

Water Policy-2017

I. Purpose:

Water is the basic amenity for domestic, agricultural and industrial use. As a responsible corporate citizen, NTPC commits to be a flag-bearer, and optimize its processes & practices to increase fresh water availability for other uses.

At the same time, the quality of water/steam is a no-compromise zone for NTPC's processes to ensure uninterrupted supply of power and long life of its equipment.

NTPC hereby commits to proactively address water sustainability issues by implementing this Water Policy, which will serve as a directive for establishing water management strategies, systems, processes, practices and research initiatives keeping in view sustainability aspect, to: (1) comply with legal requirements, (2) minimize its water footprint, and (3) maintain desired water quality during processes and discharges, if any.

II. Philosophy :

NTPC shall follow 3 R's for water conservation and management while carrying out its core business activity of Power Generation:



III. Applicability:

This policy shall apply to all establishments of NTPC, and each employee shall be made a partner in implementing the policy.

This document contains:

I. Purpose

II. Philosophy

III. Applicability

IV. Objective

V. Policy

o Stakeholder Management

o Water Stewardship

o Compliance & Assurance

o Human Resource

Development

VI. Structure &

Responsibilities

IV. **Objective:**

1. To be amongst the least water intensive power generator globally.
2. To ensure right quality of water at every point every time, all the time.

V. **Policy:**

NTPC shall achieve these objectives by:

1. **Stakeholder Management:**

NTPC shall:

- a. Identify internal and external stakeholders (such as employees, Opinion makers, media, community, District administration, and respective State Governments etc), and list their water-related expectations.
- b. Prioritize and identify the areas which need action based on (a), and establish phase wise goals and targets.
- c. Take required technological support that promote water sustainability, by collaborating with:
 1. International and national research institutes.
 2. Equipment manufacturers and suppliers.
 3. Peer group/internal expertise.
- d. Play key role for undertaking study and policy advocacy for water-related issues.
- e. Communicate key “water messages” to all the stakeholders to promote awareness on water sustainability issues and enforce timely and informed decisions.

2. **Water Stewardship:**

NTPC commits to:

- a. Become a Zero Liquid Discharge company for all **closed** cycle operating stations.
- b. Identify and implement Water Management initiatives to reduce specific water consumption in NTPC premises.
- c. Cascade water quality at all points of use, from best to worst quality of water required.

- d. Establish water footprint of NTPC business across its entire value chain, and strive to reduce it, through Stakeholder Management.
- e. Ensure right quality of water (or steam) at every point of use, with zero deviation.
- f. Break down water consumption for all processes individually and benchmark the same internally with other plants and outside NTPC.
- g. Regularly review the quality and availability of water – from traditional and non-traditional resources – to ensure that NTPC’s water supply requirements are met in the short, medium and long term.
- h. Form focused Working Groups at Corporate, Regional and Sites responsible for entire water systems.
- i. Invest in research and adopt new technologies aimed at improving water efficiency and minimizing impact on water resources.
- j. Measure and track domestic water consumption vis-à-vis global standards, for optimization. Adoption of latest technologies to achieve the desired results shall be encouraged and promoted.
- k. Ensure that potential of rain water harvesting is fully garnered at all locations, in plant and township locations as well as green belt areas.
- l. Rehabilitate all the water bodies located in establishment/project affected areas/villages in phased and time bound manner and re-visit them for further activities in a cycle of 5/6 years.

3. Compliance and Assurance:

NTPC shall continue to:

- a. Ensure that Stations have, and comply with water-related regulations, like:
 - Meet environmental norms on Specific Water Consumption.
 - Discharges, if any, shall be consistently as per stipulated norms, and efforts to be made to achieve quality beyond norms.
- b. Identify water-related risks and its mitigation strategies.
- c. Develop water management information systems, to update actual water balance three times a year (seasonal factors), to initiate timely and appropriate actions.
- d. Undertake regular water audits, deliberate and act on recommendations.

4. Human Resource Development:

NTPC shall:

- a. Provide specialized training to focused groups at Corporate and Station levels to meet policy objectives.
- b. Provide training on water related awareness/sensitization for all employees and allied groups (Townships/Schools/CISF/Bank/Post Office etc.).
- c. Subscribe and disseminate water related study reports, researches, findings, innovations through different media to all employees.
- d. Encourage discussion platforms such as Professional and Quality Circles focused on water conservation and sustainability issues.

VI. Structure & Responsibilities:

Overall responsibility is vested with NTPC management, however, responsibility of implementation of this policy is primarily that of the factory occupiers under the guidance of Regional Headquarters.

Focused group structure:

1. Corporate Centre: A dedicated cross-functional group to be formed and responsible for:
 - a. **Strategy formulation**, review and follow-up of all water management activities.
 - b. Design, prepare and support in formulating water budget and its implementation.
 - c. Provide inputs to Sustainable Development group on water related schemes, projects, and planning.
 - d. Issue necessary OGN as required from time to time.
2. RHQs/Stations/Projects:
 - a. REDs to form appropriate dedicated teams in RHQs/Stations/Projects.
 - b. HoPs shall be nodal agency responsible for implementation of all policy points at their respective stations.
 - c. Reflecting site conditions, appropriate LMIs shall be issued.

VII. Commitment and Review:

NTPC commits to support and implement this Water Policy.

This policy shall be reviewed at opportune time, but not later than once in three years.

