



List of On-going R&D projects through IREL TDC as on 31.03.2026

S. No.	Project Title	Project Investigator & Institution	Current Technology status
1.	Design and development of flotation column system for the recovery of monazite from IREL mineral separation plant	IMMT, Bhubaneswar	TRL 4
2.	Technology for Rare-Earth added Aluminium Alloys and Products for Aerospace, Marine, Energy and Automotive Applications	NIIST, Thiruvananthapuram	TRL 3/4
3.	Dry reforming of methane and CO ₂ using protonic ceramic electrochemical cell	IIT Delhi	TRL 2
4.	Rare-Earth Corrosion Inhibitor based Corrosion Protection Coatings for Metals/Alloys	ARCI, Hyderabad	TRL 3
5.	Exploring the Feasibility of Converting Iron Rich IREL's Red Clay into X- and Gamma Ray Shielding Materials.	CSIR-AMPRI	TRL 2
6.	Development of Cerium oxide-based Dispersions for functional polymer Coatings	NIT Warangal	TRL 2
7.	Development of the process for the preparation of low-carbon aluminium killed (LCAK) steel with the addition of rare earth metals (Ce, La)/ misch-metal.	CSIR-NML, Jamshedpur	TRL 4
8.	Development of value-added abrasion resistant ceramic tiles using fine garnet sand of IREL	GCECT, Kolkata	TRL 4
9.	Development of Pilot plant facility for production of 99.9% Terbium Oxide from 15-20% Terbium concentrate by solvent extraction using PC-88A.	RED, IREL	TRL 5
10.	Development of Pilot plant facility for production of 99.9% Europium Oxide from Europium Barium Sulphate cake.	RED, IREL	TRL 5
