

**Status Review Report on Implementation of
Batteries (Management and Handling) Rules, 2001
(as amended thereof)**

2020-21

**CENTRAL POLLUTION CONTROL BOARD
Ministry of Environment, Forest and Climate Change, Govt. of India
Parivesh Bhawan, East Arjun Nagar
Delhi-110032**

1.0 Background

The Batteries Management and Handling Rules were notified in the year, 2001 with the primary objective of channelizing the used lead acid batteries for environmentally sound recycling. The Rules mandates State Pollution Control Boards to seek data on sale, import, generation, collection and recycling of used batteries from manufacture, assembler, re-conditioners, importer, auctioneers and batteries recyclers' for keeping track of used batteries.

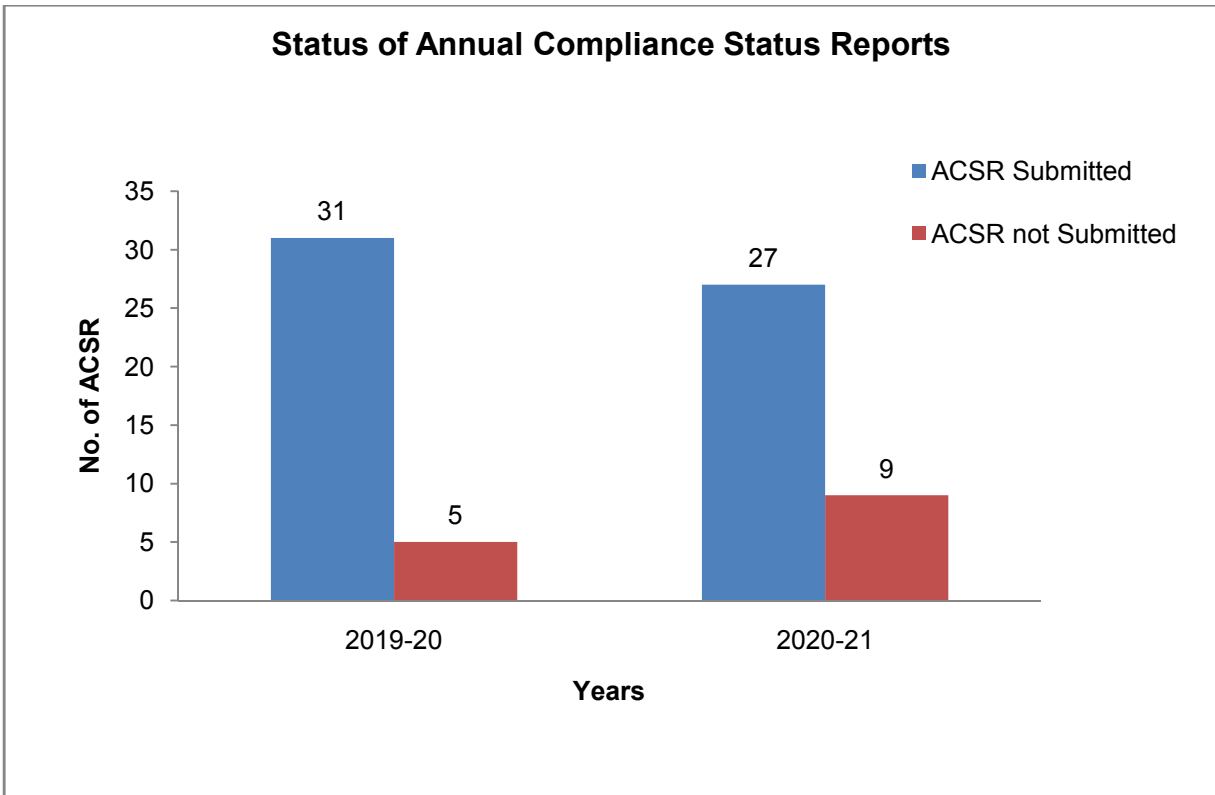
2.0 Annual Compliance Status Report (ACSR):

As per provisions under Rule 12 of Battery Rules, SPCBs/PCCs were given the responsibility of submitting Annual Compliance Status Reports (ACSR) to Central Pollution Control Board by 30th April every year.

CPCB conducted meeting with SPCBs/PCCs on 17th February, 2022 to ensure effective implementation of Batteries Rules, 2001. During the said meeting following points were discussed:

- SPCBs/PCCS who have not submitted ACSR shall submit within one week.
- SPCBs/PCCs who had already submitted annual report may like to update their reports and re-submit to CPCB within one week;
- Develop a mechanism to ensure registration of all Dealers in the State/UT;
- Ensure to submit data related to new or used batteries be provided both in terms of number and weight (MT/KG) in ACSR.
- Issue Notices/directions against defaulting stakeholders for compliance Batteries (M&H) Rules 2001, and ensure follow-up action against non-complying stakeholders.; and
- Identify and close-down illegal battery waste recyclers, all types of battery melting/smelting in workshops including illegal batteries manufacturers.

CPCB has received annual compliance status reports form 27 SPCBs/PCCs during the year 2020-21. 09 SPCBs/PCCs namely Andhra Pradesh, A&N Islands, Arunachal Pradesh, Assam, Jharkhand, Lakshweep, Manipur, Tripura and Uttar Pradesh have not submitted annual report. Complied annual information indicates that 12,51,063 MTA of batteries have been sold by manufacturers and importers out of which 4,20,366 MTA of batteries were sent to registered recyclers during the year 2020-21. State-wise detail of annual compliance status for the year 2020-2021 is given in **Annexure-1**.

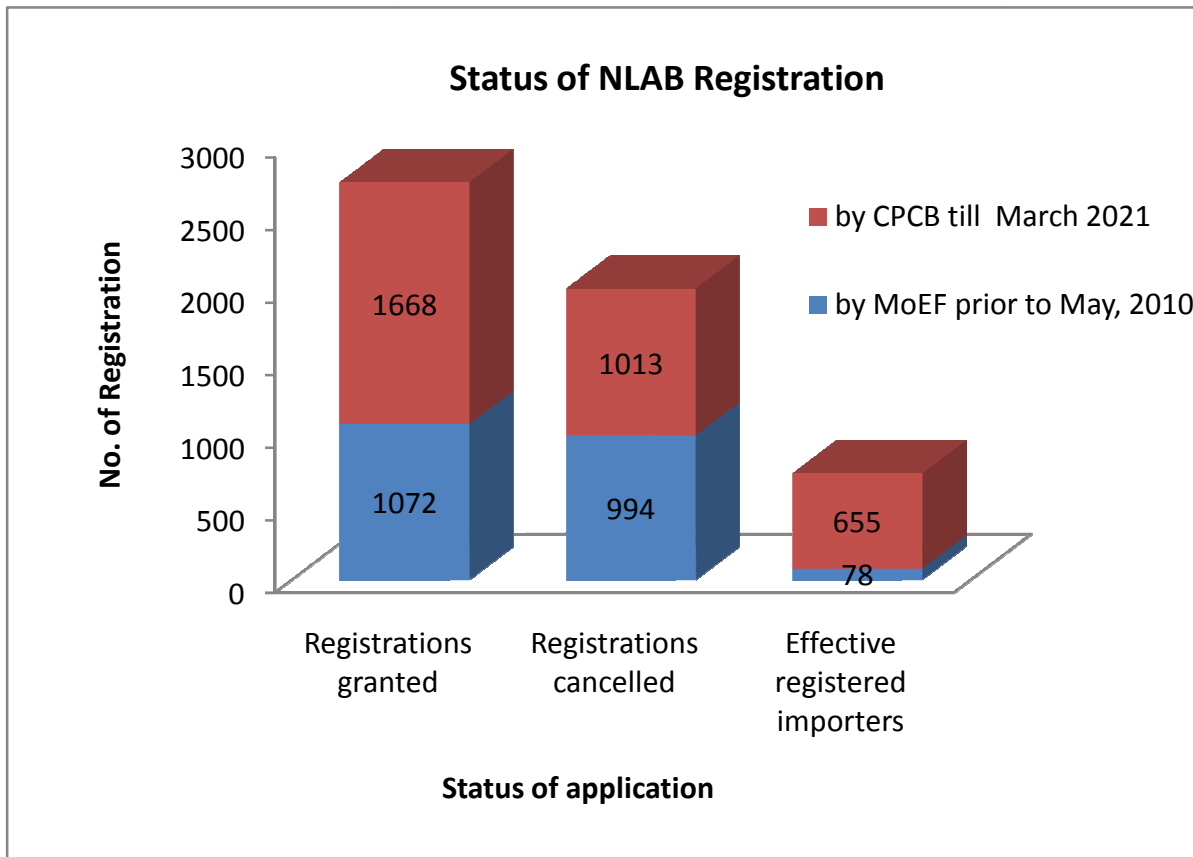


3.0 Registered Importers of New Lead Acid Batteries in the Country:

As per the provision under Rule 5 Batteries (M&H) Rules, 2001 and as amended in 4th May 2010, the responsibility of granting registration to importers of the new lead acid batteries has been transferred to Central Pollution Control Board (CPCB) from Ministry of Environment, Forest and Climate Change.

2740 importers had been registered till March, 2021 for import of new lead acid batteries. Registration of importer of New Lead Acid Batteries is being done through CPCB Batteries (Importer) Registration and Management System (BRMS) portal. The status of application of importer of new lead acid batteries and registration granted to importers are available on BRMS portal. CPCB has cancelled registrations of 2007 importers for failing to comply with conditions of registration. There are 733 valid registered importers till March, 2021 details given at **Annexure -2** and **Annexure -3**;

Due to non-compliance, CPCB has canceled the registration of 77 importers of new lead acid batteries from 12 states in the financial year 2020-21.



4.0 Authorised/Registered Batteries Recyclers

Used lead acid batteries are required to be collected and sent to registered recycler. As per rules, Importer of New Lead Acid Batteries are required to collect 90% of batteries placed in market and sent to registered recycler for recycling.

State Pollution Control Boards/Pollution Control Committees are the designated authorities for grant and renewal of registration of recyclers having environmentally sound recycling facilities for recycling of lead acid batteries/plates/other lead scrap/ashes and residue under hazardous waste management rules notified under E(P) Act, 1986 . The said recyclers also come under the preview of channelization of used lead batteries under the provision of batteries rules 2001.

These recyclers are granted authorization as per the technical guidelines for environmentally sound recycling of lead bearing wastes published by CPCB. SPCBs shall ensure compliance to these guidelines prior to issuance of authorization to these lead acid battery recyclers.

As per annual reports information received from SPCBs/PCCs, there are 672 registered used lead acid battery recycling units in the country and total established recycling capacity is 35,30,842 MTA. State-wise list of recyclers and their installed capacities are given at **Annexure-4**

5.0 Observation:

The information provided by SPCBs/PCCs is in-adequate with respect to number of dealers, manufacturers, assemblers and re-conditioners. SPCBs/PCCs did not have complete list of stakeholders involved in implementation of Batteries Rule, which reflects poor status of implementation of Batteries Rules in almost all the States/UTs. Therefore, there is a need to update the inventory by SPCBs/PCCs. The stakeholders (manufacturers, importers, re-conditioners, assemblers, bulk-consumers and auctioneers) should submit the timely returns to SPCBs. Data provided in **Annexure-1** also does not reflect the indicative market of sale of batteries in the country.

6.0 Implementation issues:

For Effective implementation of Batteries Rules, 2001, the following identified issues may be addressed;

- I. Ensure compliance of stakeholders, namely manufacturers/importers/re-conditioner/ assemblers in submitting proper annual reports;
- II. Ensure registration of all Batteries Dealers (On-line/Off-line) by SPCBs/PCCs.;
- III. Ensure to submit data related to new or used batteries be provided both in terms of number and weight (MT/KG) in ACSR.
- IV. Ensure that manufacturer and importer sell new lead acid batteries only through registered dealers;
- V. Lack of involvement of Manufacturers in creating collection points, providing awareness and in channelization of used batteries as required under Batteries Rules, 2001. The extended producer's responsibility has not been outlined in the Rules clearly;
- VI. Lack of action against defaulting stakeholder; and
- VII. Lack of action against illegal or informal backyard recyclers of lead acid batteries operating in the State.
- VIII. Manufacturers being important stakeholders are not regulated directly through the process of authorization by SPCBs;
- IX. Prioritization on implementation of Batteries Rules, 2001 by SPCBs/PCCs.;
- X. Proper Inventory of stakeholders such as Manufacture, Importer, Dealer, Recycler etc. by SPCBs;

7.0 Recommended:

- i. State Boards should identify the illegal Units involved in unscientific recycling of lead acid batteries.
- ii. Strict action should be taken by State Boards against the Units involved in illegal recycling of batteries recycling.
- iii. State should identify the manufacturers at small scale involved in manufacturing of lead acid batteries and ensure compliance to the provisions of Batteries (M&H) Rules, 2001 by such manufacturers.
- iv. State Boards/Committees may issue public notices in newspapers, radio, Television and other media such as hand-outs, brochures, newsletters, etc.
- v. State Boards should complete the inventory on numbers of various stakeholders such as batteries manufacturers, importers, re-conditioner, assemblers, bulk-consumers, recyclers etc.
- vi. Manufacturers should also be directed for the following:
 - a. Set-up collection centres and file annual reports periodically and accurately;
 - b. to conduct periodic mass awareness programmes throughout the country including regional level/ district level jointly by SPCBs, PCCs and all stake holders;
 - c. Use media such TV, social media etc.

SPCBs/PCCs submitted Annual Compliance Status Reports (ACSR) for the year 2020-2021

2020-21	S. No.	Name of State PCB/PCC	Importer *			Manufacturer			Dealer			Recycler			Auctioneer			Re-conditioner			Assembler			Bulk-consumer		
			No of	Return Submit	Sold Weight (Kg)	No of	Return Submit	Sold Weight (Kg)	No of	Return Submit	Sold Weight (Kg)	No of	Return Submit	Wt/No. of used Batter	No of	Return Submit	Sold Weight (Kg)	No of	Return Submit	Sold Weight (Kg)	No of	Return Submit	Sold Weight (Kg)	No of	Return Submit	Sold Weight (Kg)
N	1	A&N Islands	0	NA	NA	Not Submitted																				
N	2	Andhra Pradesh	19	8	5798421	Not Submitted																				
N	3	Arunachal Pradesh	0	NA	NA	Not Submitted																				
N	4	Assam	0	NA	NA	Not Submitted																				
Y	5	Bihar	2	NS	NA	3	3	13267260	NP	NP	NP	4	4	NP	1	1	599270	Nil	NA	NA	Nil	NA	NA	23	23	1002329
Y	6	Chandigarh	1	1	239220	2	2	NP	55	55	331281 Pcs	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	8	8	338 Pcs
Y	7	Chhattisgarh	1	NS	NA	3	3	220210	119	44	36364580	7	7	4317238	47	37	1455570	Nil	NA	NA	4	3	1655600	88	80	2287950
Y	8	Dadra & Nagar Haveli	1	NS	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	4	4	8395
Y	9	Daman & Diu	1	NS	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA
Y	10	Delhi	159	39	9419242	Nil	NA	NA	2	2	462432	Nil	NA	NA	18	18	621186	Nil	NA	NA	Nil	NA	NA	66	66	401610
Y	11	Goa	1	NA	NA	1	1	Nil	53	53	46814 Pcs	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	1	1	Nil	50	50	688
Y	12	Gujarat	51	14	361396	24	11	994657	NP	NA	NA	28	23	5139615	31	25	878677	Nil	NA	NA	0	NA	NA	132	104	582960
Y	13	Haryana	47	12	75592224	6	6	4965205.23	NP	NP	NP	47	43	23135957	1	1	1165	Nil	NA	NA	17	1	1165	33	26	666236
Y	14	Himachal Pradesh	5	3	12323980	15	15	282011944	NP	NP	NP	14	14	10833400	2	2	19190	Nil	NA	NA	6	6	95499170	40	40	330511.4
Y	15	J&K	0	NA	NA	11	11	442900	174	88	NP	19	19	127331400	NP	NA	NA	Nil	NA	NA	8	8	114813	NP	NA	NA
N	16	Jharkhand	2	NS	NA	Not Submitted																				
Y	17	Karnataka	77	39	3552510	26	25	8020.58	NP	NP	NP	34	2	63846592	9	7	206.53	Nil	NA	NA	3	1	32.07	527	398	NA
Y	18	Kerala	15	5	8153670	15	13	2015984	762	449	633781	3	1	691000	1	1	471600	Nil	NA	NA	1	1	346890	46	38	424520

N	19	Lakshadweep	0	NA	NA	Not Submitted																				
Y	20	Madhya Pradesh	16	10	400460	8	8	4440110	NP	NA	NA	53	53	28496970	8	8	4600	NP	NA	NA	3	3	14609	94	94	1899107
Y	21	Maharashtra	144	36	153404944	18	6	15126848	NP	NA	NA	87	38	41381000	59	59	359897	NP	NA	NA	10	2	28000	49	49	1202585
N	22	Manipur	0	NA	NA	Not Submitted																				
Y	23	Meghalaya	0	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	1	1	Nil	9	9	7362
Y	24	Mizoram	0	NA	NA	Nil	NA	NA	14	14	200353.2	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA
Y	25	Nagaland	0	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA
Y	26	Odisha	2	NS	NA	0	NA	NA	NP	NA	NP	Nil	NA	NA	1	1	5021	NP	NA	NA	2	2	0	116	116	1907232
Y	27	Pondicherry	5	1	109840	1	1	240000	4	4	237750	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	10	10	4780
Y	28	Punjab	5	3	0	14	2	533866	NP	NP	Nil	52	10	3991758	12	Nil	NA	Nil	NA	NA	11	1	187050	115	6	15184.59
Y	29	Rajasthan	7	2	28600	3	3	10338600	514	NP	NA	46	10	14616140	30	30	1560270	Nil	NA	NA	Nil	NA	NA	65	64	4083528
Y	30	Sikkim	0	NA	NA	Nil	NA	NA	7	NP	NP	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	Nil	NA	NA	8	8	20002
Y	31	Tamil Nadu	58	20	21170326	22	21	33714130	NP	NP	NP	27	14	56540863	4	4	546078	NP	NA	NA	8	7	614114	64	64	2684909.4
Y	32	Telangana	12	1	22302925	5	5	3185709	15	NP	NP	19	19	16448100	10	10	843657	Nil	NA	NA	Nil	NA	NA	289	289	2557755.4
N	33	Tripura	0	NA	NA	Not Submitted																				
N	34	Uttar Pradesh	13	3	0	Not Submitted																				
Y	35	Uttrakhand	1	1	383	6	6	19651170	NP	NP	NP	5	5	13491890	1	1	400	Nil	NA	NA	1	1	12318	38	38	599211280
Y	36	West Bengal	88	20	527261056	7	5	19788186	NP	NA	NA	58	12	10104191	31	15	190558.9	NP	NA	NA	Nil	NA	NA	120	98	1326116.36
27			733	218	840119197	190	147	410944799.8	1719	709	37898896	503	274	420366114	266	220	7557346	0	0	0	76	38	98473761.1	1994	1682	620625041

Note: All values are in Kilogram per Annum (Kg/A), otherwise as mentioned.

NP: Data Not Provided

NA: Not Applicable

* As per CPCB record

State wise status of Importer Registration Granted, Cancelled/Suspension/In-active

S. NO.	Name of State PCB/PCC	HSMD & CPCB				
		Application Received	In-progress	Registration Processed	Cancelled/Suspended/In-active/Reject	Active
1	Andaman and Nicobar	0	0	0	0	0
2	Andhra Pradesh	115	7	108	89	19
3	Arunachal Pradesh	0	0	0	0	0
4	Assam	0	0	0	0	0
5	Bihar	6	1	5	3	2
6	Chandigarh	10	0	10	9	1
7	Chhattishgarh	10	0	10	9	1
8	Dadra & Nagar Haveli	3	0	3	2	1
9	Daman & Diu	1	0	1	0	1
10	Delhi	661	17	644	485	159
11	Goa	3	0	3	2	1
12	Gujarat	139	4	135	84	51
13	Haryana	151	3	148	101	47
14	Himachal Pradesh	19	1	18	13	5
15	Jammu & Kashmir	4	0	4	4	0
16	Jharkhand	5	0	5	3	2
17	Karnataka	307	16	291	214	77
18	Kerala	40	2	38	23	15
19	Lakshadweep	0	0	0	0	0
20	Madhya Pradesh	48	2	46	30	16
21	Maharashtra	571	26	545	401	144
22	Manipur	0	0	0	0	0
23	Meghalaya	0	0	0	0	0
24	Mizoram	0	0	0	0	0
25	Nagaland	0	0	0	0	0
26	Orissa	5	0	5	3	2
27	Pondichery	14	0	14	9	5
28	Punjab	35	2	33	28	5
29	Rajasthan	40	2	38	31	7
30	Sikkim	1	0	1	1	0
31	Tamil Nadu	367	9	358	300	58
32	Telengana	21	3	18	6	12
33	Tripura	0	0	0	0	0
34	Uttar Pradesh	91	1	90	77	13
35	Uttarakhand	11	0	11	10	1
36	West Bengal	164	6	158	70	88
Total		2842	102	2740	2007	733

Status of Registered Importers of New Lead Acid Batteries as on till March, 2021

Status of NLAB Registration	by MoEF prior to May, 2010	by CPCB till March 2021	Total
Registrations granted	1072	1668	2740
Registrations cancelled	994	1013	2007
Effective registered importers	78	655	733

List of Authorised/Registered Recyclers of lead bearing waste

S. No	States	No. of Units	Authorized Capacity (MTA)
1	Andhra Pradesh	17	251728
2	A & N	0	0
3	Arunachal Pradesh	0	0
4	Assam	6	26100
5	Bihar	4	6870
6	Chandigarh	0	0
7	Chhattisgarh	5	3308
8	Dadra & Nagar Haveli	0	0
9	Daman & Diu	0	0
10	Delhi	0	0
11	Goa	0	0
12	Gujarat	41	381210
13	Haryana	58	274864
14	Himachal Pradesh	13	82335
15	Jammu & Kashmir	7	72660
16	Jharkhand	2	3730
17	Karnataka	32	419056
18	Kerala	4	6875
19	Lakshadweep	0	0
20	Madhya Pradesh	56	126921
21	Maharashtra	94	350871
22	Manipur	0	0
23	Meghalaya	0	0
24	Mizoram	0	0
25	Nagaland	0	0
26	Orissa	0	0
27	Pondicherry	0	0
28	Punjab	55	79446
29	Rajasthan	121	440,722
30	Sikkim	0	0
31	Tamil Nadu	27	452023
32	Telangana	32	314000
33	Tripura	0	0
34	Uttar Pradesh	34	68309
35	Uttrakhand	3	34200
36	West Bengal	61	135612
	Total	672	3530842