

MAHARASHTRA POLLUTION CONTROL BOARD

Phone No.: 022-2410437,
24020781

Email: rohq@mpcb.gov.in

Website: www.mpcb.gov.in



Kalpataru Point, Third Floor,
Sion Matunga Scheme Road No. 8,
Sion Circle, Sion (E),
Mumbai – 400022

No. MPCB/RO(HQ)/Battery/B-172

Date: 12/10/2022

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

Subject: Submission of Annual Compliance Status Report for financial year 2021-22 for Batteries (Management and Handling) Amendment Rules, 2010 for the state of Maharashtra.

Sir,

Please find attached herewith the Annual Compliance Report for financial year 2021-22 for Battery Waste Management Rules 2001 (amended in 2010) for Maharashtra state.

This is submitted for your information please.

(Pravin Darade, IAS)
Member Secretary

Encl.: As above.

Copy Submitted to:

- 1) Hon'ble Chairman, MPCB
- 2) Principal Secretary, Environment Department, Govt. of Maharashtra, Mantralaya, Mumbai.
- 3) Regional Director, CPC Board, Baner, Pune

Copy to:

- 1) Regional Officer (HQ), MPCB, Mumbai

ANNUAL REPORT ON LEAD ACID BATTERIES HANDLING & MANAGEMENT

As Per the Batteries (Management & Handling) Rules, 2001 &
Amendment Rule, 2010

(April 2021 to March 2022)



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. Therefore, its scientific disposal is crucial from environmental perspective.

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.

Furthermore, on 22 August 2022, the Ministry of Environment, Forest and Climate Change, Govt. of India has published Battery Waste Management Rules 2022, wherein the important provisions such as well-defined Extended Producer Responsibility (EPR) of battery producers, inclusion of emerging other battery types like Lithium, Cadmium etc, marking of batteries with mercury, cadmium and lead symbols for their maximum content percentage etc. are included.

2. Enforcement Authority for the Batteries (Management and Handling) Rules, 2001

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.

3. 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.

4. 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.

4.1 Manufacturers:

Maharashtra state has two major Lead Acid Battery manufacturing companies namely Exide Industries Ltd. having three manufacturing units located at Ahmednagar, Taloja and Pimpri Chinchwad and Tata Autocomp GY Batteries Pvt. Ltd. at MIDC, Ranjangaon. As per the Consents to Operate granted by MPCB, there are 27 battery manufacturers in the state. Out of these, 9 manufacturers have submitted their half-yearly returns to MPCB. 91,23,465 lead acid batteries with weight of 9,03,34,000 kg was sold in Maharashtra in year 2021-22. Out of this, 26,09,727 number of batteries with 2,62,67,200 kg weight was sent to Authorised Recyclers. This means that recycling through authorised recyclers is around 28 % (in terms of battery numbers) and 29 % (in terms of battery weight).

4.2 Importers:

There are 127 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.

Also, it is noted that there is **technical glitch while accessing the half yearly returns for selected state through MPCB login on the portal. When selection is made, only first page of the list is visible and when attempted to go to the subsequent pages, there is automatic logging out. Because of this reason, MPCB is unable to access the returns filed by battery importers.**

MPCB has received 46 number of online battery importer returns on MPCB portal. They have imported 101234 number of batteries of weight 22,48,000 kg in FY 2021-22.

Furthermore, registration certificate granted to battery importers does not contain contact details (email address and contact number) of the importers, because of which, MPCB is not able to contact them for filing their returns to CPCB and MPCB. It may be helpful if the certificates include the aforesaid details.

4.3 Bulk consumers:

189 bulk consumers have submitted their Annual returns to MPCB and their quantity of sale is around 193848 kg in FY 2021-22. It is observed that the big bulk consumers of lead acid batteries such as Maharashtra State Road Development Corporation, Maharashtra Electricity Board, Airports (except Mumbai) and Military establishments are not filing returns regularly.

4.4 Battery recyclers:

There are 91 Authorized Recyclers / Utilizers / Pre-processors / Co-processors with Lead acid Battery recycling process, having valid Hazardous Waste Authorisation from MPCB, with capacity of 3,50,871 Tonnes per annum. Out of which, 10 recyclers have submitted annual returns for recycling of the lead batteries. As per the returns, weight of used batteries received and recycled by these lead recyclers is 39,33,320 Tonnes in FY 2021-22.

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

MPCB has 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.

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 1st April 2021 to 31st March 2022

	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 dealers	No of registered Dealers at MPCB
A. Manufacturers	27	9	91,23,465	9,03,34,000	26,09,727	2,62,67,200	140	2120	2120

	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	0	0	0	0	0

	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	127	46	101234	2248000	29056	186000

	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	189	189	193848	11291650	13042	4513480

	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	121	120	36440	1425150	44305	1439940

	Number of Authorised Recyclers	Capacity of Recyclers in MT/Year	Number of recyclers submitted returns	Weight of used batteries received from and recycled (MT)								
				Manufacturer	Assembler	Dealer	Importer	Bulk Consumer	Auctioneer	Self-Imported	Other sources	Total
F - Recyclers	94	350871	10	338010	0	1500	15000	155300	2508080	0	915430	3,933,320