

Integrated Plastic Management Policy-2019

I. Introduction :

In a timespan of just 65 years, plastics have become one of the most used and produced materials. Though it is very useful, both as a domestic and industrial product, it has proved to be a difficult substance, owing to its non-biodegradable characteristics. Out of all types of plastics, single-use-plastics form has proved to be a menace and need to be handled with more caution.

Single-use plastics, also referred to as disposable plastics, include items intended to be used only once before they are thrown away or recycled. These include, among other items, grocery bags, food packaging, bottles, straws, containers, cups and cutlery. Single use Plastic packaging accounts for about half of the plastic waste which is the main cause of environmental concern.

NTPC formulates the “Integrated Plastic Management Policy 2019” for managing all types of plastic waste throughout its life-cycle viz. entry, usage, segregation, collection, reuse, recycling & disposal.

NTPC always strives to consume optimized quantity of resources and manage the generated waste in environment cohesive approach and intends to be declared as “Single use plastic free” entity.

II. Policy :

Ensure Zero contribution of single-use plastic waste to environment from Company's establishment & operations. Company is committed to recycle, recover energy/ material from entire plastic waste in eco-friendly manner.

NTPC is committed to take various initiatives emanating from above Policy. Plastic waste management systems, processes, practices and research initiatives are taken up to implement policy aspects by ensuring

- (1) Comply with legal requirements, if any
- (2) Restricted entry of single use plastics entry in company's premises
- (3) Segregation of Plastic wastes of all type of plastics (single use or recyclable) either legacy or intruded one and
- (4) Recycling/Recovery of energy or material from the inevitable entrainment of Plastic Waste (single use plastic/ recyclable) with some key equipment procurement.

This document contains:

I. Introduction

II. Policy Statement

III. Principles

IV. Applicability

V. Objectives

VI. Methodology

VII. Structure & Responsibilities

VIII. Commitment & Review

III. Principles :

NTPC shall follow 6 R's principles in the priority order for handling plastic (single use or recyclable):

1. Restriction on entry: Restricted entry of Single use Plastic in Company premises and procurement of single use plastic material.
2. Reduce: Reduction in use of recyclable plastic material, if alternates not available.
3. Reuse: Reuse of plastic, which is recyclable and mandatory for operational requirement.
4. Replace: Replacing the recyclable plastic material with alternate environment friendly/ recyclable options like metal, Wood, Corn Starch, Jute, Cloth, natural origin fiber based product, Bamboo or Paper etc. Use of some recently introduced material, which are biodegradable in shorter time span of less than one year, be encouraged.
5. Recycle: Entire quantity, either legacy or fresh procurement of recyclable plastic to be collected and ensured recycling through buy-back approach.
6. Recover: Recovery of energy and material from either legacy plastic (single use/ recyclable Plastic) /intruded single use plastic or recyclable plastic in company premises.

IV. Applicability:

This policy shall apply to all establishments of NTPC including its JVs and Subsidiaries, all ancillary partners having their establishments in company premises, each employee of company and their family members, employees of ancillary agencies working in company premises and staying in company premises.

V. Objective(s):

1. To be the Single Use Plastic Free company from 43th Foundation day (7th Nov 2019).
2. To ensure energy recovery from entire single use plastic, both legacy and future entry into company premises through inevitable packaging material from third party.
3. To ensure recycling of entire plastic waste, other than single use plastic

VI. Methodology:

NTPC shall achieve these objectives by:

1. Internal & External Stakeholder awareness :

- Identify internal /external stakeholders of following categories to focus appropriate awareness building initiatives;

- a. NTPC employees and their family members,
 - b. Contractors/ agencies, their employees, along with their family if residing in NTPC premises,
 - c. Ancillary agencies, their employees along with their family members,
 - d. Shopkeepers or merchants,
 - e. Agencies running their business in NTPC premises having probable use and generating plastic or plastic waste in NTPC premises.
- Identification of the areas in operational requirements, which need action to achieve goals and targets.
 - Take required technological support for identifying the alternate material for replacement of plastic based materials in usage in company premises for operational requirements.
 - Play key role for undertaking study and policy advocacy for restricting plastic based material entrainment in company premises.
 - Communicate key “Plastic Use and impact on Environment & Health” to all the stakeholders to promote awareness for enforcing the Plastic Policy firmly and timely.

2. **Procurement Procedure & Policy:**

- No purchase /procurement of single use plastic based material in any form including use of packaging of any equipment or material under purchase.
- Replace recyclable plastic with alternate material without compromising the techno-commercial interests of company.
- To have clause in GCC for
 - a. Buy-back of recyclable plastic based material products.
 - b. Segregation and scientific disposal of plastic material used by execution agency in overhaul/ EPC packages / other miscellaneous contracts.

3. **Plastic Waste Management :**

NTPC shall continue to ensure that all locations implement restrictions, reduce, reuse, recycle and recovery principle:

- a) For complete ban on the Single use plastic in all premises of company without deviation.
- b) Ensuring segregation of all plastic wastes, single use or recyclable, while collection of waste in township / plant area.

- c) Reuse of plastic based material wherever possible
- d) Auction of recyclable plastic waste to recyclers
- e) Discourage use of artificial flowers, plastic banners and other decorative material made of plastic.
- f) Disposal of single use plastic through different options *i.e.* RDF, Co-processors, WTE, plastic based construction material etc.

4. **Training & Awareness:**

- a) Awareness program of all external stack holders (mainly shopkeeper/ merchants/ temporary vendors/ weekly vegetable market vegetable vendors etc) about the impact of single use plastic/ recyclable plastic material.
- b) Arrange specialized training to different groups at all locations levels to meet policy objectives.
- c) Plastic related awareness/sensitization for all employees of allied groups (Townships/Schools/CISF/Bank/Post Office etc.).
- d) Encourage discussion platforms such as Quality Circles focused on Single use plastic and management and exploring recyclable plastic based material inevitable for use in operational requirement.
- e) Subscribe and disseminate Single use plastic / recyclable plastic material related study reports, researches, findings, innovations through different media to all employees.

VII. Structure & Responsibilities:

Overall responsibility is vested with NTPC management.

1. Corporate Centre: HR & EMG are responsible for:

- Internal status evaluation of Strategy formulation, review and follow-up of all Plastic management activities.
- Issue necessary Guidelines as required from time to time.

2. RHQs:

- HR, EMG / OS at regions to implement this policy at all premises like offices, guesthouses or learning institutes etc under direct control for implementation.

3. Station/ Project level:

- BUHs shall be responsible for implementation of all policy points.
- HR & Township Administration for managing and ensuring directive of Single Use plastic in commercial establishments (Shops/ restaurants/ Banquets/ clubs/ stadium, canteens, Guest Houses & Hostels, etc.), in station premises and during all the official functions or personal/ private functions in company premises if any.
- Considering site conditions, appropriate guidelines shall be issued in coordination with site EMG.
- Segregation, collection and final disposal of Single Use Plastic either from legacy or fresh waste by respective departments in plant & TAD in township
- Site EMG to conduct sensitization and awareness programmes for all stakeholders in coordination with Site HR.

VIII. Commitment and Review:

NTPC commits to support and implement this Plastic Management Policy. This policy shall be reviewed at opportune time, but not later than once in three years.