

MAHARASHTRA POLLUTION CONTROL BOARD

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No. MPCB/RO(HQ)/Battery/ 4753

27-11-2019
Date: 26.11.2019

To,
Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan, CBD Cum – Office Complex,
East Arjun Nagar, Shahadara,
Delhi – 110032.

**Sub: Submission of Annual Compliance Status Report with Batteries
(Management and Handling) Amendment Rules, 2010 for Maharashtra**

Sir,

Please find attached herewith the Annual Compliance Report with Battery Waste Management Rules 2001 (amended in 2010) for Maharashtra state.

This is submitted for your information please.

Yours faithfully,


(E. Ravendiran, IAS)
Member Secretary, MPCB

Encl.: As above.

Copy Submitted to:

1. Principal Secretary, Environment Department, Govt. of Maharashtra, Mantralaya, Mumbai.
2. Regional Director, CPC Board, Parivesh Bhawan, Opp VMC Ward Office No. 10, Subhanpura, Vadodara – 390 023.

Copy to:

1. Regional Officer (HQ), MPCB

**ANNUAL REPORT ON LEAD ACID BATTERIES HANDLING & MANAGEMENT
AS PER THE BATTERIES (MANAGEMENT & HANDLING) RULES, 2001
AMENDMENT RULE, 2010**

(April 2018 – March 2019)



MAHARASHTRA POLLUTION CONTROL BOARD

Kalpataru Point, 2nd – 4th Floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion
(E), Mumbai-400 022.

1. INTRODUCTION:

Use of lead acid batteries is increasing at a significant rate (~ 8-10% each year) since last decade in India, including Maharashtra. Whether at work or at home, more and more Indians are enjoying the convenience of rechargeable batteries. These are being used for various purposes such as electricity back up at home, offices, shops and industries. However, when thrown away after use, these batteries can contribute to the toxicity levels of landfills in the form of lead and acid used in the battery and incinerator ash, as many of them contain heavy metals. Recycling of batteries not only gives new life to discarded products, but it also helps to prevent the release of hazardous constituents into the environment.

Government of India published Lead Acid Battery (Management & Handling) Rules, 2001 & Amendment Rules, 2010. This rule represents a major step forward in the effort to facilitate the recycling of lead-acid rechargeable batteries.

Acknowledging the steady increase in the use of rechargeable batteries, as well as potential environmental impacts resulting from their improper disposal, Govt. of India made rules to increase collection and recycling of Lead acid batteries. The Lead Acid Battery (Management & Handling) Rules, 2001 & Amendment Rules, 2010 applicable to battery manufacturers, Assembler, Re-Conditioner, Dealers, Bulk Consumer, Auctioneers, Importer and Recyclers.

2. Requirement of the Battery Rule, 2010

The Battery Rule changed the regulatory framework governing Lead acid batteries. It streamlined the framework in an effort to remove the regulatory barriers to increased recycling of rechargeable batteries.

3. Enforcement Authority

Authority for ensuring compliance of rule is the State Pollution Control Board and State Board has to submit annual compliance status report to the Central Pollution Control Board.

4. Need of Awareness of Recycling of Rechargeable Batteries

Public education and participation are keys to the success of any recycling program and are particularly important with materials like batteries that have not been commonly recycled. A public education program can heighten awareness of the recycling program, involve more individuals and businesses, and increase the number of batteries collected. EPA in consultation with Lead Acid Battery manufacturers, rechargeable consumer product manufacturers, and retailers has to establish a public education program on batteries recycling, proper handling and disposal of used Lead Acid batteries. Public education and participation are the keys to success of any recycling program and are particularly important with materials like batteries that have not been commonly recycled.

State Pollution Control Board plays an important role in developing and implementing a successful battery recycling program.

5. Details of data regarding lead acid batteries collected by M.P.C. Board

The information on the purchase, sale, import and recycling of batteries throughout the State of Maharashtra has been collected through Manufacturers, Importers & Bulk Consumers (in the form of half yearly returns) and Sub-Regional offices (SRO) of MPCB. There are difficulties in getting correct information in this regard due to lack of awareness among the stakeholders under Battery Rules. The paucity of manpower at MPCB is also an issue in ensuring compliance of the Battery Rules. However, efforts are being made by MPCB to overcome these difficulties.

5.1 Manufacturers:

Maharashtra state has two major Lead Acid Battery manufacturing companies namely Exide Industries Ltd., - 3 manufacturing units located at Ahmednagar, Taloja and Pimpri Chinchwad and Tata Autocomp GY Batteries Pvt. Ltd. at MIDC, Ranjangaon. As per the data received from 10 manufacturers in the state, 4,234,422 lead acid batteries with weight of 57,108,902 kg were sold in Maharashtra in year 2018-19. Out of this, 1,731,515 number of batteries with 10,391,660 kg weight were sent to Authorised Recyclers.

5.2 Importers:

Apart from the major battery manufacturers, there are 97 number of Lead Acid Battery importers who have obtained registration from Ministry of Environment, Forest & Climate Change (MoEFCC) / Central Pollution Control Board under the Rule 5 of Batteries (Management & Handling) Rules, 2001. The CPCB portal named Batteries (Importers) Registration and Management System (BIRMS) available at <http://cpcbbrms.nic.in/index.aspx>, enlists the details of the lead acid battery importers and half yearly returns filed by the registered battery importers. However, it was observed that many of the importers are not filing half yearly returns regularly to MPCB/ CPCB.

5.3 Bulk consumers:

It is observed that the big bulk consumers of lead acid batteries such as Maharashtra State Road Development Corporation, Maharashtra Electricity Board, Airport Authority of India and Military establishments in and around Mumbai, Municipal Transport (BEST) and Railways are not filing returns regularly, and only big multinational software companies and power companies, whose share may be relatively small, are filing the returns.

5.4 Battery recyclers:

There are 93 Authorized Recyclers / Utilizers /Pre-processors/ Co-processors with Lead acid Battery recycling process, having valid Hazardous Waste Authorisation from MPCB, with capacity of 3,32,871 Tonnes per annum and have submitted Hazardous Waste annual returns for recycling of the lead batteries to MPCB under Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016. As per the returns, recycled/ Utilized/ Co-processed lead quantity by the lead recyclers is 37,361 Tonnes in FY 2018-19.

6. Action taken by M.P.C. Board

MPCB has recently prepared online portals for filing returns for the stakeholders namely Battery Manufacturer, Assembler, Re-conditioner, Dealer, Bulk Consumer and Recycler, in the formats prescribed by Batteries Rules 2001 (amended 2010). Some of the stakeholders have started filing the returns on it. Necessary actions are being taken to raise awareness for the stakeholders for filing the returns online, which can help better data collection. It is hoped that for the next year, the portal will play crucial role in the preparation of annual report for batteries.

Directions have been issued by Maharashtra Pollution Control Board to 77 lead acid recyclers, which have not submitted annual returns or have submitted returns regarding quantity of lead recycled by them in year 2018-19 to the MPCB as zero quantity of lead recycling.

Pursuant to the directions issued by CPCB, MPCB has issued letter to major Lead Acid Battery manufacturer regarding compliance of the Batteries (Management and Handling) Rules, 2001 and amendment thereto.

The information received by MPCB from the Battery Manufacturers, Assemblers, Re-conditioners, Dealers, Bulk Consumers and Recyclers from different regions of Maharashtra is enclosed in Table No. 1.

Table 1: Annual Report of Battery (M & H) Rules, from the period of April 2018 to March 2019

	Number of Manufacturers	Number of Manufacturers submitted returns	Quantity of batteries Sold-Nos	Quantity of batteries Sold-weight (kg)	Quantity of used batteries sent to Authorised Recyclers-Nos	Quantity of used batteries sent to Authorised Recyclers-Weight (Kg)	No of collection centres	No of dealer	No of registered Dealers- at MPCB
A- Manufacturers	10	8	4,234,422	57,108,902	1,731,515	10,391,660	48	1,179	10

	Number of Assemblers	Number of Assemblers submitted returns	Quantity of batteries Assembled and Sold-Nos	Quantity of batteries Assembled and Sold-Weight(Kg)	Quantity of used batteries sent to Authorised Recyclers-Nos	Quantity of used batteries sent to Authorised Recyclers-Weight(Kg)
B- Assemblers	11	6	65,480	64,200	6,413	

	Number of Importer	Number of Importer submitted returns	Quantity of batteries Sold- Nos	Quantity of batteries Sold-Weight(Kg)	Quantity of used batteries sent to Authorised Recyclers-Nos	Quantity of used batteries sent to Authorised Recyclers-Weight(Kg)
C - Importers	97	30	1,314,267	8,355,336	42,881	

	Number of Bulk Consumers	Number of Bulk Consumers submitted returns	Quantity of batteries Sold- Nos	Quantity of batteries Sold- Weight(Kg)	Quantity of used batteries sent to Authorised Recyclers- Nos	Quantity of used batteries sent to Authorised Recyclers- Weight(Kg)
D – Bulk Consumers		240	41,078	724,914	12,696	

	Number of Auctioneers	Number of Auctioneers submitted returns	Quantity of batteries Sold- Nos	Quantity of batteries Sold- Weight(Kg)	Quantity of used batteries sent to Authorised Recyclers- Nos	Quantity of used batteries sent to Authorised Recyclers- Weight(Kg)
E – Auctioneers	7	6	2,090	22,420	22,985	293

Weight of used batteries received from and recycled (MT)												
	Number of Authorised Recyclers	Capacity in MT/Year	Number of recyclers submitted returns	Manufacturer	Assembler	Dealer	Importer	Bulk Consumer	Auctioneer	Self-Imported	Other sources	Total
F-Recyclers	93	332,871	19	11,642	4	15,383	-	11	396	584	9,341	37,361