

ANNUAL REPORT: 2012-13

on

Implementation

of

PLASTIC WASTE (MANAGEMENT & HANDLING) (AMENDMENT) RULES, 2011



CENTRAL POLLUTION CONTROL BOARD

(PCP DIVISION)

December 2014

IMPLEMENTATION STATUS OF PLASTIC WASTE (MANAGEMENT AND HANDLING) AMENDMENT RULES, 2011

1.0 Introduction:-

Our Society has become dependant on the usage of plastic packaging's. In India approximately 12 Million tonnes of plastic products are consumed every year (2012), which is expected to rise further. Due to liberal use of plastic as packaging metered huge quantity of plastics waste is generated every day. The plastics are widely used as carry bags, packaging films, wrapping materials etc and also used fluid containers, clothing, toys, household applications industrial products, engineering applications, building materials etc. It is worth mentioning that plastic waste will never degrade and remain on landscape for several years causing several types of pollution as well as in aesthetic look. The recycled plastic are more harmful to the environment than the virgin products as they contain colour, additives, stabilizers, flame retardants etc. It is important to understand that recycling of virgin plastic material can be done 2-3 times only since the life cycle of plastic is completed and it is ultimately accumulated/dumped on land fill sites. The tensile strength and quality of plastic is reduced in every recycling. Further it would be worth to say that no authentic data is available on generation of plastic waste in the country. CPCB has carried out a study in collaboration with CIPET, Ahmedabad on "Assessment and Quantification of plastic waste generation in 60 Major Cities" of the country. It is reported that approximately, 3501 TPD of plastic waste (PW) is generated in these cities. The percentage of plastic waste in Municipal Solid Waste (MSW) dumpsites ranges from 3.10% in Chandigarh to 12.47% in Surat.

2.0 Environmental issues in disposal of Plastic Waste:

Indiscriminate littering, unskilled recycling/reprocessing and non-biodegradability of plastic waste raises following environmental issues;

- During polymerization process, toxic fugitive emissions are released;
- During product manufacturing various types of toxic gases are released;
- Indiscriminate dumping of plastic waste on land makes the land infertile;

- Burning of plastic waste emits toxic emissions such as Carbon Monoxide, Chlorine, Hydrochloric Acid, Dioxin, Furans, Amines, Nitrides, Styrene, Benzene, 1, 3-butadiene, CCL₄, and Acetaldehyde.
- Lead and Cadmium pigments, commonly used in LDPE, HDPE and PP, as additives, are toxic and are known to leach out in the environment;
- Non-recyclable plastic wastes such as multilayer, metalized pouches and other thermoset plastic poses disposal problems.
- Sub-standard plastic carry bags, packaging films (<40μ) etc. pose problem in collection and recycling and are ultimately dumped on landfill sites;
- Littered plastic waste gives unaesthetic look in the city, chokes the drain and causes flooding during monsoon.
- Garbage mixed with plastic interferes in solid waste processing facilities besides causing problem in landfill operations.
- Unregistered plastic waste recycling industries operating in non-conforming areas (Residential) are posing threat to environment due to unsound recycling practices.

3.0 Salient Features of the PWM Rules, 2011, as amended in July 2011:

- (i) The plastic carry bags used for the purpose of carrying or dispensing commodities but don't includes bags, which are integral part of packaged products. The thickness of bag shall **not** be <40μ.
- (ii) Carry bags can also be made from compostable plastic conforming to IS/ISO:17088:2008;
- (iii) Prescribed Authority for registration, manufacture & recycling shall be State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) and for enforcement of Rules, relating to use, collection, segregation, transportation & disposal of plastic waste, shall be concerned Municipal Authority;
- (iv) Multilayered pouches or sachets used for packaging of gutkha etc. shall **not** use plastic material in any form;
- (v) Every carry bag made from recycled plastic shall bear a label or mark "recycled" as per IS:14534:1998. Each carry bag made from "Compostable

Material” shall bear a label “Compostable” & shall conform to IS/ISO:17088:2008;

- (vi) No carry bag shall be made available free of cost by retailers to consumers. The concerned Municipal Authority may by **notification** determine the minimum price for carry bags in order to encourage re-use so as to minimize plastic waste generation;
- (vii) Each State Government shall constitute a State Level Advisory (SLA) Body to monitor implementation of Rules. This body shall meet once in a year and may invite experts, if it considers necessary.

(viii) **The Plastic Waste Management (PWM) shall be as under;**

- (a) Recycling, recovery or disposal of plastic waste shall be carried out as per the rules, regulations and standards stipulated by the Central Government from time to time;
- (b) Recycling of plastic shall be carried out in accordance with the Indian Standard IS 14534:1998 titled as Guidelines for Recycling of Plastic, as amended from time to time;
- (c) The Municipal Authority shall be responsible for setting up, operationalisation and co-ordination of the waste management system, and for performing the associated functions, namely:- (i) to ensure safe collection, storage, segregation, transportation, processing and disposal of plastic waste; (ii) to ensure that no damage is caused to the environment during this process; (iii) to ensure setting up of collection centres for plastic waste involving manufacturers; (iv) to ensure its channelization to recyclers; (v) to create awareness among all stakeholders about their responsibilities; (vi) to engage agencies or groups working in waste management including waste pickers, and (vii) to ensure that open burning of plastic waste is **not** permitted;
- (d) For setting up plastic waste collection centres, the Municipal Authority may ask the manufacturers, either collectively or individually in line with the principal of Extended Producer’s Responsibility (EPR) to provide the required finance to establish such collection centre;
- (e) Recyclers shall ensure that recycling facilities are in accordance with the Indian Standard: IS 14534:1998 titled as “Guidelines for Recycling of Plastics” and in

compliance with the rules under the Environment (Protection) Act, 1986, as amended from time to time;

- (f) The concerned Municipal Authority shall ensure that the residues generated from recycling processes are disposed of in compliance with Schedule II (Management of Municipal Solid Wastes) and Schedule III (Specification for Landfill Sites) of the Municipal Solid Wastes (Management and Handling) Rules, 2000 made under the Environment (Protection) Act, 1986, as amended from time to time;
- (g) The Municipal Authority shall incorporate the said rules in the Municipal Bye – laws of the Urban Local Bodies;
- (h) The Municipal Authority shall encourage the use of plastic waste by adopting suitable technology such as in Road Construction, Co-incineration etc. The Municipal Authority or the operator intending to use such technology shall ensure the compliance with the prescribed standards including pollution norms prescribed by the Competent Authority in this regard.
- (ix) Each SPCB or PCC shall prepare and submit Annual Report to CPCB by **30th day of September** each year. The Central Pollution Control Board (CPCB) shall consolidate the report on use of plastic carry bags, sachets/pouches etc. and management of plastic waste. The consolidated report along with recommendations on implementation of the Plastic Waste (Management & Handling) (Amendment) Rules, 2011 will be submitted to MoEF by **30th Day of December**.

4.0 Observations on Plastic Waste Management by States/UTs

Out of the 34 State Pollution Control Boards and Pollution Control Communities (SPCBs/PCCs), 30 SPCB/PCCs have submitted partial information as per the format provided by (CPCB). Based on information provided by the SPCBs/PCCs key observations have been summarised as below:-

1. **Andhra Pradesh** :- The estimated plastic waste generation is **243820** tons/annum. There are 67 registered plastic manufacturing/recycling units and 9 registered multilayered films units registered in the State. The information regarding plastic waste management (as per Rule 6) has **not** been provided. Use of Plastic carry bags has been banned in Pilgrimage centres like Tadipatri and Chilkuru Balaji Temple. The State Government has **not** constituted the **State Level Advisory (SLA)** Body to monitor implementation of Plastic (Management and Handling) (Amendment) Rules, 2011.
2. **Andaman and Nicobar**:- The estimated plastic waste generation is **2555** tons/annum. The use and sale of plastic carry bags is banned in the Island. The Pollution Control Committee has **not** provided information on implementation of Plastic (Management and Handling) (Amendment) Rules, 2011. The Andaman & Nicobar Administration has constituted SLA Body to monitor implementation of the Rules.
3. **Arunachal Pradesh**:-Information on plastic waste generation has **not** been provided. Use of plastic carry bags is banned in 6 districts. The action plan as per Rules '6' on implementation of plastic waste management has **not** been provided. State Government has constituted SLA Body to monitor implementation of Plastic (Management and Handling) (Amendment) Rules, 2011.
4. **Assam**:- The estimated plastic waste generation is **1116** tons/annum. There are 7 registered plastic manufacturing/recycling units and 1 registered multilayered plastic films manufacturing/recycling units in the State. Besides, 15 unregistered plastic manufacturing/recycling units are operating in the residential area. State Board has asked PWD to use plastic waste in road construction. So far, no road has been built in the State. Further SLA Body has **not** been constituted to monitor implementation of Plastic (Management and Handling) (Amendment) Rules, 2011.

5. **Bihar:-** The information related to plastic waste generation has **not** been provided by the State. There are 18 registered plastic manufacturing/recycling units in the State. The Bihar SPCB has **not** provided any information on implementation of Provision of Plastic Waste Management Rules and constitution of SLA Body etc.
6. **Chhattisgarh:-** The estimated plastic waste generation is **5840** tons/annum. There are 20 registered plastic manufacturing/recycling units in the State, besides, there are 08 unregistered plastic manufacturing/recycling in operation. No information on action plan for management of plastic waste has been provided.
7. **Goa:-** The estimated plastic waste generation is **164250** tons/annum. There are 25 registered plastic manufacturing/recycling in the State, besides, the 23 unregistered plastic manufacturing/recycling units operating in the residential areas. Goa SPCB has **not** provided any information on implementation of Plastic Waste Management Rules. However, Goa has notified the non-biodegradable Act. Goa State has **not** constituted SLA Body to monitor the implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.
8. **Gujarat:-** The estimated plastic waste generation is **251796.65** tons/annum. There are 291 registered plastic manufacturing/recycling units in the State. Gujarat SPCB has **not** provided information with regard to Plastic Waste Management. The State Government has constituted SLA Body to monitor the implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.
9. **Haryana:-** The estimated plastic waste generation is **55480** tons/annum. There is one registered plastic manufacturing/recycling unit and 1 multilayered films unit registered in the State. besides, the 5 unregistered plastic manufacturing/recycling units. Use and sale of plastic carry bags is totally banned in Haryana. The details of plastic waste management practices have **not** been provided. The State Government has not constituted SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.
10. **Himachal Pradesh:-** The estimated plastic waste generation is **106.72** tons/annum. There are total 6 registered plastic manufacturing/recycling units

in the State. The usage and sale of plastic carry bag is restricted in Himachal Pradesh. The Himachal Pradesh has **notified** Non-biodegradable (Control) Act, 1995. The Plastic Waste is collected, stored and sold to PWD for road construction. The Himachal Pradesh Government has **not** constituted SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

11. J&K:- The estimated plastic waste generation is **11748** tons/annum. There are 128 registered plastic manufacturing/recycling units in the State. The use and sale of plastic carry bags is completely banned. The State Government has **not** constituted SLA Body to monitor the implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

12. Jharkhand:- The estimated plastic waste generation is **81030** tons/annum. There is no registered plastic manufacturing/recycling unit in the State. However, there are 04 unregistered plastic manufacturing/recycling units operating in the residential area. Information on the Plastic Waste Management has **not** been provided. SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011 has **not** been constituted by the State Government.

13. Karnataka:- The estimated Plastic waste generation is **77247** tons/annum. There are 201 registered plastic manufacturing/recycling units and two (2) compostable & 16 multilayered Plastic films units in the state. Information on action plan on plastic waste management has **not** been provided. The state govt. has not constituted, SLA Body to monitor the implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

14. Kerala:- The estimated plastic waste generation is **50370** tons/annum. There are 807 registered plastic manufacturing/recycling units and 01 plastic multilayered films in the State, besides there are 12 unregistered units operating in the State. The usage of plastic carry bags is restricted in the State. The state Government has **not** constituted, SLA Body to monitor the implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011. No, information on action plan on Plastic Waste Management has been provided.

15. Maharashtra:- The estimated Plastic waste generation is **10950** tons/annum. There are 291 registered plastic manufacturing/recycling units and 111

multilayered plastic films units in the State. Maharashtra Board has issued direction to 239 local bodies, 23 Municipal Corporations, 14 'A' class cities and 202 'B' & 'C' class cities for preparation of Action Plan for plastic waste management. The carry bags <50 µ are **not** allowed in the Maharashtra State. State Government has **not** constituted SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

16. Madhya Pradesh:- The estimated Plastic waste generation is **23400** tons/annum. There are 63 registered plastic manufacturing/recycling units and 4 multilayered manufacturing/recycling units in the State, besides, there are 9 unregistered plastic manufacturing/recycling units operating in residential area. Plastic carry bags are collected, segregated and transported to cement plants for processing. The State Government has constituted SLA Body to monitor for implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

17. Manipur:- The estimated plastic waste generation is **4380** tons/annum. There are 8 registered plastic manufacturing/recycling units in the State, besides, there 10 unregistered plastic manufacturing/recycling units operating in residential area. Manipur Pollution Control Board has **not** provided information on Plastic Waste Management. The State Government has constituted SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

18. Meghalaya:- The estimated plastic waste generation is **4599** tons/annum. There are 5 registered plastic manufacturing/recycling units and one (1) multilayered plastic films unit in the State. Besides, there are 2 unregistered plastic manufacturing/recycling units running in the State. Meghalaya Pollution Control Board has **not** provided Action Plan for Plastic Waste Management. State Government has also **not** constituted SLA Body to monitor for implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

19. Mizoram:- The estimated plastic waste generation is **1682.50** tons/annum. Mizoram Pollution Control Board has **not** provided Action Plan for Plastic Waste Management. The State Government has constituted SLA Body to

monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

20. Nagaland:- The information on plastic waste generation has **not** been provided. There are 4 registered plastic manufacturing/recycling units in the State, besides, there is one (1) unregistered plastic manufacturing/recycling unit operating in residential area. Nagaland Pollution Control Board has **not** prepared Action Plan for Plastic Waste Management. Use and sale of plastic carry bags is totally banned in the State. The State Government has **not** constituted SLA Body to monitor implementation on Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

21. Odisha:- State Government has **not** provided information on estimation of plastic waste generation. There are 7 registered plastic in the State. There are 3 unregistered plastic manufacturing/recycling units operating in the residential area. Odisha SPCB has **not** prepared Action Plan for Plastic Waste Management, however, few urban local bodies are sending plastic waste to M/s ACC Limited, Bargarh for co-processing. The State Government has not constituted SLA body to monitor implementation of Plastic Waste (Management & Handling) (Amendment) Rules, 2011.

22. Punjab:- Punjab Pollution Control Board has **not** provided any information with regard to Annual Report. State Government has **not** constituted the SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

23. Rajasthan:- Rajasthan Pollution Control Board has **not** provided any information with regard to Annual Report. The State Government has **not** constituted SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

24. Tamil Nadu:- The estimated plastic waste generation is **205724.95** tons/annum. There are 137 registered plastic manufacturing/recycling units, 3 compostable units in the State. The Tamil Nadu Pollution Control Board has **not** provided information on Action Plan on Plastic Waste Management. The State Government has constituted SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

25. Sikkim:- The estimated Plastic waste generation is **1668.05** tons/annum. The information regarding no of plastic manufacturing/recycling unit has **not** been

provided by Sikkim Pollution Control Board. Besides, Action Plan relating to Plastic Waste Management has **not** been provided. The State Government has not constituted SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

26. Tripura:- The estimated plastic waste generation is **10950** tons/annum. The information regarding no of plastic manufacturing/recycling unit has **not** been provided by Tripura Pollution Control Board. Besides, information relating to Plastic Waste Management has **not** been provided. The State Government .has not constituted SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.

27. Uttar Pradesh:- Information on plastic manufacturing/recycling has **not** been provided. There are 108 registered units and 91 multilayered plastic films units are present in the state, besides, 17 unregistered plastic manufacturing/recycling units operating in the residential area. For Plastic Waste Management, few Municipal Corporations like Kanpur city have engaged private agencies on PPP mode for collection segregation, transportation & disposal of plastic and municipal solid waste in the City. The waste to energy plant has also been set-up in the close vicinity of the plant.

28. Delhi:- The estimated Plastic waste generation is **251850** tons/annum. The information regarding no of plastic manufacturing/recycling unit has **not** been provided by Delhi Pollution Control Committee. Besides, information relating to Plastic Waste Management has also **not** been provided. The SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011 has **not** been constituted.

29. Lakshadweep:- The administration of Lakshadweep Pollution Control Board has **not** provided any information on Plastic Waste Management .

30. Puducherry:- The estimated Plastic waste generation is **4927.5** tons/annum. There are 1 registered plastic manufacturing/recycling unit and 1 multilayered plastic films units in Puducherry, besides, there are 121 unregistered plastic manufacturing/recycling units operating in residential area. With regard to plastic waste management, trials, have been carried out to use plastic waste in road construction The SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011 has also **not** been constituted.

31. Uttarakhand:- The estimated Plastic waste generation is **not** available. There are 16 registered plastic manufacturing/recycling units in the state. The information regard in plastic waste management has **not** been provided. The State Government has constituted SLA Body to **monitor the implementation** of Plastic Waste (Management and Handling) (Amendment) Rules, 2011 in the state.

32. West Bengal:-The estimated Plastic waste generation is **200750** tons/annum. There are 46 registered plastic manufacturing/recycling units and 14 multilayered plastic films in the state, besides, 378 unregistered plastic manufacturing/recycling units operating in the residential area. The information regarding plastic waste management has **not** been provided by West Bengal Pollution Control Board. The SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011 has **not** been constituted.

33. Chandigarh:- The estimated Plastic waste generation is **4964** tons/annum. There are no registered plastic manufacturing/recycling units in Chandigarh. Use of plastic carry bags is completely banned. The SLA Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011 has **not** been constituted.

34. Daman, Diu & Dadra Nagar Haveli:- The estimated plastic waste generation is **not** available. There are 4 registered plastic manufacturing/recycling units in the Daman, Diu & Dadra Nagar. The information plastic waste management has **not** been provided. The SLA Body to monitor for implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011 has also **not** been constituted.

State-wise status of implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011 is **annexed**.

5.0 Recommendations:

- (i) Municipal Authority shall be made responsible to submit the implementation status of these Rules to the concerned State Pollution Control Boards (SPCBs) & Pollution Control Committees (PCCs) by the **30th day of June** of succeeding year.
- (ii) Plastic Waste (Management and Handling) (Amendment) Rules, 2011 are not being intensely implemented in majority of States/Union Territories.
- (iii) Despite ban of plastic carry bags in many States/Union Territories. These bags are being used indiscriminately.
- (iv) Many States have not constituted State Level Advisory Body to monitor implementation of Plastic Waste (Management and Handling) (Amendment) Rules, 2011.
- (v) Municipal Authorities have not set-up any mechanism or engaged any Agency to ensure safe collection, storage, segregation, transportation, processing and disposal of plastic waste.
- (vi) Open burning of plastic waste should be regulated/stopped.
- (vii) Municipal Authority shall notify minimum price for carry bags depending upon quality and size to encourage minimization of plastic waste generation.

6.0 Action proposed to be taken by Ministry of Environment, Forest & Climate Change (MoEF&CC):

- (i) SPCBs/PCCs shall ensure that all the illegal and unregistered units, including units manufacturing substandard (less than 40 μ thickness) carry bags shall be closed down immediately taking the help of local administration/police and disconnection of electricity, as applicable.
- (ii) Secretaries In-charge of Municipal Bodies in each State/UT shall ensure that all Municipal Bodies in their State/UT to prohibit/ban stocking, selling and use of any carry bag (having handle or non-handle) having less than 40 micron thickness plastic material. Those found stocking/selling such carry bags shall be penalized by imposing a fine of Rs. 1.0 lac and the material stocked or sold shall be confiscated
- (iii) Sale, stock & use of sub-standard plastics carrybags (<40 μ) should be checked by concerned State Government and UTs.
- (iv) Municipal Authority should be directed to ensure proper collection, segregation, transportation & disposal of plastic waste.

- (v) Each State/UTs, should constitute State Level Advisory Body and ensure proper implementation of PWM Rules 2011.
- (vi) MoEF&CC may suitably amend Plastic Waste (Management and Handling) (Amendment) Rules, 2011 in respect of definition of carrybags, Prescribed Authority, Conditions, Penal Provision, Submission of Annual Report by Municipal Authorities etc.
- (vii) Encouraging use of compostable carrybags in place of conventional petro-based plastic carrybags.

State-wise Status of Implementation of PWM Rules, 2011 for the year 2012-13

Name of the SPCB/PC	Estimated Plastic Waste generation Tons Per Annum (TPA)	No. of registered Plastic Manufacturing/Recycling (including multilayer, compostable) units. (Rule 9)			No. of Unregistered plastic manufacturing Recycling units. (in residential/unapproved areas)	States/UTs issued separate Act/Notification if any (Attach copy of notification or executive order)	Implementation of Plastic Waste Management (PWM) e.g. Collection, Segregation, Disposal (Co-processing road construction etc.) (Rules 6) (Attach separate sheet)	Partial or complete ban on usages of Plastic Carry Bags (through Executive Order) (Attach list of Plastic/Cities/Towns)	Status of Marking Labelling on carry bags (Rule 8)	Explicit Pricing of carry bags (Rule 10)	Recommendation of State Level Advisory (SLA) Body on Implementation (Rule 11)	No. of violations and action taken on non-compliance of provisions of these Rules	Number of Municipal Authority under jurisdiction and Submission of Annual Report to CPCB (Rule 12)
		Plastic units	Compostable Plastic Units	Multilayer Plastic units									
(1)	(2)				(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Andhra Pradesh	243820	67	NIL	9	Not Avl.	Not Avl.	Not Avl.	Use of carry bags banned in Tadipatri and Chilkuru Balaji Temple	Not Avl.	Not Avl.	Not Avl.	Six (6) defaulting units were found during the period from April 2009 to March 2011	Incomplete Information regarding no. of Municipal Authority
A & N Island	2555	NIL	NIL	NIL	NIL	Not Avl.	Not Avl.	Not applicable	Not applicable	Use and sale of plastic carrybags totally banned	SLA Constituted	NIL	Incomplete Information regarding no. of Municipal Authority

(1)	(2)	(3)			(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Arunachal Pradesh	Not Avl.	NIL			NIL	No	Not Avl.	Use of carry bags banned in 6 districts	Letter sent to concerned authority	SLA constituted	No information	Not Avl.	Incomplete Information regarding no. of Municipal Authority
Assam	1116	7	NIL	1	15	No	State PWD have been asked to use plastic waste for road construction etc.	No	NIL	Not Avl.	SLA not constituted	Not Avl.	Incomplete Information regarding no. of Municipal Authority
Bihar	Not Avl.	18	Not Avl.	Not Avl.	Not Avl.	Not Avl.	Not Avl.	Not Avl.	Not Avl.	Not Avl.	No information	Not Avl.	Incomplete Information regarding no. of Municipal Authority
Chhattisgarh	5840	20	NIL	NIL	08	Not Avl.	CPCB granted permission for co-processing plastic waste	NIL	Yes	NIL	No information	Ban on manufacturing	Incomplete Information regarding no. of Municipal Authority
Goa	1642.5	25	NIL	NIL	23	Not Avl.	Not Avl.	No	Yes	Goa Non-Biodegradable Act, Notified	SLA not constituted	NIL	Incomplete Information regarding no. of Municipal Authority

(1)	(2)	(3)			(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Gujarat	251796.65	291	01	18	147	NA	5224 MT	Not Avl.	Not Avl.	Not Avl.	NA	Notices issued	Incomplete Information regarding no. of Municipal Authority
Haryana	55480	01	NIL	01	05	NA	Waste management practices are followed in few cities	Use and sale of plastic carry bags is totally banned	Completely banned	Not Avl.	Not Avl.	2160 Challans issued	Incomplete Information regarding no. of Municipal Authority
Himachal Pradesh	106.72	Not Avl.	Not Avl.	06	NIL	Not Avl.	Incomplete Information	Manufacturing sale use of plastic carry bags banned	Not Avl.	Not Avl.	Not Avl.	Not Avl.	Incomplete Information regarding no. of Municipal Authority
J & K	11748	128	NIL	NIL	NIL	Not Avl.	Information not provided	Manufacturing sale use of plastic carry bags banned	Completely banned	Not being followed	SLA not constituted	855.87 qtls polythene bags	Incomplete Information regarding no. of Municipal Authority
Jharkhand	81030	NIL	NIL	NIL	04	Not Avl.	Partly segregated	Partly banned	Completely banned	Incomplete information	SLA body constituted	21	Incomplete Information regarding no. of Municipal Authority
Karnataka	77247	201	02	16	Data not available	NIL	Not Avl.	Not Avl.	Not Avl.	Not Avl.	Not Avl.	Not Avl.	Incomplete Information regarding no. of Municipal Authority

(1)	(2)	(3)			(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Kerala	50370	807	Not Avl.	01	12	Not Avl.	Not Avl.	Use of plastic carrybags is banned	Use of plastic carrybags is banned	Implemented through local bodies	Not Avl.	No violation with respect to production of plastic carrybags	Incomplete Information regarding no. of Municipal Authority
M.P.	23400	63	NIL	04	09	Not Avl.	Plastic carry bags were collected segregated and co-incinerated cement plant	Mandu Dhar Cantonment , Sagar	Incomplete information	Not Avl.	SLA Body constituted	2441 polythene carry bags seized	Incomplete Information regarding no. of Municipal Authority
Maharashtra	10950.0 TPA	491	NIL	111	NIL	Not Avl.	MPCB issued direction to 14 'A' class cities & 202 B&C class cities for preparation of Action Plan	No such ban plastic from State Govt.	Carry bags <50µ not allowed . Plastic sachets for gutkha, banned	Incomplete information	Not Avl.	2441.13 polythene carry bags seized	Incomplete Information regarding no. of Municipal Authority
Manipur	4380	08	NIL	NIL	10	Not Avl.	Incomplete information	There is no partial ban	Ban on the use of thin carry bags	Not Avl.	SLA Body has been constituted	Direction issued to units manufacturing sub-standards plastic carry bags.	Incomplete Information regarding no. of Municipal Authority

(1)	(2)	(3)			(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Meghalaya	4599	5	NIL	01	2	Not Avl.	Not Avl.	No	No	No	Not yet formed	Direction issued to 01 unit manufacturing.	Incomplete Information regarding no. of Municipal Authority
Mizoram	1682.50	NIL	NIL	NIL	NIL	Not Avl.	Not Avl.	Incomplete information	NIL	NIL	SLA Body formed	NIL	Incomplete Information regarding no. of Municipal Authority
Nagaland	Not Avl.	04	NIL	NIL	01	Not Avl.	Incomplete information	Use and sale of plastic carry bags is totally banned	Ban on manufacturing, storage sale of plastic carrybags	No	SLA body was not constituted	NIL	Incomplete Information regarding no. of Municipal Authority
Odisha	Not Avl.	07	NIL	NIL	03	Not Avl.	Few urban local bodies are sending their plastic waste to M/s ACC Ltd. Bargarh for co-processing	Use of carry bags have been banned	No such ban imposed except use of plastic material in gutkha pouches or sachets	NIL	SLA body not constituted	01	Incomplete Information regarding no. of Municipal Authority
Punjab	Information not provided												
Rajasthan	Information not provided												

(1)	(2)	(3)			(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Sikkim	1668.05	NIL	NIL	NIL	NIL	--	--	--	--	--	NIL	--	Incomplete Information regarding no. of Municipal Authority
Tamil Nadu	205724.95	137	3	NIL	Not Avl.	Not Avl.	Ban on use of poly bags/plastic carry bags	Not Avl.	Incomplete information	TNPCB granted permission for co-processing plastic waste	SLA Body has been constituted	Closure direction issued 7 defaulting units	Incomplete Information regarding no. of Municipal Authority
Tripura	10950.0	No information available											Incomplete Information regarding no. of Municipal Authority
Uttar Pradesh	Not Avl.	108	Not Avl.	91	17	Not Avl.	Not Avl.	Waste management practices are followed in few cities like Kanpur	Not Avl.	Incomplete information	Under consideration	25 (for notice issued)	Incomplete Information regarding no. of Municipal Authority
Delhi	251850	(information not provided by DPCC)											
Lakshadweep	(Information not provided)												
Puducherry	4927.50	01	NIL	01	121	51	Road construction on trial carried out using plastic waste	Not Avl.	Use of plastic carry bags completely banned	Carry bags are being charged by the shop owner	Under constitution	Direction were issued to manufacturer of plastic carry bag was issued.	Incomplete Information regarding no. of Municipal Authority

