches where there are chances for illegal sand mining.</p> <p>ii. Frequent surprise checks in those river stretches by the Taluk Level Task Force and submit reports to District Level Task Force fortnightly.</p> <p>iii. District Level Task Force shall meet once in a month to discuss the illegal mining /transporting /damage caused to the environment and send report to State Level Task force.</p>	<p><u>Taluk Level Task Force</u></p> <p>i. Tahsildar – Convenor</p> <p>ii. Inspector</p> <p>iii. Forest Officer (Forest Range officer)</p> <p>iv. A Representative Dept of Geology & Mining (Assistant Geologist – Gummidipoondi, Ponneri, Tiruttani & Pallipet Taluk and Special Deputy Tahsildar – Tiruvallur, Uthukottai, Poonamallee)</p> <p>v. Representative of RTO</p> <p>vi. Village Administrative Officers</p> <p>vii. Sub Inspector of Police</p> <p>viii. AE (PWD-WRO)</p> <p><u>District Level Task Force</u></p> <p>i. District Collector – Chairman</p> <p>ii. Superintendent of Police</p> <p>iii. District Forest Officer</p> <p>iv. District Revenue Officer</p> <p>v. Regional Transport Officer</p> <p>vi. Revenue Divisional Officer</p> <p>vii. Deputy Superintendent of Police</p> <p>viii. Assistant Director (Panchayat)</p> <p>ix. Assistant Director (Town Panchayat)</p> <p>x. Commissioners of Municipalities</p> <p>xi. District Level official from Tamil Nadu Pollution control Board.</p> <p>xii. Deputy Director (Mines) / Assistant Director (Mines) – Member Secretary /</p>

			convenor xiii. The E.E (PWD – WRO)
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12. District Environmental Plan for Prevention of Coastal and Marine Pollution

In Thiruvallur District, Pulicat lake and all Thermal Power Plants, Port and Petroleum storage Terminals and Pipe line project located in CRZ Zone were monitored in respect of Water and Air pollution continuously by Tamil Nadu Pollution Control, Gummidipoondi.

Further, in Thiruvallur District, District level coastal zone management authority has been constituted to recommend to Central/State level coastal zone level authority for the issue of CRZ clearance for the permitted project activity comes under CRZ notification and to restricts the setting up and expansion of any industry, operations or processes and manufacture or handling or storage or disposal of hazardous substances as specified in the Hazardous Substances (Handling, Management and Tran boundary Movement) Rules, 2009 in the aforesaid CRZ.

As per the Hob'ble NGT in order dated 17.09.2019 in the O.A No. 829/2019 the action plan for the District to comply with NGT direction is given below.

SI.No.	Responsibility of the District Committee	Plan of Action	Responsibility
1.	No untreated sewage / trade effluent shall be let out into coastal and marine water bodies	Local / Urban local Bodies along the sea coast shall set up sewage Treatment Plant (STPs) of adequate capacity including provision for sewerage system to cover the entire local / urban areas Treated effluent shall copy with the Standards.	BDO of Panchayat Union and Executive officer of Town Panchayat in respect of coastal region.

		All the industrial units and commercial units along the sea coast shall provide adequate treatment facilities to treat the sewage and trade effluent to meet the standards.	DEE, TNPCB, Gummidipoondi
2.	No dumping of solid waste in to the coastal and marine area.	Local / Urban local bodies along the sea coast shall set up adequate capacity of solid waste management facilities to cover the entire local / urban areas.	BDO of Panchayat Union and Executive officer of Town Panchayat in respect of coastal region.
		All the industrial units and commercial units along the sea coast shall have adequate facility for management of solid wastes.	DEE, TNPCB, Gummidipoondi


 District Collector 6/5
 Tiruvallur


 25/1/19