

ENTREPRENEUR'S CORNER

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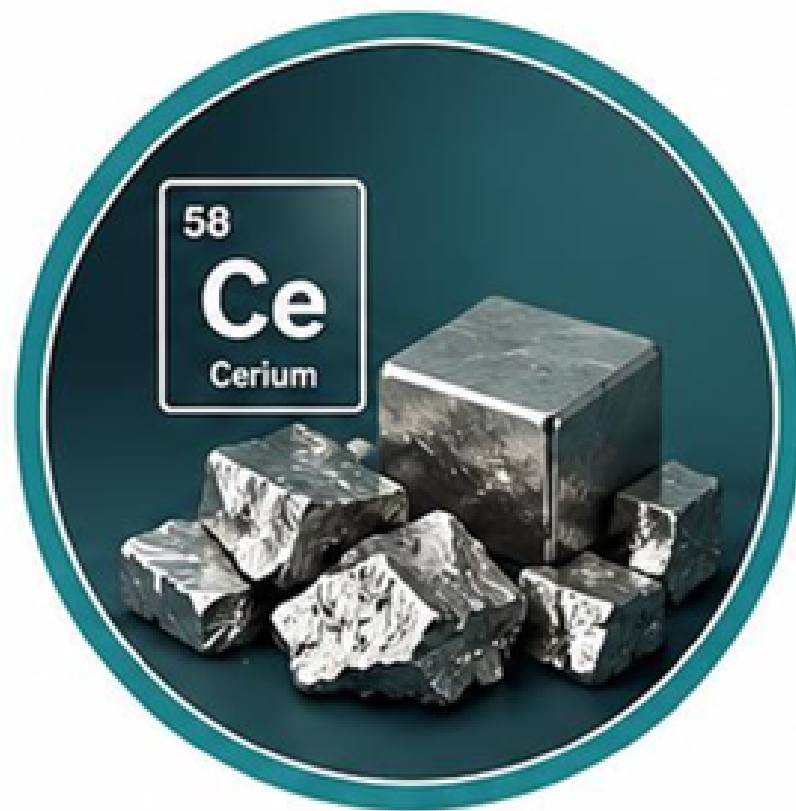
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[Overview](#)





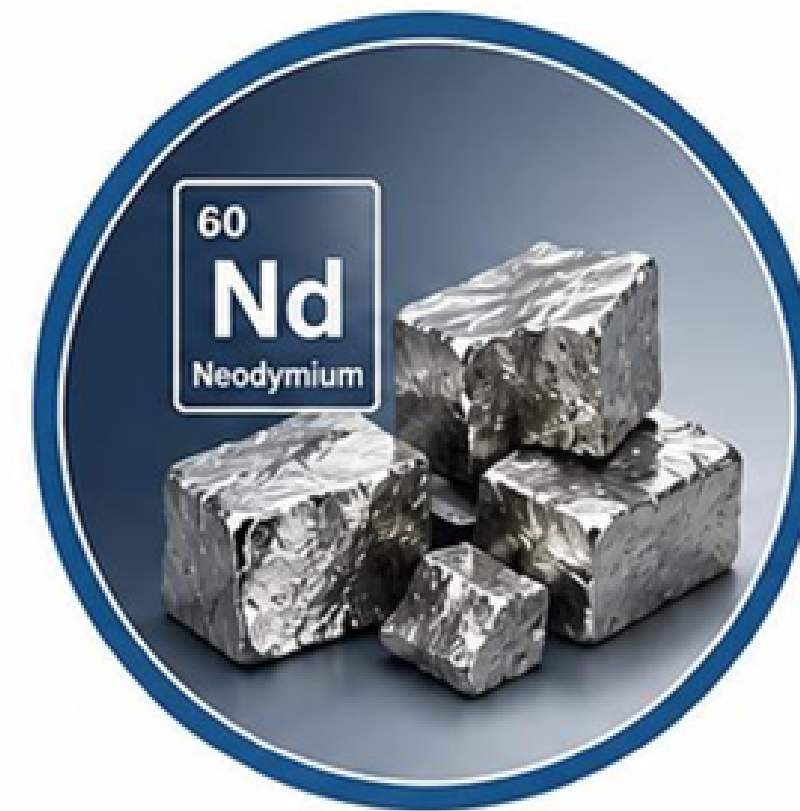
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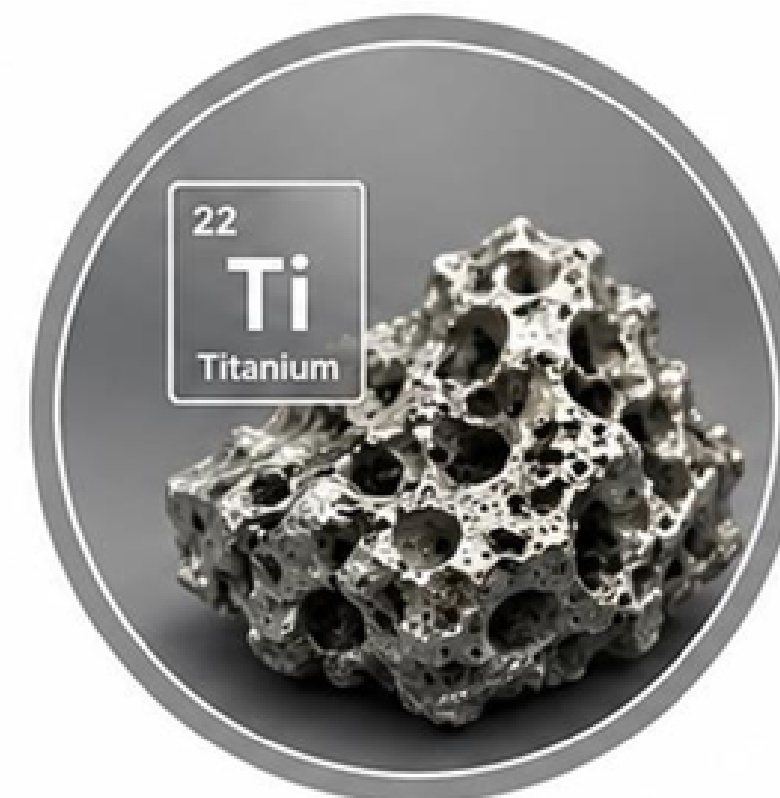
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[!\[\]\(688878992a42b22d6f8308fac0e7fc8e_img.jpg\) LED Phosphor](#)



[!\[\]\(2b434c5978078d0de82c0732585f203c_img.jpg\) Lamp Phosphor](#)



[!\[\]\(32ee4a0cb2a9a67a68b86aec2a08b36c_img.jpg\) Titanium Sponge](#)

Transforming Innovation into Industry

Rare Earth & Titanium Theme Park (RETTP) is India's first integrated technology demonstration and commercialization platform dedicated to the strategic sectors of Rare Earths and Titanium. Established by IREL (India) Limited, RETTP bridges the gap between laboratory-scale research and commercial manufacturing by providing entrepreneurs with access to proven indigenous technologies ready for industrial scale-up.

Whether you are an MSME, startup, established industry, or strategic investor, RETTP offers a unique opportunity to build commercially viable businesses based on technologies developed and demonstrated in India and as such IREL intends to collaborate in building India's next generation of rare earth and titanium industries.

Together, we can create sustainable businesses, strengthen India's critical minerals supply chain, and accelerate the commercialization of indigenous technologies.

Technology Overview

RETTP has been established with the vision of promoting entrepreneurship, technology commercialization, import substitution, and value addition in the country's critical minerals sector. The Theme Park presently hosts seven pilot-scale demonstration plants showcasing indigenous technologies across the rare earth and titanium value chain.

These technologies include:

- Production of [Lanthanum \(La\) Metal](#)
- Production of [Cerium \(Ce\) Metal](#)
- Production of [Neodymium \(Nd\) Metal](#)
- Recovery of [Neodymium & Praseodymium \(NdPr\)](#) from End-of-Life NdFeB Permanent Magnets
- [Lamp Phosphor](#) Manufacturing
- [LED Phosphor](#) Manufacturing
- [Titanium Sponge](#) Production

Each technology has been successfully demonstrated and is available for transfer to entrepreneurs interested in establishing commercial manufacturing facilities. Entrepreneurs can establish standalone manufacturing facilities or develop integrated value chains encompassing raw materials, metal production, recycling, alloy manufacturing, and downstream products.

Capacity Flexibility

The technologies can be implemented across a wide range of production capacities—from pilot-scale demonstration units to full-scale commercial manufacturing plants.

The plant configuration can be customized based on:

- Annual production capacity
- Feedstock availability
- Number and size of process equipment
- Degree of automation
- Installed electrical load
- Utility requirements
- Infrastructure and building requirements
- Manpower deployment
- Storage and logistics facilities
- Desired product quality
- Market demand
- Investment considerations

This flexibility enables entrepreneurs to start at an optimal scale and expand operations as market demand grows.

Why Partner with IREL (India) Limited?

- **Proven Technologies:** All technologies have been successfully demonstrated at RETTP, significantly reducing technology risks during commercialization.
- **Indigenous Innovation:** Commercialize technologies developed in India and contribute to the vision of **Atmanirbhar Bharat**.
- **Comprehensive Technical Support:** Receive end-to-end assistance from technology transfer through commercial implementation.
- **Strategic Sector Expertise:** Benefit from IREL's decades of experience in rare earth processing, mineral beneficiation, metallurgy, and critical minerals.
- **Scalable Solutions:** Technologies are adaptable for pilot, semi-commercial, and commercial production capacities.
- **Strong National Relevance:** Contribute to India's self-reliance in strategic materials, critical minerals, and clean-energy technologies.

Technology Transfer Package

Depending upon the selected technology and project scope, the Technology Transfer Package shall include sharing of process know-how and operating methodology. Sharing of Basic engineering package and process flow diagrams, sharing of equipment specifications and technical recommendations, Quality assurance protocols, Product characterization methodology, Material handling and storage practices, Safety and environmental guidelines, Training of technical personnel and plant operators and other technical supports during engineering, commissioning and commercial scale-up.

How to Apply

Entrepreneurs interested in commercializing any of the technologies available at the Rare Earth & Titanium Theme Park (RETP) are invited to download the prescribed [Application form](#), complete it with the necessary information, and submit it along with all relevant supporting documents to the designated address specified by IREL (India) Limited.

Upon receipt, the application will be evaluated and Applicants whose proposals are found suitable will be invited to enter into a [Memorandum of Agreement \(MoA\)](#) with IREL (India) Limited.

Following the execution of the MoA, both parties shall execute a [Non-Disclosure Agreement \(NDA\)](#) to facilitate the confidential exchange of technical information, process know-how, engineering inputs, and other documents necessary for the detailed technology transfer and commercialization process.

For any queries or further information regarding the Technology Transfer Programme, please contact:

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