



# Water Management



## Context

The pharmaceutical industry has a significant water footprint, as water is crucial for manufacturing processes, serving as a raw material, ingredient, and solvent. Research from York University found pharmaceutical contaminants in many rivers worldwide at unsafe levels. The industry requires a reliable supply of high-quality water for production, sanitation, and cooling, while also using water for daily activities. Therefore, conserving water and responsibly disposing of pharmaceutical waste is essential.

## Water is a vital resource for value chain partners, consumers, and the pharmaceutical industry.

## Approach

Judicious water use is of prime importance to us because of the amount of water our operations demand. We hold ourselves accountable for water availability for communities surrounding our plants/offices that may be impacted due to the drawing of water for our everyday operations. Therefore, we monitor our water consumption closely and implement several initiatives to optimize our consumption.

Effluent management is a crucial enabler of our goal to ensure minimal environmental impact and achieve circularity in our operations. Our plants are Zero Liquid Discharge (ZLD), ensuring no wastewater is released into the environment. By treating and reusing our wastewater, we reduce water consumption promoting operational sustainable water use.

Our goals and EHS management system guide our commitment to ensuring the availability of clean, unpolluted water. We strive to advance responsible water stewardship within our operations, recognizing its importance for environmental sustainability.

## Actions & Initiatives

### Water Use Reduction

Our commitment to sustainability is reflected in our diligent monitoring and optimization of water consumption across our operations. Recognizing the importance of water conservation, we have implemented several innovative initiatives designed to reduce our water usage and enhance efficiency. At one of our facilities, we collect rainwater in an underground storage tank, repurposing it for gardening while conserving potable water and utilizing natural resources effectively.

In addition to rainwater harvesting, we employ advanced techniques such as steam condensate recovery and using flash jet pumps to optimize water use. These measures maximize operational efficiency while minimizing our environmental footprints. Furthermore, we recycle water within our facilities, utilizing treated effluent for utility make-up processes. Our water consumption has remained consistently at the same level over the past three years, despite our continuous efforts to expand our production capacity.





## Our Goal

## Achieve Water Positivity by 2032

# 2,26,082 KL 1,165 KL

Freshwater consumption in FY 24

Capacity of Rainwater collection system in our plants



### Effluent Management

Effluent management is a critical component of our strategy to minimize environmental impact and achieve operational circularity. Several of our plants operate with Zero Liquid Discharge (ZLD) systems, ensuring no wastewater is released into the environment. This approach is complemented by advanced Effluent Treatment Plants (ETPs) with RO Recovery Systems allowing us to treat and reuse wastewater, reducing our reliance on freshwater resources.

In FY 24, the amount of wastewater we discharged increased significantly compared to previous years. Despite this increase, we successfully treated 100% of the wastewater released from our operations. About 39% of our wastewater is recycled and reused in the operations through our ZLD systems.

We also procure RO-treated water for specific units, preventing the release of RO wastewater outside our operations. By maintaining ZLD systems and ETPs with RO Recovery Systems, we treat effluents effectively, minimizing environmental impact and promoting resource reuse. These efforts have significantly reduced our dependence on groundwater, leveraging techniques like rainwater harvesting and effluent water treatment to ensure sustainable water management. Through these actions, we continue to demonstrate our commitment to environmental stewardship and operational efficiency.

400 KLD ETP, 100 KLD STP, and 200 KLD MEE capacities drive our efficient wastewater treatment and reuse systems

## 39%

Wastewater recycled and reused

## 55,083 KL

Wastewater recycled and reused

### Outlook

Along with the rest of our initiatives on the environmental front, we are also prioritizing water conservation and responsible wastewater disposal. To foster a structured approach towards conscious water management, we are planning to conduct a comprehensive water risk assessment by FY 25. We have crafted an incremental path towards water conservation, hoping to achieve a water intensity reduction of around 10% yearly. We also want to take our wastewater treatment efforts several notches higher by attempting to recycle 100% of our wastewater across all facilities, in the next few years.

| Water & Wastewater   | Unit                           | FY 24        |
|--|--------------------------------|--------------|
| <b>Water withdrawal by source</b>  |                                |              |
| Surface water  | KL                             | 0            |
| Ground Water   | KL                             | 0            |
| Third Party Water  | KL                             | 3,68,002     |
| Seawater/Desalinated Water   | KL                             | 0            |
| Rainwater Harvesting   | KL                             | 0            |
| <b>Total volume of water withdrawal</b>                                      | KL                             | 3,68,002     |
| <b>Total volume of water consumption</b>                                     | KL                             | 2,26,083     |
| <b>Water intensity in terms of physical output</b>                           | <b>MT/Tonnes of Production</b> | <b>6.070</b> |
| Wastewater Generated (LTDS+HTDS)   | KL                             | 1,41,919     |
| Recycle of Wastewater Generated  | KL                             | 55,083       |
| Percentage Generated Wastewater Recycled                                     | KL                             | 39%          |
| <b>Water discharge by destination and level of treatment (in kiloliters)</b> |                                |              |
| To Surface water   | KL                             | 0            |
| To Groundwater   | KL                             | 0            |
| To Seawater  | KL                             | 0            |
| Sent to third-parties  | KL                             | 79,216       |

