MAHARASHTRA POLLUTION CONTROL BOARD

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No. MPCB/RO(HQ)/Battery/B- 262 Date: 18/12/2023

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 2022-23 as per the Sub-Rule 12 (5) of the Battery Waste Management Rules, 2022 for the state of Maharashtra.

Sir,

Please find attached herewith the Annual Compliance Report for financial year 2022-23 as per the Sub-Rule 12 (5) of the Battery Waste Management Rules, 2022 for Maharashtra state.

This is submitted for your information please.

(Dr. Avinash Dhakne, IAS)
Member Secretary

Encl.: As above.

Copy Submitted to:

1) Hon'ble Chairman, MPCB
2) 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 Sub-Rule 12 (5) of the

Battery Waste Management Rules, 2022

(April 2022 to March 2023)

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, Nickel 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.

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 41 Battery manufacturers in the state. Out of these, 13 manufacturers have submitted their returns to MPCB. 95,79,638 lead acid batteries with weight of 9,48,50,700 kg was sold in Maharashtra in year 2022-23. Out of this, 26,74,970 number of batteries with 2,69,23,880 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 147 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 53 number of online battery importer returns on MPCB portal. They have imported 106295 number of batteries of weight 23,60,400 kg in FY 2022-23.

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:

1525 bulk consumers have submitted their Annual returns to MPCB and their quantity of purchase is around 4870536 numbers and by weight is 116653460 kg in FY 2022-23. 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 98 Authorized Recyclers / Utilizers / Pre-processors / Co-processors with Lead acid Battery recycling process, having valid Hazardous Waste Authorisation from MPCB, with capacity of 3,65,271 Tonnes per annum. Out of which, 19 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 2737399.00 Tonnes in FY 2022-23.

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 2022 to 31st March 2023

	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	41	13	95,79,638	9,48,50,700	26,74,970	2,69,23,880	152	2564	2564

	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	15	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	147	53	106295	2360400	29782.4	190650

	Number of Bulk Consumers	Number of Bulk Consumers submitted returns	Quantity of batteries Purchased- Nos	Weight of batteries Purchased (Kg)	Quantity of used batteries sent to Authorised Recyclers- Nos	Quantity of used batteries sent to Authorised Recyclers- Weight (Kg)
D – Bulk Consumers	1525	1525	4870536	116653460	128586	80143310

	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	130	125	34229	33007	32104	1274520

	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	98	365271	19	1981191	3000	18211	302900	21244	251808	900	158145	2737399.0