

# **BATTERY WASTE MGMT RULES 2022**

## **- EPR & OBLIGATIONS**



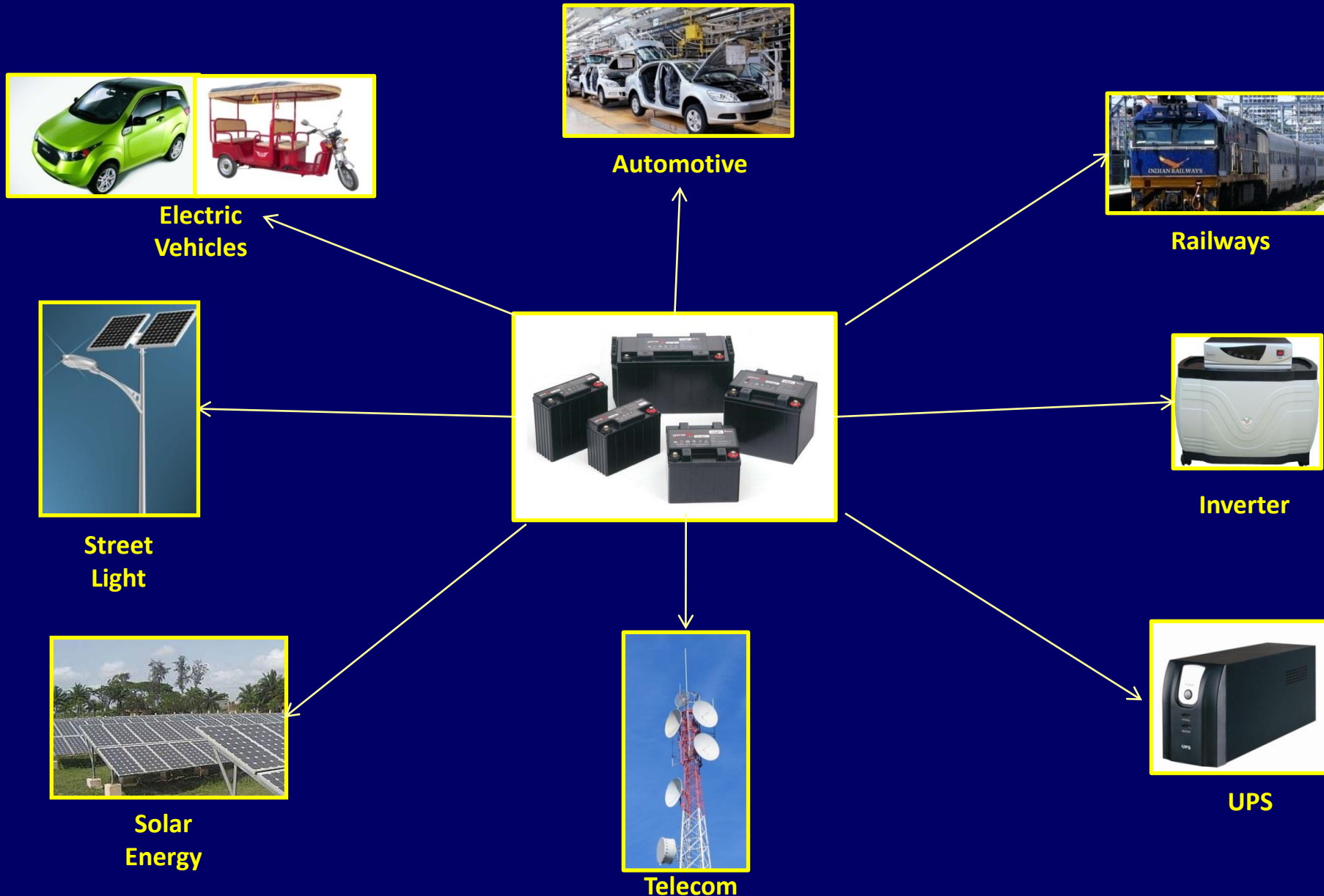
**Pb2023**  
**21-23 June 2023,**  
**Athens, Greece**

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***India Lead Zinc Development Association &***  
***Past President, The Indian Institute of Metals***

# ***Battery Waste Management Rules 2022*** ***(BWMR – 2022)***

- ***Introduced on 25 Aug 2022***  
***to cover all battery systems/Chemistries***
- ***Superceding***  
***“Battery (Management & Handling) Rules 2001***  
***known as BMHR 2001***  
***applied for Lead batteries only***
- ***Implemented for 21 years with***  
***amendments in between***

# Lead Battery – Touches Our Daily Lives



# INDIA'S ELECTRIC MOBILITY MISSION (FAME\*)



Faster Adoption & Manufacture of Electricvehicles

# **BATTERY WASTE MANAGEMENT RULES - 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***

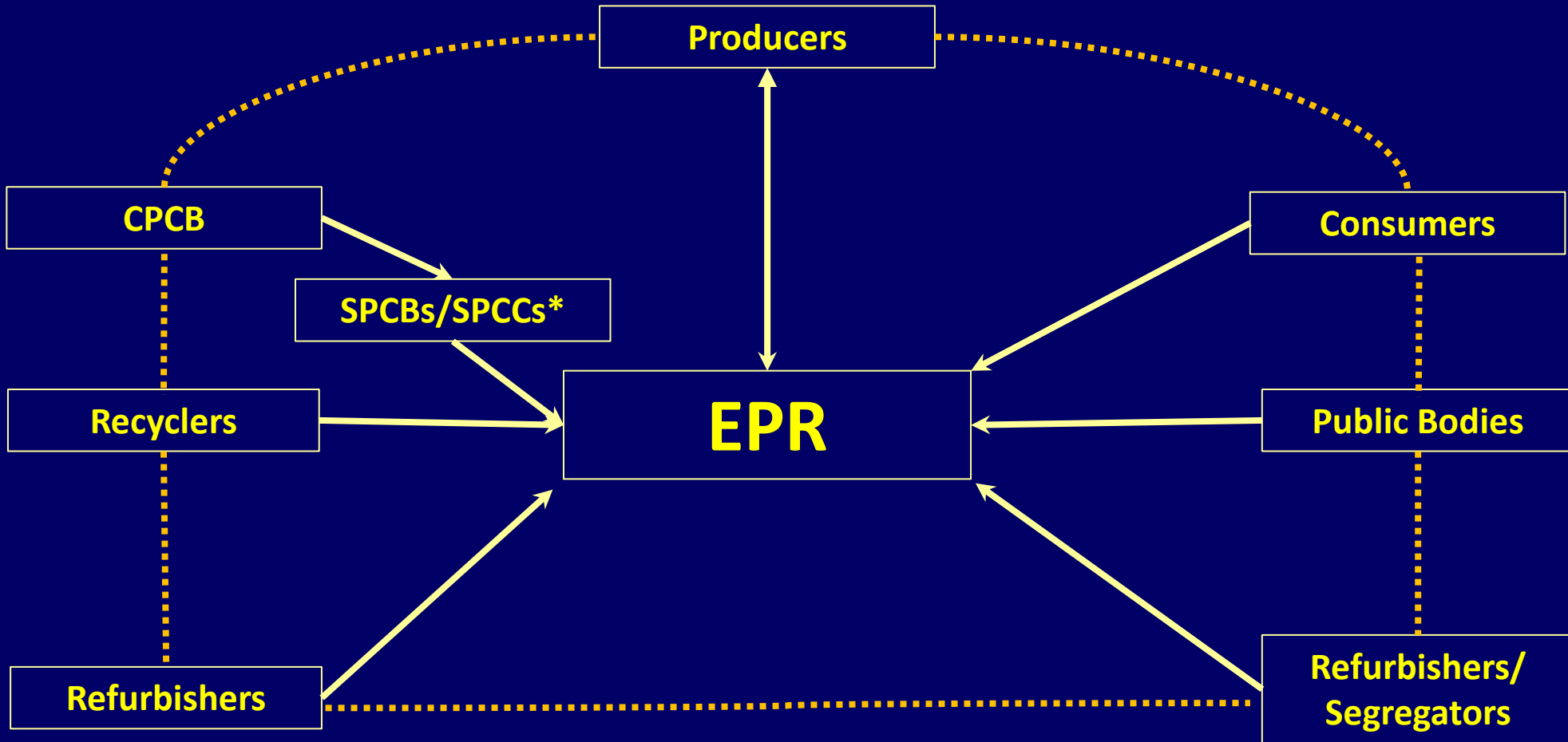
## **❖ *Exempts:***

***Batteries used in defence & space equipments***



# BWMMR-2022

## EPR & Multi Stakeholder Responsibilities



\*CPCB – Central Pollution Control Boards

\* SPCBs – State Pollution Control Boards

# ***ROLE OF PRODUCERS***

- ***Extended Producer Responsibility (EPR)***
- ***All batteries to be recycled/refurbished  
(no land filling, no incineration)***
- ***To meet collection/recycling/refurbishing targets***
- ***Submit EPR Plan to CPCB (Form 1c)***
- ***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 CONSUMERS***

- ***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 REFURBISHERS***

- ***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 HW Mgmt Rules, 2016  
& Solid Waste Mgmt Rules 2016***
- ***To remove waste batteries from old appliances***
- ***Qly returns (Form 4) to SPCBs***
- ***Details on CPCB portal & own websites***

# ROLE OF RECYCLERS

- **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 will be debarred**

- **Recovery Targets**

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

# ***ROLE OF CPCB***

- ***Portal to be created***
- ***Charge fee for Regn & share with SPCBs***
- ***Registration in two weeks for 5 years***
- ***EPR Plan, 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***
- ***Certificates can be sold to producers  
in exchange of waste batteries***
- ***Formula for EPR Certificate***
- ***Not to exceed installed capacity***
- ***Shall include GST details***
- ***Environment compensation to be levied***
- ***Corpus to be created***

# TARGETS FOR AUTOMOBILE BATTERIES

YEAR	COLLECTION TARGET (MIN)	100% by end of 5 years
2022-23	30%	
2023-24	50%	
2024-25	70%	
2025-26	90%	
2026-27	90%	

# TARGETS FOR INDUSTRIAL BATTERIES

YEAR	COLLECTION TARGET (MIN)	100% by end of 7 years
2022-23	40%	
2023-24	50%	
2024-25	60%	
2025-26	70%	
2026-27	70%	
2027-28	70%	
2028-29	70%	



# TARGETS FOR ELECTRIC VEHICLES (3W /2 W)

YEAR	COLLECTION TARGET (MIN)	
2024-25	70%	100% by end of 7 years
2025-26	80%	
2026-27	80%	
2027-28	80%	
2028-29	80%	
2029-30	80%	
2030-31	80%	
2031-32	80%	

# 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?*
- *Transactions of EPR Certificates?*
- *Online Regn?*
- *One time Regn?*
- *Loopholes, to be finetuned periodically*



***THANK YOU***

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