

RECYCLING OF ULABs IN INDIA ***- Current Environmental Regulations***



IBMA Webinar, 14 October 2022



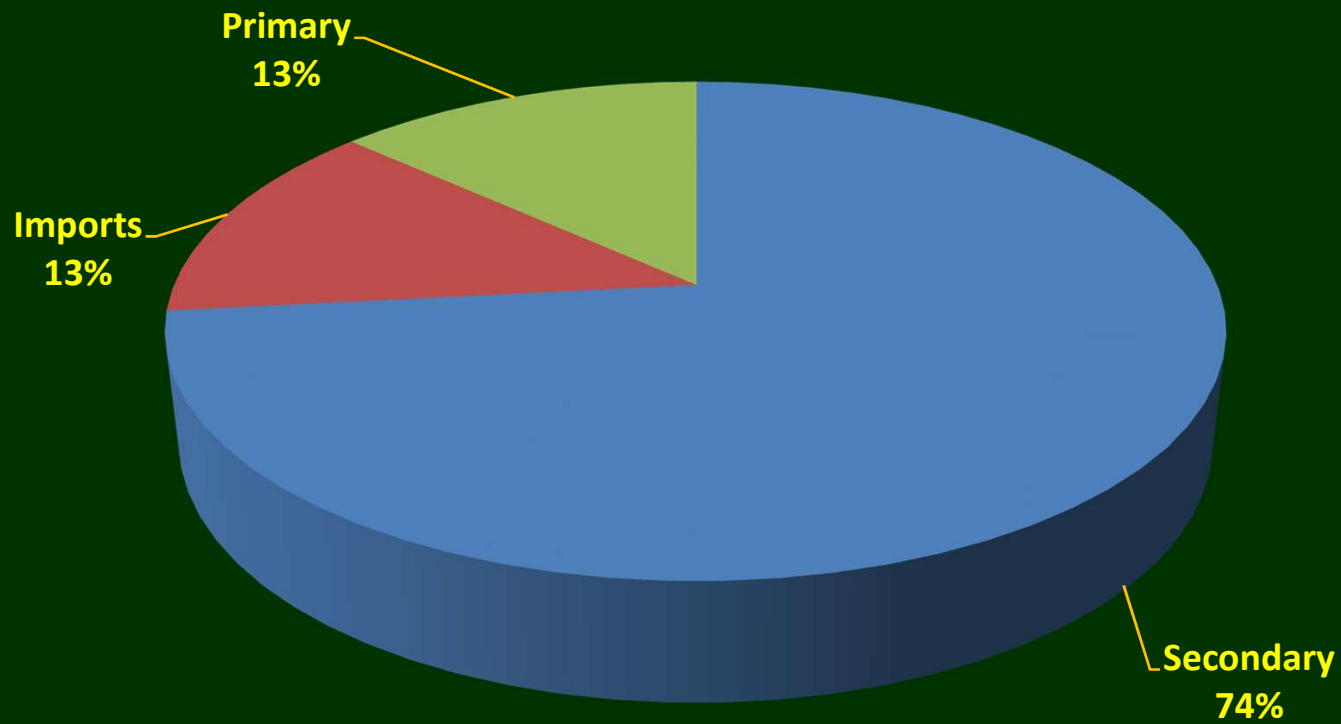
ILZDA

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ILZDA

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INDIA'S SECONDARY LEAD SHARE



SECONDARY LEAD INDUSTRY

(million tonnes)

- | | |
|---|----------------------------------|
| <i>1. No. of Authorized Units</i> | <i>: 625</i> |
| <i>2. Authorized Capacity (2021)</i> | <i>: 3.50</i> |
| <i>3. Secondary Production</i> | <i>: 1.10 (Estimated)</i> |
| <i> Lead Imports</i> | <i>: 0.20</i> |
| <i> Primary Lead</i> | <i>: 0.20</i> |
| <i>4. Total Lead Consumption</i> | <i>: 1.50 (Estimated)</i> |

PRIMARY LEAD PRODUCTION - INDIA

(Producer: Hindustan Zinc Limited)

**India's
Financial Year: 1 April to 31 March**

YEAR	PRODUCTION (tonnes)
2015-16	144653
2016-17	151020
2017-18	174368
2018-19	198000
2019-20	181000
2020-21	214000
2021-22	191000



(Source: HZL)

Battery (Management & Handling) Rules 2001

SALIENT FEATURES

All Stakeholders

(Manufacture, Process, Sale, Purchase, Import, Use)

- Manufacturer*
- Dealer*
- Reconditioner*
- Assembler*
- Importer*
- Recycler*
- Auctioneer*
- Consumer (Individual & Bulk)*

**One-to-one
Collection**

COLLECTION TARGETS (BMHR)

- 1 Year (2002) 50%***
- 11 Year (2003) 75%***
- After 11 year 90%***

BMHR AMENDMENTS (2010)

- ***Battery Dealers to Register with SPCBs/SPCCs and File Regular Returns***
- ***Regn Scheme & BMHR Monitoring shifted to SPCBs/SPCCs***
- ***Assembler and Reconditioner Dropped***
- ***Bulk Consumer Defined***

MoEF's Initiatives

- *Public notification, regulating non ferrous scrap auctions*
- *Communications to bulk consumers*
- *Registration of eco-friendly recyclers*
- *Media advertisement*

TOWARDS GREEN RECYCLING

1. Registration Scheme:

- *Valid Consents from Regulatory Bodies*
- *Clean Operations with Air Pollution Control Systems*
- *Sound Occupational Health Care Systems*
- *Safe Storage, Transportation etc.,*

2. Import of Used Lead Batteries:

- *Only authorized units*
- *Mechanized Breaking System*
- *Disposal of acid, plastics etc.,
for safe treatment as per rules*
- *Prior Informed Consent (PIC)*

BATTERY WASTE MANAGEMENT RULES - 2022

❖ ***Superceded BMHR, 25 Aug 2022***

❖ **Waste Battery:**

- ***Used and/or EOL batteries***
- ***Pre-consumer, off spec batteries***
- ***Expired Batteries***
- ***Discarded batteries***

❖ ***Applies to:***

Every producer, dealer, consumer & entities involved in collection, segregation, transport & recycling

❖ ***Exempts:***

Batteries used in defence & space equipments

ROLE OF PRODUCER

- ***Extended Producer Responsibility (EPR)***
- ***All batteries to be recycled/refurbished
(no land filling, incineration)***
- ***To meet collection/recycling/refurbishing targets***
- ***Submit EPR Plan to CPCB (Form 1c), FY 2022-23***
- ***Online registration (Form 1a)***
- ***Certificate of EPR Registration (Form 1b)***
- ***Periodic renewal of Regn***
- ***Deposit Refund/Buyback Scheme***
- ***Annual Returns (Form3), 30 June, next year***
- ***Labelling & Warnings***

ROLE OF CONSUMER

- ***To discard waste batteries separately***
- ***To collection/refurbishment facility***
- ***To obtain GST invoice***

ROLE OF PUBLIC BODIES

- ***To hand over waste batteries to recycling/refurbishment facility only***
- ***To set up own recycling /refurbishment opns***

ROLE OF COLLECTORS/SEGREGATORS

- ***To hand over to Regd recycler/refurbisher***
- ***Facilities, as per CPCB guidelines***
- ***To operate as per CPCB guidelines***

ROLE OF REFURBISHER

- ***To register with CPCB/SPCBs centralized portal (Form 1b)***
- ***Application to SPCBs for one time registration (Form 2)***
- ***Facilities as per CPCB guidelines***
- ***Manage HWs as per HWs Mgmt Rules, 2016 & Solid Waste Mgmt Rules 2016***
- ***To remove waste batteries from old appliances***
- ***Qly returns (Form 4) end of the month to SPCBs***
- ***Details on CPCB portal & own websites***

ROLE OF RECYCLER

- Register with SPCBs online centralized portal (Form 2)
- One time registration
- As per CPCB guidelines
- Manage HWs & other wastes as per rules
- Qly returns
- For violations, units debarred

- Recovery Targets

<u>BATTERIES</u>	<u>2024-25</u>	<u>2025-26</u>	<u>2026-27 & onwards</u>
Automotive	55	60	60
Industrial	55	60	60
Electric Vehicles	70	80	90
Portable	70	80	90

ROLE OF CPCB

- ***Charge fee for Regn & share with SPCBs***
- ***Registration in two weeks for 5 years***
- ***EPR details, sharing with SPCBs***
- ***Can suspend or cancel Regn***
- ***Auditing, Inspection & Verification***
- ***Develop mechanism for exchange of EPR Certificates online***
- ***Implementation Committee***

EPR CERTIFICATES

- ***CPCB will issue certificates online portal***
- ***Formula for EPR Certificate***
- ***Not to exceed installed capacity***
- ***Shall include GST details***
- ***Certificates can be sold to producers
in exchange of waste batteries***
- ***Environment compensation to be levied***
- ***Corpus to be created***

TARGETS FOR AUTOMOBILE BATTERIES

YEAR	COLLECTION TARGET (MIN)
2022-23	30%
2023-24	50%
2024-25	70%
2025-26	90%
2026-27	90%

100%
by end of 5 years

TARGETS FOR INDUSTRIAL BATTERIES

YEAR	COLLECTION TARGET (MIN)
2022-23	40%
2023-24	50%
2024-25	60%
2025-26	70%
2026-27	70%
2027-28	70%
2028-29	70%

100%
by end of 7 years

TARGETS FOR ELECTRIC VEHICLES (3W /2 W)

YEAR	COLLECTION TARGET (MIN)
2024-25	70%
2025-26	80%
2026-27	80%
2027-28	80%
2028-29	80%
2029-30	80%
2030-31	80%
2031-32	80%

100%
by end of 7 years

TARGETS FOR ELECTRIC VEHICLES (4W)

YEAR	COLLECTION TARGET (MIN)
2029-30	70%
2030-31	80%
2031-32	80%
2032-33	80%
2033-34	80%
2034-35	80%
2035-36	80%
2036-37	80%

100%
by end of 7 years

CONCLUSIONS

- ***All Responsibility Fixed on Producers***
- ***Dealers, missing?***
- ***Bulk Consumers?***
- ***Transactions of EPR Certificates?***
- ***Online Regn?***
- ***Onetime Regn?***
- ***Loopholes, to be rectified***



ILZDA Welcomes You To:



**INTERNATIONAL CONFERENCE ON LEAD & LEAD BATTERIES
- ENERGY STORAGE, E-MOBILITY & ENVIRONMENT
5 & 6 December 2022, Hotel Ibis, Aerocity, New Delhi**

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