

## Completed Project During April 2025-March 2026

Project Title	Start Date	End Date	Contract Value (Rs.in Lakhs)
<b>COLLABORATIVE PROJECTS</b>			
Development of process for real time temperature mapping of 4 faces of the billet mould using densely multiplexed Fiber Bragg Grating (FBG) sensor.(CLP-0192)	01-11-17	30-09-25	17.70000
Technology Development For Holistic Utilization Of Red Mud For Extraction Of Metallic Values & Residue Utilisation	01-10-21	30-06-25	137.95800
Fabrication of Two modified binder percentage detection devices	05-04-24	31-03-26	17.70000
<b>CONSULTANCY PROJECTS</b>			
Setting up and Upscaling of a Process for the Production of Copper Powder from Copper Scrap	17-05-24	16-08-25	9.44000
<b>GRANT-IN -AID PROJECTS</b>			
Management and operation of CSIR-NML Intellectual Property Facilitation Centre (IPFC) for MSME	01-08-20	31-07-25	100.00000
Processing of Tin Slag and technological extraction of critical elements for High strength Low Alloy Steels	01-03-22	31-03-26	85.46650
Integrity of the Iron Beams at Konarka Temple	22-06-23	31-03-26	47.43962
Grain boundary engineering for austenitic stainless steel processed by selective laser melting	06-02-23	05-02-26	64.35366
Sustainable Technology for the Production of High-grade synthetic rutile (TiO <sub>2</sub> ) from Odisha Ilmenite under Women Scientist Scheme-A (WOS-A, DST)	29-03-23	28-03-26	38.49090
Science and Technology Innovation Hub in village Gamharia, Saraikela Kharsawan Block, West Singhbhum District, Jharkhand State	10-01-24	14-03-26	97.87687
Beneficiation of coking coal by hybrid mode: dry and wet processing to reduce the ash forming impurities	04-12-23	31-03-26	90.09000
Upgradation of lean grade ore/ slimes through reduction roasting to develop blast furnace grade pellet	12-03-24	30-11-25	47.00000
Development of process for Beneficiation of Lean grade iron ores with less than 45% Fe content	28-03-24	30-11-25	36.56000
Reduction of surface contamination of Teri heavy mineral sand and dewatering studies on slimes	02-09-24	01-09-25	27.64000
<b>CSIR- PROJECTS</b>			
Low Temperature Co-fired Ceramic (LTCC) based eddy current sensor for Real-time health monitoring of power plant components	15-04-24	31-03-26	63.20000
Pilot Upscaling of Indigenously Developed Ultrahigh Strength Armour Steel with Excellent Toughness	01-04-24	31-03-26	89.00000
Extraction of vanadium as high pure V <sub>2</sub> O <sub>5</sub> , and Ni-salts from coal/coke gasification cinders	01-04-24	31-03-26	60.00000
Development of an AI based smart alarm system for predicting critical temperature zone of large industrial structure	14-06-22	13-06-25	90.18900
CO <sub>2</sub> Capture (CC) by Amine Absorption Process with Sequestration by Modified Mineral Carbonation (MC) and Recovery of Marketable Products and Waste Heat (WH)-A Holistic Technology Development Approach	01-06-23	31-05-26	199.22000
Recovery of Metal Values from Mining and Steel Plant Wastes	05-09-23	30-06-25	146.00000

Recovery of Lithium from Potential Indian Primary Resources for Battery Applications	01-10-23	31-03-26	176.16500
CSIR-Virtual laboratory for school students	03-12-20	31-03-26	20.40000
Technology Development For Recovery of Tantalum from Secondary Resources (RETAN)	01-10-23	30-09-25	60.00000
Rare Earth Recovery from Waste Magnet (NdFeB)- Waste Scrap to Metal/oxide/salt Product	01-09-23	31-03-26	194.00000
Ultra-precise on-machine metrology (OMM) system for optical fabrication of freeform optics	13-05-24	31-03-26	21.92000
Development of Gas Atomized Iron Alloy Powders for Soft Magnetic Core Applications	01-04-24	31-03-26	62.81200
<b>IN-HOUSE PROJECTS</b>			
Microstructural evolution of Superalloy Inconel 740H during Thermomechanical Processing(Module I)(Module II)(Module III)	14-04-22	30-06-25	6.57000
To Explore Ferrochrome Slag as a Protective Coating Material to Prevent Corrosion of Caster Rolls	01-01-24	31-03-26	9.10000
Thermal Performance Analysis of Additively Manufactured Liquid Cold Plate for EV Battery (Module-II)	01-04-25	31-03-26	6.20000
Beneficiation of lithium ore by froth flotation to separate lithium, feldspar, and quartz consecutively	01-11-24	30-09-25	1.30000
Development and Optimization of Organic Polymeric Coating for Heritage Conservations	01-05-25	31-03-26	17.87500
Process for production of bio sponge iron utilizing bio wastes and lean grade ferruginous materials	01-05-25	31-03-26	23.62500
Strain Controlled LCF Study: To investigate Low Cycle Fatigue performance of Additively Manufactured Inconel 718 at 650 OC along build direction processed (One way and Two way-Alternate) via LAM-DED	01-05-25	31-03-26	9.59000
Waterborne Eco-Sustainable Sol-Gel Coating via Sono-Ormosil Approach for Corrosion Protection of Metallic Surfaces (Module-I)	01-05-25	31-03-26	
Site-specific electrodeposition of metal nanostructure on anodized Copper-brass substrate and their assessment towards electrochemical energy conversion reaction process	01-05-25	31-03-26	
Thermal Performance Analysis of Additively Manufactured Liquid Cold Plate for EV Battery (Module-II)	01-04-25	31-03-26	1.80000
<b>SPONSORED PROJECTS</b>			
Evaluation and Characterisation of band by band coal analysis of Asansol Coalfields Ltd.(SSP-1262)	01-04-21	30-04-25	314.52089
Refining of hot metal in MgO lined induction furnace	06-01-22	31-07-25	21.24000
Preliminary Fatigue Crack Growth Rate and Fracture Toughness Testing at High Temperatures	16-06-22	30-06-25	146.93679
Study on Gross caloric value in different coal mines of CCL Ranchi	20-01-23	31-03-26	42.26532
Lithological Study of Borehole Coal Cores of Gare-Pelma Sector-III Coal Block, Mand Raigarh Coal Field, Chhattisgarh through Chemical and Physical Characterization	01-08-23	31-03-26	88.33480
Metallurgical Failure Analysis of Roller Boss in a Cement Plant	04-10-24	03-10-25	5.90000
Feasibility study of beneficiation of Quartz	29-11-24	29-05-25	9.44000
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Failure and microstructure characterization of the cement mill roller shaft	02-01-25	31-12-25	5.90000
Metallurgical failure analysis of combines emergency stop valve and control valve (ESVCV) of unit 1 of HP stem turbine	10-01-25	09-01-26	9.73500

High Cycle Fatigue Characterization of Compressor Aerofoil Material GTM-SU-718.	30-01-23	31-07-25	106.90500
Evaluation and health assessment of center buffer coupler parts: Body, Yoke, Knuckle	01-03-23	28-02-26	90.27000
Evaluation and assessment of field withdrawn CBC components	01-04-23	31-03-26	100.30000
Development of Ultra High-strength Al-Mg-Sc alloy	01-07-23	31-05-25	33.38220
Forging, Hot Rolling and Salt Bath Heat Treatment of Different Grades of High Carbon Steels.	01-08-23	31-07-25	58.92920
Technology transfer of a sensing device Zincometer for Zinc coating weight measurement in GI line	06-10-23	30-06-25	9.44000
Validation of know-how for the recovery of REEs from variable Spent NdFeB magnets of variable sources	01-11-23	30-04-25	31.86000
Studies on creep behavior of SS304L base and weld material	14-12-23	13-12-25	45.90200
Development of High Temperature Low Sag Al-alloy conductor	13-02-24	15-02-26	52.10880
Analytical Method Development and Chemical Analysis of Western Region NGCM Samples	01-04-23	28-02-26	184.92960
Feasibility studies of recovery of Manganese values as MnO <sub>2</sub> and Mn <sub>3</sub> O <sub>4</sub> from cell sludge generated during zinc electro-winning	01-05-24	31-12-25	23.60000
Analysis of low grade/sub grade chromite overburden, study at 5-10 kg scale in pot sinter and metallurgical characterization of supplied sample.	01-04-24	30-09-25	16.52000
Pre-reduction and advanced smelting studies of biochar for ferroalloy production	13-06-24	12-12-25	13.27500
Metallurgical Investigation of Fractured Rails Involved in Derailment of Train No. 15904 Dn	16-08-24	15-08-25	21.24000
Band-by-Band and Overall Coal Core Study of Rasulpur and Shrimatpur Area through Chemical and Physical Characterization	01-09-24	31-10-25	15.09869
Transfer of process flow sheet for production of a self-healing coating and primer suitable for application on rusted steel	01-12-24	30-11-25	17.70000
Metallurgical investigation of sheared Starboard Faring of KBU-702 MIG-29 Aircraft for root cause analysis	06-09-24	05-09-25	4.48400
Metallurgical test of wagon components related to the side collision of Train No. 12810	09-09-24	08-09-25	7.67000
Metallurgical investigation for damaged condensate feed system water pipeline and worn out spline shaft of kg linkage	22-05-24	21-08-25	7.08000
Creep behavior studies of martensitic grade steel	27-08-24	26-08-25	6.53720
Effect of heat treatment on tensile creep behaviour of T12 grade of steel	04-12-24	31-03-26	6.17140
Effect of heat treatment on tensile creep behaviour of T11 grade of steel	04-12-24	31-03-26	6.17140
Parametric validation of the process for the recovery of Zn, Pb and Ag from Jarosite	01-09-24	31-12-25	11.80000
Material Evaluation of LHB Railway Wheels	08-02-24	31-05-25	7.61100
Transfer of technology know-how for the "Magnetoimpedance (MI) Based Array Sensing Device for Detection of Carburisation and Defective Welds: MagRays"	17-10-24	31-03-26	15.34000
Critical assessment of high performance anti-corrosion coating for extreme environment	18-10-24	17-04-25	32.19026
Evaluation of debonding area in connecting rods using ultrasonic imaging.	22-10-24	30-11-25	8.17740
Effect of heat Treatment on creep behaviour of different grades of Cr-Mo Steels	04-12-24	31-03-26	13.27500

Process audit of the existing Copper beneficiation plant at Malanjkhand to study the feasibility of capacity enhancement.	29-01-25	31-03-26	51.92000
Metallurgical Failure analysis of boiler tubes of RKM powergen Pvt. Ltd.	10-03-25	31-01-26	10.62000
Metallurgical failure analysis of low pressure (LP) steam turbine blades	03-02-25	02-02-26	5.90000
Feasibility study on the beneficiation of secondary phosphate ore	02-04-25	02-10-25	11.80000
Technical Audit of Rail Manufacturing Process at BSP	17-02-25	31-03-26	20.06000
Life Cycle Coast analysis of Roofing material used for Building Construction for TBSPL	03-02-25	31-07-25	5.90000
Evaluation of coal Characterization of south Eastern Coalfield	11-07-24	31-03-26	56.87600
Investigation of corrosion behaviour of CRS TMT bars and Characterization of mechanical properties	09-04-25	30-09-25	8.49600
Beneficiation of coking coal by hybrid mode: dry and wet processing to reduce the ash forming impurities(Phase-1)	29-05-25	31-03-26	25.70040
High temperature deformation behaviour of different grades of stainless steels	01-04-25	31-03-26	12.50800