



IREL (India) Limited

Ongoing R & D Projects

1. Design, Fabrication and Installation of 10 ton Batch Reactor and Its Associated Systems for Monazite Digestion with Sulphuric Acid.
2. Pilot Plant Production and Value Addition to Fully/Partially stabilized zirconia suitable for different advanced technology applications.
3. Development of self cleaning coatings on glass using TiO_2 Nano particles developed at IREL.
4. Processing of NIR reflective CeO_2 nanoparticles for energy saving glaze coatings and cool textiles.
5. Sinterability and product development based on zirconia to be supplied by IREL.
6. Treatment of Wastewater containing primary amines using novel approach of combined hydrodynamic cavitation and oxidation processes.
7. Extraction of Neodymium metal By Molten Salt Electrolytic Process.
8. Flow sheet for production of 99.99 % Gadolinium oxide and 99.99% Europium oxide from Gadolinium concentrate by solvent extraction.
9. Eco-friendly Natural Dyeing of Cotton and Silk using Rare Earths Metal Salts as Mordants.