

Water Policy-2022

I. Policy Statement:

“Committed to become one of the most water efficient power company globally by generating more power per drop”

II. Purpose:

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

The quality of water/steam is a no-compromise zone for NTPC's processes to ensure un-interrupted power supply and to increase equipment's efficiency & reliability.

NTPC hereby commits to proactively conserve the most precious natural resource and address water sustainability issues through implementation of this Water Policy, which will serve as a directive for establishing water management strategies, systems, processes, practices and research initiatives keeping in view sustainability aspects to:

- (1) Comply with the legal requirements,
- (2) Minimize its water footprint, and
- (3) Maintain desired water quality during processes and discharges, if any.

III. Philosophy :

NTPC shall follow the 3 Rs principle for water conservation and management by adopting the best Practices, while carrying out its core business activity of Power Generation.

This document contains:

I. Policy Statement

II. Purpose

III. Philosophy

IV. Applicability

V. Objective

VI. Policy

1. Stakeholder Management

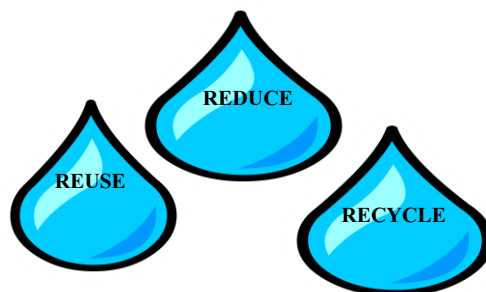
2. Water Stewardship

3. Compliance & Assurance

**4. Human Resource
Development**

VII. Structure &

Responsibilities



IV. Applicability:

This policy shall apply to all establishments of NTPC and its JV companies.

V. Objective:

1. To be amongst the least water intensive power generator globally.
2. To ensure right quality of water all the time along its operations.
3. Endeavor to achieve positive water footprints in NTPC Townships.

VI. Policy:

NTPC shall achieve these objectives by:

1. Stakeholder Management:

NTPC shall:

- a) Identify internal and external stakeholders (such as employees, Suppliers, service providers, 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:
 - International and national research institutes.
 - Equipment manufacturers and suppliers.
 - Peer group/internal expertise.
- d) Play a key role for undertaking study and policy advocacy for water-related issues.
- e) Monitor and report the volumes of its water being withdrawn as per sources as well as discharged as per destinations (if any).
- f) Communicate key “water messages” to all the stakeholders to promote awareness on water sustainability issues and enforce decisions in a timely manner.

2.0 Water Stewardship:

NTPC commits to:

- a) Set clear and measurable short- and long-term targets for its consumption of fresh water and recycling of wastewater.
- b) Become a Zero Liquid Discharge company for all closed cycle operating stations.
- c) Identify and implement water conservation initiatives to reduce specific water consumption in NTPC.
- d) Cascade water quality at all points of use, from best to worst water quality depending on the requirement of systems/ processes.
- e) Establish water footprints of NTPC business across its entire value chain, and strive to reduce it.
- f) Ensure right quality of water (or steam) at every point, without deviation.
- g) Break down water consumption in all processes individually and benchmark the same internally with other stations and outside NTPC.
- h) Regularly review the quality and availability of water – from conventional and non-conventional water resources – to ensure that NTPC’s water supply requirements are met in the short, medium and long term.
- i) Constitute focused Working Groups at Corporate, Regions and Stations, responsible for entire water systems.
- j) Invest in research and adopt edge cutting technologies in all areas wherein company has business ventures to improve water efficiency & reduce impact on natural water resources
- k) 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.
- l) Ensure that potential of rainwater harvesting is fully garnered at all locations in plant, township and green belt areas.
- m) 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 2/3 years.

3. Compliance and Assurance:

NTPC shall continue to:

- a. Ensure that all stations are compliant with water-related regulations, like:

- Compliance beyond Environmental norms on Specific Water Consumption,
 - Discharges, if any, shall be as per stipulated norms and efforts are 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) Organize training on water related aspects for all employees and allied groups (Townships/Schools/CISF/Bank/Post Office etc.).
- c) Share water sustainability practices with stakeholders including suppliers and conduct capacity building programs for them to improve their water conservation, quality monitoring, waste-water treatment, and recycling practices.
- d) Subscribe and disseminate water related study reports, researches, findings, innovations through different media to all employees.
- e) Encourage discussion platforms such as Professional and Quality Circles focused on water conservation and sustainability issues.

VII. 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:
- REs to form appropriate dedicated teams in RHQs/Stations/Projects.
 - BUH shall be responsible for implementation of all policy points at their respective stations.
 - Station will prepare LMI based on site specific conditions.

VIII. Award for Excellence in Water Management in NTPC level

For the contribution in reducing water footprints, two awards shall be given annually on occasion of Water day celebration i.e. 22nd March. Details of award is as follows:

- 1. Most Water Efficient Plant** – One Station shall be awarded for most significant contribution in reducing its water footprint in process/ operations.
- 2. Best Water-efficient Township of year** - For Station's township which is most efficient in water consumption and per capita water consumption is better than national per capita water consumption levels.

IX. 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.

