

Hindustan Zinc inaugurates 40 lakh litres per day water treatment plant at Rampura Agucha Mines

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Rampura Agucha Mines is now 5.5 times water positive with first of its kind water treatment plant in underground mine

Hindustan Zinc Limited, India's largest and the world's second largest integrated zinc producer, inaugurated a 4 million litre per day water treatment plant at Rampura Agucha mine. Arun Mishra, Chief Executive Officer, Hindustan Zinc inaugurated this state-of-the-art facility that enhances process efficiency, reduces tailing dam water storage, improves structural stability and optimizes froth flotation process for higher metal recovery.

This achievement reflects Hindustan Zinc's commitment towards responsible water management, which has increased the water positivity of Rampura Agucha mine from 3.2 to 5.5 times, while reducing the use of fresh water by 40 per cent, resulting in saving of 125 crore litres of water annually.

Speaking at the inauguration, Arun Mishra said that this water treatment plant is the first of its kind in the world to be commissioned in an underground mine by Hindustan Zinc. Vedanta Hindustan Zinc considers the importance of water to be of paramount importance, especially in the southern part of Rajasthan. We are constantly working to ensure that we use the least amount of pure water from the natural environment and reuse and recirculate as much water as possible. We have introduced zero liquid discharge system in almost all our plants but this is the first time in an underground mine of this caliber. I am very proud of our project team as well as our mining team at Agucha who have ensured that this plant has been commissioned very smoothly and the output that has been given, we have seen that the quality of water is as good or much better than what we usually use for drinking water.



The launch of this advanced water treatment plant at Rampura Agucha reflects Hindustan Zinc's vision of sustainable mining and operational excellence. By significantly reducing dependence on fresh water and strengthening tailing dam stability, increasing efficiencies, the company is setting new standards in environmental protection.

Along with its operational commitments, Hindustan Zinc is also undertaking large scale community water initiatives to enhance ground water recharge and improve rural water access. In Agucha, Bhilwara district, Hindustan Zinc has undertaken pond restoration work in Agucha Panchayat. The project will revive biodiversity around the villages, increase water availability and positively impact around 25 thousand people.

Expanding its community initiatives, Hindustan Zinc has undertaken a large-scale artificial groundwater recharge project in four blocks in Bhilwara district. Through cleaning of ponds, strengthening of embankments and construction of 358 recharge shafts in 84 ponds, the initiative has created a groundwater recharge potential of 87 lakh cubic metres (or 8700 million litres), a significant achievement in the arid landscape of Rajasthan.



Hindustan Zinc Limited has recycled over 1800 crore liters of water in FY 23-24, which is equivalent to the annual water use of approximately 1 lakh households in Rajasthan. Operating in Rajasthan, one of the most water stressed regions of India, Hindustan Zinc is steadfast in its commitment to sustainable water management, cementing its position as a 2.41 times water positive and zero liquid discharge company. The company maintains a zero liquid discharge approach that ensures that process water and effluent is treated, recycled and reused, significantly reducing dependence on fresh water.