

Hindustan Zinc expands land reclamation efforts in Rajasthan



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[Hindustan Zinc](#) has completed Phase 2 of its [ecological restoration](#) project at the [Chanderiya Lead Zinc Smelter](#) in Chittorgarh, Rajasthan, increasing the total reclaimed area to 13 hectares. The initiative, conducted in partnership with The Energy and Resources Institute (TERI), uses [Mycorrhiza technology](#) to rehabilitate Jarofix-laden industrial land.

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The second phase, which began in August 2024, added 7 hectares to the 6 hectares restored during Phase 1. The land, previously covered in Jarofix—a metal extraction byproduct—now supports vegetation through Mycorrhiza-assisted afforestation. Over 15,000 native plant saplings were added in Phase 2, bringing the total to more than 26,000.

Arun Misra, CEO, Hindustan Zinc, stated, “The transformation of legacy industrial land into thriving green ecosystems reflects our commitment to reimagining mining for the future—one that regenerates, not just extracts.”

Miyawaki method and biodiversity planning

The company has also implemented hydroseeding at various sites using native seeds such as *Dalbergia sissoo*, *Acacia nilotica*, and *Pongamia pinnata*, along with regional

grasses and small shrubs to improve biodiversity and ground cover.

In addition, Hindustan Zinc is applying the Miyawaki method of afforestation at several units. So far, 2.4 hectares across Debari, Dariba, and Chanderiya have been developed with 32,500 saplings from over 65 native species. A recent 1,000-square-metre Miyawaki plantation has also been added at the Kayad mine.

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As part of its collaboration with the International Union for Conservation of Nature (IUCN), the company has prepared site-specific Biodiversity Management Plans (BMPs) for all its operating units. These plans provide guidance for biodiversity conservation, ecosystem restoration, and mine closure activities.

Separately, Hindustan Zinc has signed a memorandum of understanding with the Department of Forest, Udaipur, to invest ₹5 crore in rejuvenating the Baghdarrah crocodile conservation reserve. The project aims to improve nearly 400 hectares of habitat for marsh crocodiles.

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The company's environment strategy aligns with its ESG goals, focusing on land and biodiversity restoration, water use, and responsible mining. Hindustan Zinc also reports under the Taskforce on Nature-related Financial Disclosures (TNFD) and has validated Science Based Targets Initiative (SBTi) goals, in line with the 1.5°C climate threshold.

Earlier in 2025, the company launched a plantation drive with a target of planting 1.5 lakh saplings across its business units.

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