

# Regional Interaction Meets on EPR under Battery Waste Management



Battery Waste Management, WM – I Division  
Central Pollution Control Board  
(MoEF&CC)  
Delhi

# Battery Waste Management Rules, 2022

- **Effective Date:** 22<sup>nd</sup> August, 2022
- **Objective:** Promote recycling; Create Circular Economy of battery material
- **Applicability:** Covers all battery types and involves manufacturers, importers, recyclers, and refurbishers.
- **Extended Producer Responsibility (EPR):** collection and recycling of used batteries, meeting prescribed EPR targets.
- **Enforcement and Penalties:** Action on violations of Rules; Imposition of EC
- **Centralized Portal:** Development of Online EPR Portal

# Status of Online Portals for Implementation of EPR

<b>Waste Management Rules</b>	<b>Rules Notified on</b>	<b>Portal Development Status</b>
Battery Waste	22.08.2022	<ul style="list-style-type: none"><li>• Producers Registration: 17.03.2023</li><li>• Recyclers Registration: 11.08.2023</li><li>• Interim Arrangement for EPR credit generation and trading: 28.08.2023</li></ul>

# Features of Online EPR Portal for Recyclers

- e-KYC of Recyclers.
- Information on Waste Battery – Type, kind, key Battery Material, Procurement, Recycling
- Upload of Documents – GST, PAN, CIN, Consent, Authorisation, Geo – Tagged images, Video of Recycling Plant.
- Payment of Application Fees.
- Generation and Trading of EPR Certificates / Credits.

# Status of Applications on EPR Portal

Type of Waste	Producers		Recyclers	
	Total Applications	Registration Granted	Total Applications	Registration Granted
Battery Waste	2014	1436	<b>50</b>	<b>05</b>

**Expected Producers – Around 2100; Expected Recyclers – Around 650**

# Mechanism for EPR Certificate Generation

## □ Generation of EPR certificates by Recyclers

### • Types of Recyclers:

- (i) **R1:** Lead Acid Battery Recycler
- (ii) **R2:** Only Battery Dismantling and Physical separation (Processing till Black Mass Generation) of all types of battery except Lead acid battery
- (iii) **R3:** Refiners – Only Black Mass Processor (Processing till metals are obtained in compound form) of all types of battery except Lead acid battery
- (iv) **R4:** Battery Dismantling, Physical Separation and Refining (Black Mass Processing) of all types of battery except Lead acid battery

### • Key Battery Metals

S. No.	Kind of Battery	Key Metals
1.	Lead Acid	Lead (Pb)
2.	Lithium Ion	Lithium (Li), Nickel (Ni), Manganese (Mn), Cobalt (Co), Aluminium (Al), Iron (Fe), and Copper (Cu)
3.	Zinc - based	Zinc (Zn), Manganese (Mn), and Iron (Fe)
4.	Nickel – Cadmium (Ni-Cd)	Nickel (Ni), Cadmium (Cd), and Iron (Fe)
5.	Others – Nickel Metal Hydride (NiMH)	Nickel (Ni), Iron (Fe)

Extended Producer Responsibility certificates (in kg) = Weight of the identified key battery metal(s) produced and sold from recycling of Waste Battery (in kg)

# Mechanism for EPR Certificate Generation

## □ EPR Obligations for Producers:

- EPR obligations of Producers are met when they procure EPR Certificates (in kg) for all key battery metals from recyclers.
- Certificates procured from recyclers will be reflected in the Annual Returns submitted by the Producer through the Online EPR portal.
- **EPR Obligations (in kg)** = Percentage of metal present in the battery x Target Quantity (in kg) (as defined in rules) x Conversion Factor (CF).

S. No.	Battery Metals	CF
1.	Lithium	0.75
2.	Nickel (Ni), Manganese (Mn), Cobalt (Co), Aluminium (Al), Iron (Fe), Copper (Cu), Zinc (Zn), Cadmium (Cd), Lead (Pb)	0.90

# Issues

- Registration by the Recyclers
- Processing of Applications by SPCBs/PCCs
- Generation of EPR Credits by the Recyclers
- Submission of Annual Returns for FY 2022 – 23 by the Producers and Recyclers



**Thank You**