



Memberships and Associations

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Hindustan Zinc is a member of several national and international industry associations, and plays an active role in propagating good practices, sharing knowledge, and taking opportunities to contribute to the development of relevant industry standards. These memberships support us in networking and consensus building within and across sectors, and in raising awareness through various topical seminars, conferences, round tables and trainings.

Our CEO Mr. Arun Misra is holding the key governance positions in some industry associations and influencing key policy advocacy decisions. He is actively participating in various workshops and conferences which are leading towards development of sustainable mining in India.

- Chairperson of International Zinc Association (IZA)
- Chairman – Confederation of Indian Industry State Council.
- Co Chair Non Ferrous minerals sector FICCI
- Co-Chairman – Task Force one building growth back on track (State Level Committee of CII)
- Member of CII Working Group on Driving Accelerated Climate Action by Indian Businesses
- Vice President of Indian Institute of Mineral engineers

He is also on the Board of Ferro Alloys Corporation Limited, Federation of Indian Mineral Industries, Hindustan Zinc Alloys Private Limited, Vedanta Zinc Football and Sports Foundation, Executive Director Vedanta Ltd, ESL, Zinc India Foundation and Hindustan Zinc Fertilisers Private Limited.

NATIONAL AND INTERNATIONAL INDUSTRY MEMBERSHIPS

National

Confederation of Indian Industry (CII) – CII works to create and sustain an environment conducive to the development of India, partnering industry, Government and civil society, through advisory and consultative processes.

Federation of Indian Chambers of Commerce and Industry (FICCI) – FICCI is the voice of India's business and industry - from influencing policy to encouraging debate, engaging with policy makers and civil society.

Associated Chambers of Commerce and Industry of India (ASSOCHAM) - - Known as India's "Knowledge Chamber", it has been focusing on providing knowledge-based technologies and business opportunities to members.

Federation of Indian Mineral Industries (FIMI) - It is an all-India apex body to promote the interests of all mining (including coal), mineral processing, metal making and other mineral-based industries, and to address the problems faced by them in lease grants, renewals, tenures, production, taxation, trade, exports, labour, etc.

We are a member of Memberships and Associations FIMI-Sustainable Mining Initiative (SMI), which promotes tangible and measurable concepts of sustainable mining, and also assists the mining sector in inculcating sustainable practices in mining operations and tackling industry-wide challenges of environmental management and socioeconomic development. We annually submit communication on progress against the 10 sustainable mining principles.

Indian Chamber of Commerce (ICC) - The ICC has been working pro-actively towards creating a conducive and sustainable environment to enable social, industrial and economic growth of the country through policy advocacy.

Federation of Mining Associations of Rajasthan (FOMAR) – This is an Apex Organization which represents the interests of the Mine Owners and Mineral Based Industries of Rajasthan.

Udaipur Chamber of Commerce and Industry (UCCI) – It is a multi-district apex body of trade, industry, mining & tourism, which partners in industry and government alike through advisory and consultative processes, works to create and sustain an environment conducive to the growth of industry in Southern Rajasthan.

National Safety Council (NSC) – The council works on eliminating preventable deaths at work, in homes and communities, and on the road, through leadership, research, education and advocacy.

Recycling & Environment Industry Association of India (REIA) – It is working towards building a "ZERO LANDFILL NATION ". It provides principles for guiding policy and priority setting, and includes an action plan for reducing and managing waste.

Indian Green Building Council (IGBC) – A part of CII, it offers a wide array of services which include developing new green building rating programs, certification services and green building training programs.

International Union for Conservation of Nature (IUCN)

- Leaders for Nature** – IUCN India's business engagement network stimulates and facilitates companies to take the lead in the transition towards a sustainable green Indian economy, by incorporating natural capital in their core business.
- 3-year Engagement** – We have also undertaken a 3-year engagement with the International Union for Conservation of Nature (IUCN) for development of a Biodiversity Management Plan, reframing of Biodiversity Policy, Technical Standards and Guidance notes and develop the protocol for site-specific biodiversity & ecosystem services management with a mission to achieve No Net Loss.



India Lead Zinc Development Association (ILZDA) - A nonprofit non-commercial organization, it is dedicated to market development and dissemination of technical information in respect of Lead, Zinc and their downstream applications.

The India Business & Biodiversity Initiative (IBBI) - IBBI will serve as a national platform of business and its stakeholders for dialogue sharing and learning, ultimately leading to mainstreaming sustainable management of biological diversity into businesses.

CII Climate Action Charter (CCAC) - The CII Climate Action Charter will provide a platform for Indian businesses to map Climate Change as a material risk across value chains and develop long-term actions to build resilience. We are members of CII Climate Charter and CEO Declaration on Climate Change where we are strong proponents of Indian industry taking strong climate commitments in alignment with country's Net Zero goal.

International

International Zinc Association (IZA) - IZA is a non-profit organization with the principle of positively influencing the global zinc market and promoting technology transfer. IZA provides a forum for the zinc industry to analyze and anticipate issues affecting zinc globally, and to ensure a timely and appropriate response.

As part of market development activities, Hindustan Zinc, in collaboration with the International Zinc Association (IZA), is working on multiple projects to increase the zinc per capita consumption in India. Along with IZA, we organized several awareness seminars and programmes on applications of zinc for various stakeholders across the country. Currently, we are working with IZA on major projects, which include supporting BIS for development of standard continuous galvanised rebar in collaboration with IIT Madras, promoting safety with GI scaffolding, rail track metallization and automobile galvanisation.

United Nation Global Compact (UNGC) - It promotes responsible corporate citizenship and a collaborative approach to forging a more sustainable and inclusive global economy. We annually submit our Communication on Progress (COP) toward implementing the 10 Global Compact Principles in our business.

International Council of Metal & Mining - ICMM is a leadership body of 25 of the world's leading mining and metals companies committed to advancing sustainable development, transparency, and ethical practices across the mining value chain. Hindustan Zinc's membership comes following a rigorous independent assessment and endorsement by ICMM's Council, comprising the CEOs of member companies, based on recommendations from the Independent Expert Review Panel (IERP). This marks the council's first new member since 2021 and reaffirms ICMM's deepening engagement in South Asia.

Extractive Industries Transparency Initiative (EITI): The EITI is an international non-profit organization whose core mission is to promote transparency and accountability in the extractive industries—such as mining, oil, and gas—by setting a global standard known as the EITI Standard. HZL's membership as a supporting company marks a strategic commitment to transparency, accountability, and sustainable development—strengthening both its own reputation and the broader push for responsible resource management in India and beyond.

HZL's Statement of Support:

"We believe that transparency is the key to build trust among stakeholders. By adhering to the EITI Standard, we ensure the clarity and accessibility of our financial contributions. This fosters our commitment to transparency, ethical practices and sustainable development. Internationally recognised standards like the EITI provide a strong framework and enhance the credibility of our efforts to create value and improve lives. We look forward to strengthening our relationships with communities and governments through our ongoing support for EITI and the International Council on Mining and Metals (ICMM)."

EXTERNAL COMMITMENTS

UN Global Compact Water Action Platform (CEO Water Mandate)

We are committed to the adoption and implementation of the mandate's strategic framework and its six core elements for water management.

TCFD supporter group

We are a supporter of Taskforce on Climate related Financial Disclosure (TCFD) and its recommendations, requiring companies to demonstrate that they are acting to build a more resilient financial system through climate-related disclosure.

UNGC Women Empowerment Principles

We signed the Women Empowerment Principles for advancing equality between women and men.

Task Force on Nature Related Financial Disclosure (TNFD)

We joined TNFD Observer group - 'Protecting', with enhancement of biodiversity an integral part of our commitment to sustainable development. Hindustan Zinc is excited to support the launch of TNFD (Taskforce Nature related Financial Disclosures), and believes it will be a valuable framework to understand nature related risks and opportunities, and accelerate the transition towards Nature Positive and Carbon Neutral future. We have identified improvement areas through a gap assessment and began integrating the TNFD's LEAP approach into our Corporate Ecosystem Services Review (ESR). As active members of TNFD, we contribute to the development of TNFD framework



by providing feedback.. Our commitment to managing nature-related risks and opportunities was solidified with the publication of our first TNFD Report in 2024, making us one of the early adopters of this globally endorsed framework.

HZL's TNFD 24-25.

UNFCCC COP business leaders working group

Hindustan Zinc is a part of the business leader's group since COP26, which is actively engaged in shaping the agenda for the COP meetings of countries that signed the United Nations' Framework Convention on Climate Change.

SIGNIFICANT COLLABORATIVE PROJECTS UNDERTAKEN DURING THE YEAR

During the year, we collaboratively worked on various projects with national and international industry associations.

Central Research and Developmental Laboratory

Our Central Research and Development Laboratory team worked on various research initiatives in collaboration with various technology providers.

In collaboration with IITs:

- Utilization of Waste Rock in construction sector and as ballast - IIT Roorkee
- "Biotechnology for the recovery of germanium" - provided samples and inputs for initial feasibility testing for recovery of Germanium from HZL wastes/residues - Dept. of Bio Chemical Engg., IIT- Delhi
- Zn Electrowinning - Estimating the CE (faradaic efficiency) of ZnSO₄ solution - IIT Gandhinagar
- Designing lightweight and highly formable Mg-Li/Zn/Ca-RE based alloys using the CALPHAD method - IIT Jodhpur
- Flotation experiment conducted with RAM Tailing at IITH lab with Ball Mill grind at different grind size – IIT Hyderabad

In collaboration with CSIR - Institute of Minerals and Materials Technology (IMMT) Bhubaneswar:

- Testing efficacy of stirred mills for effective fine grinding
- Bioleaching feasibility study
- Hematite production from Jarosite
- Silver recovery from mill tailings and industrially produced Jarofix
- Bench scale validation on HZL in-house process of metal recovery from Jarosite – NML Jamshedpur

Other International Collaborations:

- Utilization of Jarosite/Jarofix as aggregates by Accelerated Carbonation Technology (ACT) – Agreement signed between HZL, CSIR-Central Institute of Mining and Fuel Research (CIMFR), Dhanbad, & University of Greenwich under IUCERI (Indo-UK Centre for Environment Research and Innovation)
- Metal recovery from RA Tailing using Albion's oxidative leaching (Glencore) - (jointly with CORE Australia & IIT Hyderabad)
- Improving Pb liberation by regrind mill for Pb rougher concentrate and then, recovering fine galena by Jameson Floatation Cell in cleaner circuit of RA Stream 1 - SGS Canada
- Cement production from the Pb -Zn Mine tailings in collaboration with EnviCore (Canada)
- Zn recovery from Zn Ferrite residue using green hydrogen - Zinccovery Process Technologies , New Zealand
- Metal recovery from Jarosite residue in collaboration with Phoenix Technologies Ltd , US
- MoU with US based Aesir Tech for technology research on next-gen zinc batteries.

Other Domestic Collaborations:

- MoU with Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), a premier institute sponsored by the Department of Science and Technology, Government of India for New-Age ZincBased Battery Technologies. **Project: Development of 1 kWh electrically rechargeable zinc-air battery prototype.**
- Metal recovery from Jarosite / Jarofix - VeXL technology (Separation of Zn/Fe/SiO₂ by multi - step leaching using HNO₃/ H₂SO₄/ Caustic, Precipitation with NH₃ to fertilizer and others) – MoU with VEXL Environ Projects Pvt Ltd, Bhopal signed in FY 23-24.
- Towards Zinc Battery Gigafactory Consulting for Hindustan Zinc Ltd (HZL)- Customised energy solutions Pvt. Ltd. (CES)

The Energy and Resources Institute

Vedanta has signed an MoU with TERI to work together in the pursuit of solving some of the most pertinent sustainability issues such climate change, resource efficiency, clean energy technology development, waste management, air pollution, value chain and life cycle assessment, just transition and energy security. Through the memorandum the two organizations agree to collaborate on projects in the areas of research, policy facilitation, stakeholder management, environmental awareness and on ground implementation. Under this partnership, work has been done in restoration of The Jarofix Yard phase 2 at CLZS with use of Mycorrhiza technology.

INITIATIVES IN COLLABORATION WITH INTERNATIONAL ZINC ASSOCIATION

Awareness on zinc batteries & galvanization

Hindustan Zinc in collaboration with International Zinc Association (IZA) is working on multiple projects to increase zinc consumption in India. We are creating awareness on use of zinc as an alternate raw material in battery solutions and are in discussion with several experts globally on the availability of technology options for zinc-based batteries. Our galvanised rebar segment is also picking pace and we are working towards increasing consumer awareness alongside IZA. HZL also conduct various seminar in association with International Zinc Association to educate about responsible usage of zinc in various industries like sheet, structure, pharma etc.

Zinc as fertilizer

Another flagship initiative alongside IZA is to address zinc related deficiencies in agricultural soil. Towards this end, we have recently signed a Memorandum of Understanding (MoU) with Maharana Pratap University, Udaipur, a leading university in the Indian state of Rajasthan. The intent is to create awareness amongst the farming community on zinc fortification through field demonstration and capability building

Task Force for Climate Change

We are also actively participating in characterizing the carbon footprint of recycled content in SHG zinc production, and the societal benefits of increased resource recovery in a circular economy. This included decarbonization roadmap, Carbon footprint calculations and reporting guidance for SHG Zinc, Life Cycle Assessment (LCA) & Scope 3 GHG emissions.

Supplier due diligence standard

As part of International Zinc Association's (IZA's) Stewardship Working Group (SWG), we have joined its efforts to prepare a Base Metal Standard to meet the LME requirements. A Joint Due Diligence Standard has been created for lead and zinc.

