



List of On-going R&D projects through IRELTDC as on 31.03.2023

1. Pilot Plant Production and Value Addition to Fully/Partially stabilized zirconia suitable for different advanced technology applications
2. Study of sinterability and product development based on zirconia to be supplied by IREL
3. Development of process flow sheet for the recovery of individual heavy minerals from the mineral sand plant tailings
4. Recovery of Sillimanite from the tails fraction of Heavy Up-gradation section (HUS) of Mineral Processing Plant at IREL OSCOM
5. Development of Pilot plant facility for production of 99.99 % Yttrium Oxide from 92 % yttrium concentrate by solvent extraction using ionic solvent quaternary ammonium chloride (Aliquat-336)
6. Development of New Electrode Using 92% Rutile Grade Flux with Improved Operability and Industrial Applicability.
7. Exploring the potential of rare earth elements (REE) as inclusion modifier towards the production of inclusion-critical special-grade low carbon micro-alloyed steel.
8. Design and development of flotation column system for the recovery of REE bearing mineral from IREL mineral processing plant.
9. Technology for Rare-Earth added Aluminium Alloys and Products for Aerospace, Marine, Energy and Automotive Applications.
10. Processing of Cerium sulphide Red Pigment from Cerrous Carbonate Precursor Produced by IREL.