



Operating with Environmental Discipline

We are embedding sustainability across our value chain, from low-carbon steel and clean energy to green mining and biodiversity. Through innovation, strategic investments and partnerships, we are reducing environmental impact while improving efficiency, demonstrating a strong commitment to decarbonisation, resource optimisation and long-term, sustainable value creation.

Material Issues Impacted

- Waste and Tailings Management
- Climate Change
- Energy Management
- Air Quality Management
- Water and Effluent Management

Strategic Linkages

- SS Disciplined Capital Allocation
- S6 Sustainable Operations Integration

Stakeholder Associated with

- Industry Bodies
- Regulatory Bodies
- Customers
- Employees and Workers
- Community

UN SDGs Impacted



Key Highlights FY 2025-26

129,750 GJs
Renewable energy used
1,759% Y-o-Y growth

0.67 GJ/MT
Energy Intensity
17.75% reduction Y-o-Y

4.41 MnT
Materials consumed by weight



Advancing Low-Carbon Steel Manufacturing

Our Company is adopting advanced technologies to enable low-carbon steel manufacturing at our upcoming integrated steel plant. Focused on reducing emissions, we have implemented initiatives such as a slurry pipeline for efficient raw material transportation and the use of beneficiated BHQ to enhance resource efficiency and lower costs. Optimised operations, including higher PCI rates, elevated blast furnace pressure and improved metallic yield, further contribute to reducing the carbon footprint. Our Company is also evaluating integrated steel projects, new product development and opportunities in low-carbon steelmaking, including export-oriented, value-added products from India's west coast.

Accelerating Clean Energy Transition

We are advancing our clean energy journey through increased adoption of renewable power and greener operations. With over 100 MW of solar and wind energy secured for captive consumption, we are optimising power sourcing through strategic procurement and trading. At Gadchiroli, green mobility initiatives include LNG-hybrid conversion of heavy equipment and the development of EV and LNG ecosystems. We are also progressing towards green mining by deploying electric solutions across our operations with 34 electric equipment units mobilised, enhancing efficiency while reducing environmental impact.

1.18 MTCO₂e
Scope 1 GHG emissions

0.14 MTCO₂e
Scope 2 GHG emissions

0.06 tCO₂e/MT
GHG Emission Intensity
15.28% Y-o-Y reduction

100 MW+
Solar and wind energy secured for captive consumption*

0.013 kg/MT
PM
38% Y-o-Y reduction

0.139 kg/MT
SO_x
41% Y-o-Y reduction

0.092 kg/MT
NO_x
30% Y-o-Y reduction

*120 MW planned

Water Conservation

5.55 million KL
Water consumption

2.28 million KL
Treated water discharge

0.34%
Groundwater withdrawal

7.83 million KL
Water withdrawal

0.84 million KL
Waste water recycled and reused

Waste Management

222 MT
Hazardous waste generated

2,51,800 MT
Non-hazardous waste generated

99.99%
Waste diverted from disposal

11.07 MT
Waste directed to disposal

79,778 MT
Recycled input materials used

Achieving Excellence in Energy Management

We have achieved the ISO 50001:2018 Energy Management System certification for our Ghugus plant by a renowned organisation. The certification covers operations in the manufacture of DRI and co-generation power, this milestone reflects a structured approach to monitoring and improving energy performance, driving operational efficiency and environmental responsibility. It also highlights a culture of continuous improvement, enabling reduced energy consumption, lower wastage and enhanced financial performance.

14.82 mn GJ
Energy consumption

Accelerating Renewable Energy Adoption

We have strengthened our clean energy transition through strategic partnerships with Hinduja Renewables and HEXA Climate. We have signed agreements for an 86 MWP group captive solar project, along with additional solar and wind energy capacities in Maharashtra. These initiatives aim to enhance energy self-sufficiency and reduce carbon emissions across operations. This collaboration aligns with national renewable energy goals while advancing our Company's vision of responsible growth and environmental stewardship.

Green Mining

Driving sustainability at the core of operations, we continue to advance our green mining agenda through innovation, strategic partnerships and responsible practices. By integrating cleaner technologies, strengthening environmental stewardship and fostering research-led solutions, we are setting new benchmarks in sustainable mining while contributing to long-term ecological balance and resilient growth.

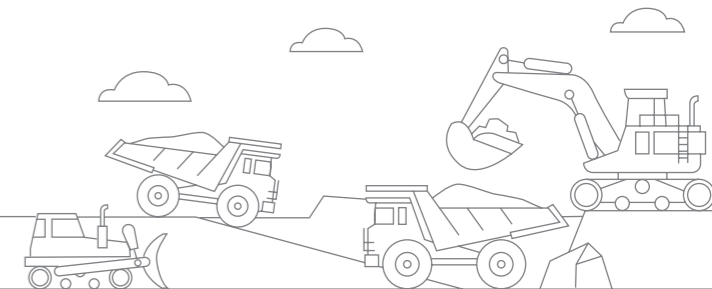
Setting New Benchmarks in Green Mining

Our Surjagarh Iron Ore Mines was recognised with the 'Most Impactful EV Initiative of the Year – 2025' at the Indian Social Impact Awards 2025. The award acknowledges the successful deployment of electric mining trucks and EV-led operations, significantly reducing carbon emissions and noise pollution. This initiative underscores our Company's commitment to green mining, lowering dependence on fossil fuels and aligning with national ESG and carbon neutrality goals. It reflects how innovation and responsible practices are being integrated to build a sustainable, resilient and future-ready mining ecosystem.



Advancing Green Mining through Research Partnerships

We have entered into a strategic MoU with CSIR – Institute of Minerals and Materials Technology to strengthen sustainable mining and metallurgy practices. The collaboration focuses on improving beneficiation of low-grade ores, enhancing processing efficiency and developing environmentally responsible technologies. Green mining remains a key priority for us, driving long-term sustainability and responsible resource utilisation. The partnership also supports indigenous research and innovation, aligned with the vision of building a self-reliant and globally competitive mining sector.



Recognised for Environmental Excellence in Mining

Our Surjagarh Iron Ore Mines achieved a significant milestone by receiving the Platinum Category Award at the 19th Environmental Excellence Awards organised by the Indian Chamber of Commerce in Kolkata. The recognition underscores our Company's strong commitment to sustainable and responsible mining practices. Key initiatives include afforestation and biodiversity conservation, efficient water management and recycling and advanced waste and pollution control measures.



Driving Sustainable Value through Strategic Collaboration

We have signed a 10-year agreement with Harsco Environmental to provide slag processing services at our integrated steel plant in Ghugus, Maharashtra. The partnership will enable the processing of 0.24 million tonnes of steel slag annually, improving resource efficiency and reducing environmental impact. The project is also expected to generate local employment, supporting regional economic growth. By leveraging Harsco's expertise, we aim to strengthen our sustainability agenda, while advancing responsible operations, innovation and long-term value creation within the steel and mining sector.



Rich Biodiversity and Ecological Significance of Gadchiroli

Gadchiroli, often referred to as the 'Lungs of Maharashtra', is one of eastern Maharashtra's richest biodiversity regions with nearly 70% forest cover supporting critical wildlife habitats and ecological corridors connecting Maharashtra with Chhattisgarh and Telangana. The district comprises major protected areas including Chaprala Wildlife Sanctuary, Bhamragarh Wildlife Sanctuary and Kolamarka Conservation Reserve, supported by five territorial forest divisions.

A biodiversity survey conducted during FY2025-26 recorded rich faunal and floral diversity, including 30 mammal species, 180 bird species, 36 herpetofauna species and 45 invertebrate species, alongside extensive floral diversity comprising trees, herbs, shrubs, climbers and graminoids. The region hosts several rare, threatened and protected species, including Sloth Bear, Indian Leopard, Indian Giant Squirrel, White-rumped Vulture, Indian Vulture and Rock Python, with many species classified under the IUCN Red List and Schedule I of the Indian Wildlife Protection Act, highlighting the district's significant ecological and conservation value.

Promoting Environmental Awareness through Community Engagement

We organised a series of activities at Surjagarh Iron Ore Mines to mark Wildlife Week 2025, fostering awareness and appreciation for biodiversity among local communities. The initiative featured a wildlife photography competition, documentary screenings and painting contests that encouraged creative expression among students. A key highlight was the wildlife awareness rally from Hedri Ashram School to Hedri Police Station, promoting conservation and coexistence.

Celebrating World Environment Day

We marked World Environment Day with impactful initiatives across Surjagarh, Konsari, Ghugus and Gadchiroli, launching the 'Green Gadchiroli' programme to plant 11 lakh saplings and reduce carbon footprint. We also advanced our vision of green steel through key milestones, including progress on a slurry pipeline and sustainable mining technologies. Activities included plantation drives, community engagement, distribution of e-bikes and health cards and recognition of operational achievements.

Biodiversity

Our Company has undertaken a comprehensive biodiversity and wildlife conservation programme in Gadchiroli district, supported by a dedicated budget of ₹10 crore over three years. With nearly 70% forest cover and ecologically significant wildlife sanctuaries, our initiatives focus on wildlife protection, habitat conservation, ecological research and community awareness through phased CER and CSR interventions. Key initiatives include a Transit Treatment Centre for injured and orphaned wildlife, biodiversity assessments across sanctuaries and mining zones, protected area monitoring and support for elephant and vulture conservation programmes in collaboration with the Forest Department.

We have also prioritised ecological restoration and environmental awareness through plantation drives, native-species nurseries and biodiversity parks, alongside wildlife awareness programmes for communities, employees and students. In addition, Wildlife Management Plans approved by the PCCF (Wildlife), Maharashtra, covering projects including SIOM, BHQ Beneficiation Plant and Konsari, focus on habitat management, wildlife monitoring and mitigation measures.

The deployment of thermal cameras, solar fencing and bio-composting systems further strengthens biodiversity protection and sustainable environmental management in Gadchiroli.



Reflection of our Environmental Excellence



Recognition at MEMC Week 2026

At the 36th Mines Environment & Mineral Conservation Week 2026, organised under the aegis of the Indian Bureau of Mines, Surjagarh Iron Ore Mines received multiple awards across categories including afforestation, sustainable development, mineral beneficiation and overall performance.

Appreciation for Green Mining Practices

During the 43rd Metalliferous Mine Safety Week in Nagpur, officials from the Directorate General of Mines Safety appreciated our efforts in digitisation and green mining initiatives. Surjagarh Iron Ore Mines also secured several recognitions across safety and sustainability categories.

Strengthening Internal Audit Capabilities

A total of 27 employees from Surjagarh Iron Ore Mines successfully completed Internal Auditor certification programmes covering ISO 9001, ISO 14001 and ISO 45001 standards. The training enhanced internal capabilities in quality management, environmental management and occupational health and safety systems.

Participation in Mining Indaba 2026

LMEL and Thriveni participated in Mining Indaba 2026 in Cape Town under the theme "Stronger Together: Progress through Partnerships". We showcased our focus on responsible mining practices, technology-led operations, community development and sustainable partnerships.

ISO 50001 Energy Management Certification

Our Company's Ghugus Plant achieved ISO 50001:2018 Energy Management System certification from SGS India Private Limited for its DRI and Co-Generation Power operations.

Presence at IME 2025

LMEL participated in the 11th International Mining, Equipment & Minerals Exhibition (IME 2025), engaging with global stakeholders on advancements in mining equipment, mineral processing technologies and sustainable mining practices.

Van Mahotsav Plantation Initiative

As part of the nationwide 'Ek Paudha Maa Ke Naam' campaign led by the Ministry of Environment, Forest & Climate Change, we organised a plantation drive at the Surjagarh Iron Ore Mines. The initiative included the plantation of 4,446 fruit-bearing saplings across villages surrounding the mining area, contributing to regional afforestation and ecological restoration efforts.

Sustainable Water Infrastructure Development

Our Company successfully commissioned a 45 MCM per annum water pipeline project connecting the Pamul Gautami River to the Hedri Grinding Plant. The project strengthens sustainable water sourcing, operational continuity and responsible resource management practices.

