

E-Waste (Management) through Extended Producer Responsibility



National Productivity Council

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E-Waste Management

These rules shall apply to every manufacturer, producer refurbisher, dismantler and recycler involved in manufacture, sale, transfer, purchase, refurbishing, dismantling, recycling and processing of e-waste or electrical and electronic equipment listed in Schedule I, including their components, consumables, parts and spares which make the product operational but shall not apply to-

- (a) waste batteries as covered under the Battery Waste Management Rules, 2022;
- (b) packaging plastics as covered under the Plastic Waste Management Rules, 2016;
- (c) micro enterprise as defined in the Micro, Small and Medium Enterprises Development Act, 2006 (27 of 2006); and
- (d) radio-active wastes as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and rules made there under.

Extended Producer Responsibility

‘Extended Producer Responsibility’ means responsibility of any producer of electrical or electronic equipment for meeting recycling targets only through registered recyclers of e-waste to ensure environmentally sound management of such waste

Modalities of the extended producer responsibility Regime

- (1) All producers shall fulfil their extended producer responsibility obligations as per rules, in doing so they may also take help of third-party organizations such as producer responsibility organizations, collection centers, dealers etc. Provided that the extended producer responsibility shall lie entirely on the producer only.
- (2) The extended producer responsibility for each product shall be decided on the basis of the information provided by the producers on the portal and the individual product's life period as laid down by the Central Pollution Control Board in this regard

Modalities of the extended producer responsibility Regime

- (3) (i) The producer shall fulfill their extended producer responsibility through online purchase of extended producer responsibility certificate from registered recyclers only and submit it online by filing quarterly return.
- (ii) The details provided by producer and registered recycler shall be cross-checked on the portal.
- (iii) In case of any difference, the lower figure shall be considered towards fulfilment of extended producer responsibility obligation of the producer.
- (iv) The certificates shall be subject to environmental audit by the Central Pollution Control Board or any other agencies authorized by the Central Pollution Control Board in this regard.

Recycling

- (i) The Central Pollution Control Board shall generate extended producer responsibility certificate through the portal in favour of a registered recycler.
- (ii) (a) The quantity eligible for generation of extended producer responsibility certificate shall be calculated by the following formula namely:

$$*QEPR = Q_p \times C_f$$

**the QEPR is the quantity eligible for generation of the certificate, Q_p is the quantity of the end product and C_f is the conversion factor (quantity of inputs required for production of one unit of output)*

Extended producer responsibility Certificate Generation

Recycling

(b) Conversion factor Cf for each end product shall be determined by Central Pollution Control Board with the approval of the steering committee.

(iii) The validity of the extended producer responsibility certificate shall be two years from the end of the financial year in which it was generated and the expired certificate automatically extinguished after the period unless extinguished earlier as per the provisions of these rules.

(iv) Each extended producer responsibility certificate shall have a unique number containing year of generation, code of end product, recycler code and a unique code and the extended producer responsibility certificates shall be in the denominations of 100, 200, 500 and 1000 kg or such other denominations as may be laid down by the Central Pollution Control Board with the approval of the Steering Committee.

Extended producer responsibility Certificate Generation

Refurbishing

Example: - If a producer has extended producer responsibility obligation of 100 tonnes in the year

2023-2024 and he purchases recycling certificate of 60 tonnes and refurbishing certificate of 40 tonnes and the concerned item has extended life of five years due to refurbishing. In this case 60 tonnes of the extended producer responsibility of the producer shall be achieved in the year 2023-2024 itself and 75 per cent of the remaining 40 tonne i.e. 30 tonnes shall be carried over and added to the extended producer responsibility of that producer for the year 2028-2029 for that item.

E-Waste Recycling Target

S. No.	Year (Y)	E-Waste Recycling Target (by weight)
1.	2023 -2024	60% of the quantity of an EEE placed in the market in year Y-X, where 'X' is the average life of that product
2.	2024 -2025	60% of the quantity of an EEE placed in the market in year Y-X, where 'X' is the average life of that product
3.	2025 -2026	70% of the quantity of an EEE placed in the market in year Y-X, where 'X' is the average life of that product
4.	2026-2027	70% of the quantity of an EEE placed in the market in year Y-X, where 'X' is the average life of that product
5.	2027-2028	80% of the quantity of an EEE placed in the market in year Y-X, where 'X' is the average life of that product
6.	2028-2029 onwards	80% of the quantity of an EEE placed in the market in year Y-X, where 'X' is the average life of that product

Status of e-Waste recycling

Financial Year	Number of Authorized Dismantlers/ Recyclers	Total Capacity (Tonnes per Annum)
2016-17	178	4,38,086
2017-18	275	5,10,950
2018-19	312	7,82,080.62
2019-20	407	11,10,103.22
2020-21	468	13,85,932.22
2021-22	472	14,26,685.22

Thank you!