

Waste Management Policy-2022

I. Policy Statement

NTPC is committed to the management of all type of wastes generated from its operations, in an environmentally friendly manner and in line with applicable waste management rules.

II. Purpose:

Waste management & proper disposal is our prime responsibility. NTPC is committed towards management of all wastes, including hazardous, e-waste, battery bio-medical and solid waste. The Policy covers wastes which are generated both from within the Company's plants as well as its township premises. NTPC has separate policies for Plastic wastes and E-wastes. However, these are included in the present policy also for comprehensiveness. However, Effluents and Ash are covered in separate policies and a separate policy is being formulated for Gypsum, hence these are not included under this policy.

The systems adopted for waste management are based on Rules notified by the Ministry of Environment, Forest & Climate Change (MoEF&CC), Govt. of India.

III. Philosophy :

NTPC shall follow 3R's (Reduce, Re-use & Recycle) principles for waste management by adopting responsible waste management practices.

IV. Applicability:

This Policy shall apply to all establishments of NTPC including its Joint Ventures and Subsidiaries, all ancillary partners having their establishments in company premises.

V. Objective:

The objectives of the Waste Management Policy are to:

- 1) Ensure that waste management is performed in accordance with all applicable waste management rules
- 2) Minimize waste generation at source and follow 3R (Reduce, Reuse, and Recycle) principles

This document contains:

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- 3) Conduct training and awareness programs for the Company's employees, contractor workers and township residents on waste management guidelines and practices.

VI. Policy:

NTPC shall achieve these objectives by

A) Stakeholder Management:

NTPC shall:

1. Identify and engage internal and external stakeholders (such as employees, township residents, agencies, media, community, gram panchayat, urban local bodies, municipal corporations, District administration, and respective MoEF&CC, SPCB/CPCB & State Governments etc.) for waste management in accordance with respective rules.
2. Take required technological support that promote waste management by collaborating with:
 - a. International, national and internal research institutes
 - b. Various Government and Non-government Organisations
 - c. Suppliers of the technologies
 - d. Common Storage Treatment Disposal Facility, Recyclers, Waste to Energy Plants, Co-processor etc.

B) Training & Awareness Programs:

- a. Provide specialized training at Corporate and Station levels to meet policy objectives.
- b. Conduct training and awareness program for sensitization all employees and allied groups (Townships/ Schools/ CISF/ Agencies, Housekeeping staffs in the station premises)
- c. Encourage the participation in the Professional and Quality Circles focused on waste management.



C) Waste Management Rules & Disposal Methodology

| S. No. | Waste Type | Applicable Rules | Disposal Methodology |
|--------|--|---|---|
| 1 | Used Oil | Hazardous and other waste Management and Transboundary movement [HOW (M&TBM)] Rule 2016 & Amendments thereof if any | Sale through approved (MOEF&CC/ SPCB/CPCB) recycler |
| 2 | Waste Oil | HOW (M&TBM) Rule 2016 & Amendments thereof if any | Sale through approved (MOEF&CC/ SPCB/CPCB) recycler / TSDF |
| 3 | Oil Sludge | HOW (M&TBM) Rule 2016 & Amendments thereof if any | Disposal to TSDF |
| 4 | Waste Drum (Oil drums/ Chemical drum/ Misc drum). | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Sale through approved (MOEF&CC/ SPCB/CPCB) recycler / TSDF |
| 5 | Oil Soaked Cotton | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Through Co-processor mainly Cement industries /TSDF |
| 6 | Used Filter / Filter media | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Through TSDF |
| 7 | Used insulation Material (Glass wool /Mineral Wool) | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Through Co-processor /TSDF |
| 8 | Used Grease | HOW(M&TBM) Rule 2016 & Amendments thereof if any | In house reuse / Through Co-processor /TSDF |
| 9 | Water & Wastewater Treatment Plant Sludge | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Disposal to Ash Dyke, if non-Hazardous after testing / TSDF if Hazardous after testing |
| 10 | Used Activated Carbon and spent Resin | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Through Co-processor /TSDF |
| 11 | Battery Waste | Batteries (Management and Handling) Rules, 2001. | Provision in Purchase order for buy back. Sale to approved recyclers where Buy Back provision not available |
| 12 | Dry Cells/ used torch batteries collected from domestic waste | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Through TSDF |
| 13 | Asbestos packing/ Gland/ Rope or other Miscellaneous material made up of Asbestos as base material | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Through TSDF |
| 14 | Photo Chemical Solution | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Through approved processor/ Disposal to TSDF |
| 15 | Fuller Earth Contaminated with Fire Resistant Fluid (FRF) | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Through to TSDF |
| 16 | Waste FRF/ FRF mixed with water etc | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Through approved (MOEF&CC/ SPCB/CPCB) recycler/ TSDF |



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|----|---|--|--|
| 17 | Silica wastes | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Through TSDF |
| 18 | E-waste | E-Waste (Management) Rules, 2016 | Sale / Disposal through approved recycler/ dismantler (MoEF&CC approved). |
| 19 | Bio-medical waste | Bio-medical waste Management Rule-2016 | Disposal to Common Waste Treatment and Disposal Facility (CWTF) approved by CPCB/SPCB/ MoEF&CC |
| 20 | Any other waste as packaging material made of Thermocol/Styrofoam Packaging or other material not covered | HOW(M&TBM) Rule 2016 & Amendments thereof if any | Through Waste to Energy (WTE) plant or Coprocessor or RDF plant / TSDF |
| 21 | Biodegradable Domestic Waste | Solid Waste Management Rule 2016 | Energy or resource recovery by Conventional composting/ vermicomposting/ WTE plant/ Biogas plant etc |
| 22 | Biodegradable Grass cutting & Other waste | Solid Waste Management Rule 2016 | Resource recovery by Conventional composting/ vermicomposting / Biomass briquettes / pellets |
| 23 | Non-biodegradable Domestic from Township (Recyclable) | Solid Waste Management Rule 2016 | Through recycler, if not successful, attempt to send these to Coprocessor/ RDF/ WTE plant as per the provisions of Solid Waste Management Rule 2016 depending on the type of waste and its composition |
| 24 | Non-biodegradable Domestic from Township (Non-Recyclable). | Solid Waste Management Rule 2016 | Disposal through Co-processor/ Residue derived fuel (RDF) / WTE plant as per the provisions of Solid Waste Management Rule 2016 depending on the type of waste and its composition |
| 25 | Domestic Hazardous (Traces of E-Waste/ Hazardous waste/ Plastic) from Township | Solid Waste Management Rule 2016 | Send to plant area Hazardous waste storage area after segregation on monthly basis |
| 26 | Sanitary waste i.e. wastes comprising of used diapers, sanitary towels or napkins, tampons, condoms, incontinence sheets and any other similar waste. | Solid Waste Management Rule 2016 | Disposal through CWTF approved by CPCB/SPCB/ MoEF&CC until facility at District authority become operational |
| 27 | Construction and Demolition Waste & Sweepings | Construction & demolition Waste Management Rules, 2016 | Waste generate more than 20 tons in a day or 300 tons per month, get approvals from the local authority before starting construction or demolition, as per rules. |



VII. Structure & Responsibilities

Business Unit Heads shall be responsible for implementation of all Policy points considering site conditions.

Station EMG will conduct awareness and training program for all stakeholders in coordination with Site HR- EDC.

VIII. Commitment and Review:

- NTPC commits to support and implement this Waste Management Policy.
- This Policy shall be reviewed as per requirement, but not later than once in three years.

