



TAMILNADU POLLUTION CONTROL BOARD



From

Thiru. R. Vijayabaskaran, M.E., M.B.A.,
Member Secretary,
Tamil Nadu Pollution Control Board,
No.76, Mount Salai, Guindy
Chennai – 600 032

To

The Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan,
C.B.D. Cum –Office Complex,
East Arjun Nagar, Shahdara
New Delhi-110032.

Letter No. T1/TNPCB/PWM/F.31251/2011, Dated: 31.07.2020

Sir,

Sub: Tamil Nadu Pollution Control Board –Implementation of Plastic Waste Management Rules, 2016 for the state of Tamilnadu – Annual report in Form VI - Furnished–Regarding

I am to invite your kind attention to the subject cited. In this connection, I enclose herewith the Annual Report on implementation of Plastic Waste Management Rules, 2016 for the state of Tamilnadu in the prescribed Form VI for the year 2019-2020 for favour of kind information.

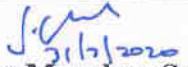
Enclosure: as above


31/7/2020
For Member Secretary

Form VI

Annual Report on the status of Implementation of PWM Rules, 2016 as amended in 2018 for the year 2019-20

Name of the SPCB	Estimated Plastic waste generation in tons per annum (TPA)	Implementation of thickness of less than 50 microns carry bags (virgin / recycled) (Rule 4c)	Details of plastic waste Management (PWM) e.g collection segregation disposal (co-processing, road construction etc). (Rules 5&6)	Partial / Complete ban on usage of plastic carry bags (through Executive order)	No. of registered plastic manufacturing / Recycling (including multilayered, compostable units) (Rule 13)			No of Unregistered Plastic manufacturing / recycling units (in residential or unapproved Areas) (Rule 13)	Status of Marking and Labelling on carry bags (Rule 11)	No of Violations and action taken on non-compliance of provisions of PWM 2016 (Rule 16)	Explicitly pricing of carry bags from producers, brand owners and importers (Rule 15)	Status of submission of Annual Report by ULBs to SPCB/PCCs (Rule 16)
					Plastic units	Compostable plastic units	Multilayered plastic units					
1	2	3	4	5	6			7	8	9	10	11
Tamil Nadu Pollution Control Board	4,31,472	Tamilnadu Government in G.O. (Ms). No.84 dated 25.06.2018, notified ban on manufacture, store, supply, transport, sale or distribute of use and throwaway plastics irrespective of thickness including plastic carry bags of any size and thickness and came into effect from 01.01.2019.	Plastic waste collected is segregated and low value plastics & multi layer plastics used for road laying, recyclable plastic waste sold to recyclers and non-recyclable plastic waste disposed to cement industries for co-processing Details and action plan Vide Annexure A	The Government of Tamil Nadu vide G.O. (Ms). No.84 dated 25.06.2018 notified ban on manufacture, store, supply, transport, sale or distribute of use and throwaway plastics which came into effect from 01.01.2019. Copy of Notification attached vide Annexure B. Details of action taken by the Govt. and the TNPCB for implementation of ban vide Annexure C	Plastic manufacturing units (Producers) - 78 Nos Plastic Recycling units - 227 Nos.	14 No.	3 Nos.	TNPCB is issuing Consent under Water and Air Acts to the plastic manufacturing (Producers) / recycling units located in industrial and commercial zones and Consent is not issued to units located in residential areas.	Tamilnadu Government in G.O. (Ms). No.84 dated 25.06.2018, notified ban on manufacture, store, supply, transport, sale or distribute of use and throwaway plastics irrespective of thickness including plastic carry bags of any size and thickness and hence marking and labeling is not applicable.	Closure Direction and disconnection of power supply were issued to 5 plastic recycling units who were in operation without obtaining consent from the Board and Registration as per PWM Rules, 2016	As per PWM Amendment Rules 2018, Rule 15 is omitted. Hence does not arise	Corporations-15, Municipalities-121, Town Panchayats-528. All the Urban Local Bodies had submitted their Annual report as per the prescribed format of the said Rules.


 For Member Secretary

Annexure
Implementation of Plastic waste Management (Collection segregation & disposal) in the state of Tamil Nadu

1. Generation, Collection and segregation of plastic wastes:

In the state of Tamil Nadu, there are 15 corporations, 121 Municipalities and 528 Town Panchayats. In Tamil Nadu, plastic waste generation is around **4,31,472 tons/annum (1082 tons/day)** out of which **94%** (4,09,114 TPA) is collected & segregated by the respective urban bodies (once/twice in a week). The recyclable plastic waste of **2,68.575 TPA** are channelized for recycling, **46032 TPA** of plastic waste are utilized for co-incineration in Cement Plant (non-recyclable plastic waste) and for road laying (low value plastics) and the remaining inerts are disposed for landfill.

2. Storage of segregated plastic wastes

Resource Recovery Centre / Material Recovery Facility are established to store and periodically dispose the segregated plastic waste in ULBs. Chennai Corporation has established **110 MRFs** and with respect to other Corporations and Municipalities, **358 MRFs** have been established and put into use. With respect to Town Panchayats with waste generation less than 20 TPD, MRFs are provided near the wet waste processing centers.

3. Disposal of plastic wastes:

i) Recycling of Plastic waste

The recyclable plastic wastes are sold to the recyclers directly by the waste collectors and share the cost among themselves as an incentive. In this approach, **3,45,543 MT** of recyclable waste sold and **Rs.88.98 crores** distributed to sanitary workers for the period from August 2017 to 04.03.2020 in 14 Corporations & 121 Municipalities.

ii) Plastic waste used for Road laying

The segregated plastic waste is grinded in shredder machine at the Municipal Compost yard. The shredded plastic waste are mixed with aggregates in bituminous road laying. In the state of Tamil Nadu, about **4375 MT** of non saleable and non recyclable plastic waste were used for laying **3646 kms** of roads in the last 4 years, as per IRC norms in which 10 % of plastic waste is substituted to the bituminous requirement. During 2019-20, 655 tons of non saleable and non recyclable wastes were used for laying 536 kms of road.

iii) Plastic waste disposed to cement industries for co-processing:

The Non-recyclable and combustible fraction of wastes are at present disposed to cement factories / Sugar mills/ power plants. About **116 ULBs** have entered into an

agreement with M/s.Ultratech cements, M/s.India cements, M/s.ACC cements, M/s. Dalmia Cements, M/s. Chettinad Cements, Alten Power plant and Ponni Sugar mills for the for co-processing activities. So far, about **20,776 Tonnes** of non-recyclables were disposed to cement industries from May 2018 onwards.

iv) Plastic waste to oil:

Pyrolysis plants are proposed for safe processing and disposal of plastic wastes that are generated and steps are being taken to establish Pyrolysis plants in various ULBs for the production of Pyro oil from plastic wastes and it is also proposed to establish centres for the conversion of waste plastics & Non-recyclable waste plastic into Paver blocks, interlocks and tiles using Extrusion with Hydraulic compression technique. These viable alternatives will provide a solution for the scientific processing and disposal of Non-recyclable waste fraction and will totally eliminate the environmental hazards and health risks posed by them.

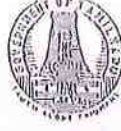
441.73 tons of non-recyclable plastic wastes were sent to pyrolysis plant of M/s. MAK India Pvt Limited, Erode from April 2019 to March 2020.

Also, Greater Chennai Corporation is disposing **450 tons** of plastic waste to M/s.Paterson Energy LTD., Sriperumbudur for usage as fuel.

10 numbers of 100 TPD, 4 numbers of 10 TPD, 1 number of 50 TPD and 10 numbers of 5 TPD Incineration plants are sanctioned to process Non recyclable combustible waste and the works are in the various stages.


31/7/2020
For Member Secretary

ANNEXURE - B



ABSTRACT

Environment - 110 Announcement of the Hon'ble Chief Minister on the floor of the Assembly on 05.06.2018 regarding ban on one-time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986 - Notification - Orders - Issued.

Environment and Forests (EC.2) Department

G.O. (Ms) No.84

Dated:25.06.2018
விளம்பி, ஆணி-11,
திரவள்ளூர் ஆய்வு -2049

ORDER :

The Hon'ble Chief Minister on 05.06.2018, on the floor of the Legislative Assembly, with a view to make Tamil Nadu Plastic Free, has announced, ban on 'one time use and throwaway plastics', irrespective of thickness, with effect from 1st January, 2019 under the provisions of the Environment (Protection) Act, 1986.

2. Accordingly, the following Notification will be published in the TamilNadu Government Gazette:-

NOTIFICATION

WHEREAS, plastic carry bags and other plastic items used in daily life cause short term and long term environmental damage and health hazard;

AND WHEREAS, Article 48-A of the Constitution of India, inter alia, envisages that the State shall endeavour to protect and improve the environment;

AND WHEREAS, it has come to the knowledge of the Government that, the use of 'use and throwaway plastics' such as plastic carry bags, plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups and plastic tumbler, water pouches and packets, plastic straw and plastic flags are causing serious environmental hazards and health problems amongst human beings as well as plants and animals;

AND WHEREAS, it is observed that the plastic wastes are also causing blockage of sewers and drains apart from resulting in pollution of water bodies;

AND WHEREAS, with a view to prevent the recurrence of such problems, the State Government have decided to issue the following directions imposing ban on manufacture, storage, supply, sale and use of 'use and throwaway plastics', such as,

..2..

plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups and plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness.

NOW, THEREFORE, in exercise of the powers conferred under section 5 of the Environment (Protection) Act, 1986 (Central Act 29 of 1986) read with Government of India, Ministry of Environment and Forests Notification No.S.O.152(E), dated: 10th February, 1988, the Governor of Tamil Nadu hereby issues the following directions:-

2. This Notification will come into force on the 1st January, 2019:

THE DIRECTIONS

- 1.(a) No industry or person shall manufacture, store, supply, transport, sale or distribute, 'use and throwaway plastics'.
- (b) No person including shopkeeper, vendor, wholesaler, retailer, trader, hawker or salesmen shall use, 'use and throwaway plastics':

Provided that the plastic used for the following purposes are exempted:-

- (a) The plastic carry bags manufactured exclusively for export purpose against any export order in a plastic industry located in Special Economic Zone (SEZ) and Export Oriented Units (EOU).
 - (b) The plastic bags which constitute or form an integral part of packaging in which goods are sealed prior to use at manufacturing/processing units.
 - (c) The plastic bags and sheets used in Forestry and Horticulture nurseries against the orders from the Government Departments.
 - (d) The plastic used for packing of milk and milk products (dairy products), oil, medicine and medical equipments.
 - (e) Carry bags made from compostable plastics bearing a label "compostable" and conforming to the Indian Standard: IS or ISO 17088:2008 titled as Specifications for "Compostable Plastics".
- 2.(a) The Commissioners, in respect of the Municipal Corporations and the District Collectors, in respect of the local areas other than Municipal Corporations shall ensure prevention of storage, supply, transport, sale, distribution and use of the above said plastic items;
 - (b) District Environmental Engineers shall ensure prevention of manufacturing of the above said plastic items

Explanation 1 - "Plastic" means material which contains as an essential ingredient a high polymer such as polyethylene terephthalate, high density polyethylene, Vinyl, low

..3..

density polyethylene, polypropylene, polystyrene resins, multi-materials like acrylonitrilo butadiene styrene, polyphenylene oxide, polycarbonate, Polybutylene terephthalate.

Explanation 2 - "use and throwaway plastic" means items such as plastic carry bags or plastic flags, plastic sheets used for food wrapping, spreading on dining table etc. plastic plates, plastic coated tea cups and plastic tumbler, water pouches and packets, plastic straw irrespective of thickness.

Explanation 3 - "plastic sheet" means sheet made of plastic.

Explanation 4 - "Carry bag" means bag made from plastic material, used for the purpose of carrying or dispensing commodities which have a self carrying feature but do not include bag that constitute or form an integral part of the packaging in which goods are sealed prior to use.

Explanation 5 - The word "compostable plastic" means plastic that undergoes degradation by biological processes during composting to yield Carbon di-oxide, water, inorganic compounds and biomass at a rate consistent with other known compostable materials, excluding conventional petro-based plastics, and does not leave visible, distinguishable or toxic residue.

(BY ORDER OF THE GOVERNOR)

Md. NASIMUDDIN
PRINCIPAL SECRETARY TO GOVERNMENT

To

The Works Manager, Government Central Press, Chennai-79.

(for publication of the notification in the Extra-ordinary Gazette on 27th June 2018 and to send 50 copies to Government),

All Additional Chief Secretaries/Principal Secretaries/
Secretaries to Government, Secretariat, Chennai-9.

All District Collectors/ All District Judges/ All Chief Judicial Magistrates.

All Departments of Secretariat, Chennai-9.

The Director of Environment, Chennai-15.

The Chairman, Tamil Nadu Pollution Control Board, Chennai-32.

Copy to:-

The Hon'ble Chief Minister office, Chennai-600 009.

The Private Secretary to the Principal Secretary to Government,
Environment and Forests Department, Chennai- 600 009.

The Private Secretary to the Principal Secretary to Government, Law Department,
Chennai- 600 009.

The Personal Assistant to Hon'ble Minister (Environment), Chennai-600 009.

Stock File/Spare Copy.

// FORWARDED: BY ORDER //

M. Nasimuddin
15/6/18
Section Officer.

22/6/18

Annexure C

Complete ban on usages of plastic carry bags etc. in the State

Use and Throwaway plastic ban in the state of Tamilnadu to make

'Plastic Pollution Free Tamilnadu'

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 plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups and plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness vide G.O. (Ms). No.84 dated 25.06.2018. The said ban came into effect from 01.01.2019.

Government Orders for effective implementation of the Ban

For effective implementation of the ban, the following Government orders were issued

S. No.	Purpose	Government Order
1.	Formation of Steering Committee	G.O.(Ms) No.92, E&F (EC.2) Department, dated 05.07.2018
2.	Appointment of Regional Coordinators	G.O. (Ms).No.82, E&F (EC.2) Department, dated 15.06.2018
3.	Sanction of Rs.54 lakhs for conducting Regional Workshops	G.O. (2D) No.30, E&F (EC.2) Department, dated 05.07.2018
4.	Implementation of ban on use and throwaway plastics at all Government Departments	G.O. (D). No.265, E&F (EC.2) Department, dated 20.09.2018
5.	Appointment of TNPCB Officials for assisting Regional Coordinators	G.O. (D). No.319, E&F (EC.2) Department, dated 10.11.2018

Awareness initiatives for successful implementation of Ban

The Tamil Nadu Pollution Control Board has carried out the following initiatives for awareness creation among the concerned stakeholders and the public and for effective implementation of ban.

- Meetings conducted with the representatives of Shopping Malls, Hotels and Marriage Halls, TASMACH, Eco-Clubs, NGC Coordinators and District Coordinators of Tamil Nadu
- District Environmental Committee meetings and massive awareness rallies conducted under the Chairmanship of the District Collectors. Monitoring groups formed by the District Collector are carrying out enforcement of plastic ban notification.
- Workshops for alternative eco-products conducted at all districts
- An exhibit vehicle was inaugurated by the Hon'ble Chief Minister of Tamil Nadu and created awareness at 75 locations all over Tamil Nadu.
- Regional Conferences for Plastic Pollution Free Tamil Nadu to create awareness among various stake holders were conducted at Chennai, Coimbatore, Trichy, Madurai, Tirunelveli and Salem.
- Awareness was created through various media such as hosting of website, social media platforms like Facebook, Twitter, etc. and screening of awareness videos and animation short movies in shopping malls, theatres, etc.
- Display boards showing banned items were placed at 45 toll plazas across NHAI.
- The TNPCB has directed all the large industries throughout the State to comply with the plastic ban order and to create awareness in areas adjoining the industries.
- The Hon'ble CM launched "Reverse Vending Buyback machine to recycle the PET bottles and aluminium can and the same was installed at different locations.

Action taken against manufacturers of banned plastic items

As per the notification of G.O.Ms.No.84, dated 25.06.2018, District Environmental Engineers of TNPCB are responsible to ensure prevention of manufacturing of the plastic items.

The units which were operating illegally were identified during regular inspection and monitoring process and were brought to the knowledge of the Board by way of complaints and other information. As per Inspection report and recommendations from District Officials, TNPCB issues closure direction and disconnection of EB power supply to the violating industries.

In this connection, Closure direction and disconnection of power supply were issued to 63 industries involved in the manufacture of banned plastic manufacturing items which include non-woven carry bags, plastic carry bags, water pouches, etc. from 01.01.2019 onwards.

Further, Closure directions were issued to **57** numbers of banned plastic manufacturing industries through District Coordination Committee in respective districts.

Surprise inspection were carried out by 9 teams of the TNPCB officials of Chennai District across 444 numbers of Starbucks, KFC, McDonalds outlets and other hotels, restaurants etc. and Show Cause Notices issued to 42 number of outlets / hotels who are using use and throwaway banned plastics.


31/7/2020
For Member Secretary

Draft Minutes of the meeting of the State Level Advisory Committee on Plastic Waste Management Rules 2016, Tamil Nadu held on 20.11.2019 at 12.30 PM, at Secretariat, Chennai-9.

In the Chair: Thiru. Harmander Singh, I.A.S.,
Principal Secretary to Government
Municipal Administration and Water Supply Department.

The 5th meeting of the State Level Advisory Committee constituted for implementation of Plastic Waste Management Rules 2016 was conducted by the Principal Secretary to Government, MAWS department/ Chairman of the Committee. The following members attended the meeting.

1)	Dr. K.Baskaran, I.A.S., Commissioner of Municipal Administration, Chennai.
2)	Thiru.G.Prakash, I.A.S., Commissioner, Greater Chennai Corporation.
3)	Thiru. S. Palanisamy, I.A.S., Director of Town Panchayats, Chennai
4)	Tmt.Kalaiselvi Mohan, I.A.S., JCMA, Chennai.
5)	Dr.S.Kanmani, Director, Department of Environment Studies, Anna University, Chennai.
6)	Thiru.N.Mahesan, Chief Engineer (SWM), Greater Chennai Corporation.

At the outset, the Commissioner of Municipal Administration / Member Secretary of the State Level Advisory Committee welcomed the Chairman & Members of the committee.

Extended Producer Responsibility (EPR):

The Principal Secretary instructed that Commissioner of Municipal Administration should take necessary action for convening meetings with the Manufacturers and Producers so as to frame suitable guidelines and Rules for enforcing Extended Producer Responsibility (EPR). The guidelines framed by Punjab can be taken as a model.

Ban on Single use plastic:

The Commissioner of Municipal Administration informed that surprise raids and seizures are being conducted by all the ULBs and so far 1792 MT of single use plastics had been seized with a fine collection of Rs.5.23 Crore.

The Principal Secretary, Municipal Administration and Water Supply Department insisted that strict measures have to be taken to enforce the ban on single use plastics and a weekly report on the seizure and fine collection has to be collected. Commissioner of Municipal Administration informed that the collection of weekly report as insisted by the Principal Secretary is being regularly carried out.

Principal Secretary insisted Greater Chennai Corporation to enforce the ban on single use plastics in an effective manner and instructed Greater Chennai Corporation to conduct frequent raids in Vegetable/Fruit/Flower markets,

Chicken/Mutton stalls and other roadside vendors to enforce the ban in an effective manner.

Disposal of Dry waste

Commissioner of Municipal Administration informed that it is proposed to establish 4 nos of 10 TPD incineration plants to safely dispose the non-recyclables generated in 25 ULBs following the model adopted by Greater Chennai Corporation.

Dr. Kurien Joseph, Professor, Anna University expressed that the establishment of bigger capacity incineration plants for disposal of dry waste at regional level will be more viable and cost effective compared to smaller capacity incineration plants.

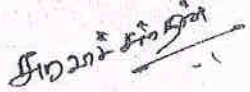
Commissioner, Greater Chennai Corporation informed that the established incineration plant at Mahali is functioning effectively and expressed that though the O&M cost was slightly high in few smaller capacity plants compared to bigger capacity plants, however issues and problem of procuring big sites and associated problems can be avoided and smaller and decentralised plants can be established quickly and operationalised to meet environment safety guidelines in prescribed time limit.

Commissioner, Greater Chennai Corporation also suggested that the faculties from Anna University can visit the Pyrolysis plant in Chengalpattu to validate its functioning so as to facilitate the establishment of more er.of Pyrolysis plants in the State.

The meeting ended with vote of Thanks.

HARMENDAR SINGH
PRINCIPAL SECRETARY TO GOVERNMENT

//True Copy//


Section Officer