



NATURAL CAPITAL

Committing to a planet positive future

We are committed to addressing climate change concerns and are taking measurable actions to ensure a low-carbon future. We deploy the most stringent systems, processes and controls across our manufacturing units to monitor our environmental footprint and undertake initiatives to make our operations more efficient and sustainable.

Material issues addressed

- Climate change

Key risks considered

- Sustainability risk

SDGs impacted



Our approach to sustainable development

- Sustained investments in cleaner and cost-efficient technologies
- Reduce, reuse and recover for resource conservation and sustainable growth
- Reduce carbon footprint
- Conserve natural resources
- Minimise discharge and disposal



CASE STUDY



TOGETHER FOR
SUSTAINABILITY

DNL Dahej Plant Sets Unprecedented Record with Perfect Score in TfS Audit

We are committed to embedding sustainability in our processes and are proactively working together to address the most pressing environmental, social and economic challenges facing the world today. Our commitment has been acknowledged by EcoVadis through its comprehensive Together for Sustainability (TfS) audit. In this audit, our DNL Dahej plant achieved a perfect score of 100 out of 100 on the first attempt. The TfS Auditor was astonished on outstanding results and he emphasised that DNL is the first company in the history of TfS to receive a flawless score of 100/100 on the first attempt.

This accomplishment showcases our unwavering efforts towards promoting sustainable development.

Key initiatives in FY 2022-23

Emission management

We are strategically increasing our energy efficiencies by equipping our plants with modern and energy efficient equipment and technology. These measures are enabling us to minimise emissions and energy consumption while improving the plant's efficiency. We are progressively shifting to renewable energy and our R&D team is continuously working to improve product yield. We are also working on carbon offsetting for the carbon we generate by planting trees. We have installed electrostatic precipitators, bag filters and scrubber systems in the boilers during the year. We have also replaced older inefficient boilers with newer ones that emit significantly lesser pollution.

6,53,429 MT CO₂e

Scope 1 & 2 emissions

22%

Reduction in Specific GHG Emission

45,360 kWh

Energy savings through renewable sources

Water management

We are taking a holistic approach to water management by adopting water conservation philosophy based on the principles of reduce, reuse and recycle. This approach assists us in achieving our future goal of water positivity. Our intent is to make our operations water efficient and reduce our reliance on fresh water. We are aiming to reach zero-liquid discharge for our facilities. We implemented Zero Liquid Discharge system (ZLD) at the Hyderabad unit which involves the following benefits:

- a. Effluents with high TDS are first given primary treatment and processed through a multi-effect evaporator system, from which the concentrate effluent is sent to a fluidised bed recovery system to recover sodium sulphate salt and treated water is reused in the process
- b. Sewage treated in Sewage Treatment Plant followed by RO plant.

In Roha and Dahej units, approximately 60% of treated water was recovered from total wastewater generated by the installation of Reverse Osmosis system.

4,20,834 KL

Water recycled and reused

36%

Water recycled from total wastewater generated



Waste management

Natural resource management and decreasing environmental impact of production is crucial to us. We utilise resources efficiently and reduce waste generation. The waste generated during our manufacturing processes is disposed of responsibly and in accordance with regulatory requirements under Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016. We adhere to the Pollution Control Board’s air emission standards and do not use any ozone-depleting substances (ODS) in our operations. We recycle all the plastic waste through CPCB-registered plastic waste processor (PWP) and address post-consumer waste through EPR management. 100% Fly ash is handed over to the brick and tiles manufacturer as per fly ash notification.

86%

Waste reused and recycled

45,158 MT

Waste recycled for producing the value-added products

19,033 MT

Co-processing waste sent to third-party cement plant as alternative fuel resource

Our strategic priorities

- Achieve 40% water recycling from total wastewater generation
- Increase capacity of rainwater harvesting
- Recycle 90% of hazardous waste from total waste generation
- Energy savings by installation of renewable energy sources



Paryavaran Today Awards 2023 for Excellence in Recycling Hazardous Waste

Deepak Nitrite Limited was awarded by Paryavaran Today for Excellence in Recycling Hazardous Waste at the Paryavaran Today Awards 2023.

