

Completed Project During April 2022-March 2023

Project.No.	Project Title	Start Date	End Date	Contract Value (Rs. In Lakhs)
COLLABORATIVE				
CLP 0192	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)	01-11-2017	31-12-2022	17.70000
CLP 0216	Optimisation of FBG sensors requirement for locating the critical zone of Blow pipe	19-03-2020	30-11-2022	18.76200
CLP 0217	Temperature mapping of Down-comers of Pellet plant to identify the critical hot zone to avoid catastrophic failure	19-03-2020	31-03-2023	18.27230
CLP 0218	Sensor and device for on-line Zn weight measurement of GI wires	19-03-2020	31-12-2022	27.25800
CONSULTANCY				
CNP 0135	Consultancy on design,erection and commissioning of flotation column at M/s Tata Steel, Belatinda Coal Preparation Plant	02-04-2019	31-12-2022	10.14446
CNP 0182	Consultancy on Preparation of Basic Engineering Package for 10,000 TPA EMD Plant at Dongri-Buzurg Site of MOIL Ltd.	10-12-2019	31-10-2022	29.50000
CNP 0183	Consultancy on improvement in recovery and purity of zinc metal produced from induction furnace dust	21-03-2021	30-11-2022	11.32800
GRANT-in-AID PROJECT				
GAP 0265	Development & Fabrication of Cannon Liners for Explosive Testing	13-06-2017	28-02-2023	56.82894
GAP 0267	Amorphous Electrical Steel (AES) for Energy Application	30-10-2017	29-10-2022	3634.00000
GAP 0268	Development of cost-effective green technology for pre-reduction of chromite ore in tunnel Kiln & production of high carbon Ferro chrome in SAF	25-09-2017	30-06-2022	134.50000
GAP 0274	High Temperature Oxidation and Hot Corrosion behavior of selected materials for Clean Coal Technologies for Power Plant Applications	01-11-2018	31-03-2023	138.49200
GAP 0275	Creep-fatigue interaction behavior of ODS-austenitic steels and ODS-iron and nickel aluminides	01-11-2018	25-03-2023	295.59400

GAP 0276	Development of Advanced NDE based Diagnosis and Prognosis Protocols for A-USC Power Plants	01-11-2018	25-03-2023	209.75000
GAP 0277	Development of graphene based membranes from graphite ore for desalination(in Collaboration with CSIR NIIST,Thiruvananthapuram)	01-01-2019	31-08-2022	17.73000
GAP 0281	Development of a Cost-Effective Refractory Lining Materials for Induction Melting Furnace Suitable for Production of Quality Steel: Phase II (Industrial Trials).	20-12-2019	30-11-2022	106.35000
GAP 0283	Development of Innovative Hydrometallurgical process for extraction of rare earth elements from metallurgical and chemical process wastes (Innova-Rare)	01-04-2020	31-03-2023	41.28435
GAP 0287	Investigation of creep crack growth rate and damage micro-mechanism of new generation high temperature material (IN617).	06-02-2021	06-02-2023	21.31200
CSIR PROJECTS				
MLP 3112	Development of advanced giant magneto-impedance (GMI) based sensor for structural health monitoring of engineering structure with enhanced area coverage.	01-04-2020	30-09-2022	50.00000
MLP 3115	Development of CS Analytical and Charpy Impact Toughness Physical Standard (CRM) in Steel	11-08-2020	30-09-2022	99.40000
MLP 3118	Development of fire resistant lightweight structural materials by hybridization of inorganic-organic polymers (MLP 3118)	01-09-2020	30-09-2022	40.00000
MLP 3119	Process development of high quality layered transition metal carbides/nitrides/carbonitrides (MAX)	01-04-2020	31-03-2023	50.00000
MLP 3120	Development of Tin-Selenide (SnSe) based thermoelectric thin films for waste heat recovery in metallurgical and other industries (MLP 3120)	01-04-2020	31-03-2023	70.00000
MLP 3121	Development of dry beneficiation process technology for low grade iron ore for iron and steel making	01-04-2020	30-09-2022	60.00000
MLP 3122	Big Data Assimilation and Synthesis for material creep degradation.	01-04-2020	30-09-2022	30.00000

MLP 3123	Thermodynamic and kinetic assessment of interfacial equilibrium conditions in multi-component based bulk nano-pearlitic steels.	01-09-2020	30-09-2022	40.00000
MLP 3124	Development of high ballistic strength armour steel with 2 GPa tensile strength and min 50MPa \sqrt{m} fracture toughness.	01-04-2020	31-03-2023	96.00000
In-House Projects				
OLP 0378	characterization, Benefication and coke formation studies on low volatile coking coal for metallurgical utility (Module I)	01-04-2022	31-03-2023	3.70000
OLP 0389	Numerical modelling of heat transfer and fluid flow in Selective Laser Melting (SLM) of SS316L	01-06-2021	30-06-2022	2.57000
OLP 0392	Multi Physics and Heat treatment Simulation of Additive Manufacturing Process for property prediction of SS316L	01-06-2021	30-09-2022	3.62000
OLP 0393	Investigations on the NMLS retort technology for magnesium metal production	01-06-2021	30-09-2022	9.30000
OLP 0395	Decarburization of high carbon ferroalloys by CO ₂ treatment	01-11-2021	30-09-2022	5.30000
OLP 0396	Production of iron powder/iron nugget from industrial waste by the process of segregation roasting	01-11-2021	30-04-2022	0.80000
OLP 0397	Feasibility study on producing DRI from lumps by using Hydrogen	01-11-2021	31-03-2023	5.97000
OLP 0400	Development of a hybrid centrifugal separator for application in mineral processing.	01-11-2021	30-09-2022	5.00000
OLP 0401	Investigate NML developed furnace compatibility with IIP bio-pellets	01-10-2021	30-04-2022	2.50000
OLP 0402	Development of electromagnetic sensor for real time health monitoring of structural components exposed to High-temperature (600c) (module I)	01-11-2021	30-09-2022	0.98751
OLP 0403	A study on hydrodynamics characteristics in separation of minerals in a monolithic flotation column (Module-I)	01-11-2021	30-09-2022	2.70000
OLP 0405	Evaluation of mechanical property across fusion boundaries of dissimilar metal welds materials using ball indentation technique and co-relate with microstructural characteristics (Module 1)	01-11-2021	30-09-2022	0.00000

OLP 0406	Extraction and Separation of Rare Earth Elements through Porous Silica-Grafted Ligands	01-11-2021	30-09-2022	2.25000
OLP 0407	Oxidation and hot corrosion behaviour studies of Amed Inconel 625 & Inconel 718 alloys	01-11-2021	31-03-2023	6.80000
OLP 0408	UPSACALING OF AN ENERGY EFFICIENT PROCESS FOR THE RECOVERY OF METAL VALUE FROM SPENT NdFeB MAGNETS	01-11-2021	31-03-2023	6.30000
OLP 0409	Development of MoU management system	01-06-2022	31-03-2023	5.90000
OLP 0413	Design and development of an in-house barrel electroplating system for coating Mg-based biodegradable implants	14-04-2022	13-10-2022	4.07500
OLP 0414	Beneficiation of lepidolite bearing pegmatite/aplite for lithium minerals concentrate	14-04-2022	31-03-2023	5.23501
OLP 0416	In-depth study of interfacial conditions during early stages of pearlitic transformation in multicomponent high carbon steels	14-04-2022	31-03-2023	2.44000
OLP 0417	Ratcheting fatigue behavior of welded Inconel 740H nickel-based superalloy under asymmetric cyclic loading	14-04-2022	31-03-2023	1.82451
OLP 0418	Investigation of hydrodynamics of gas solid fluidized bed in terms of angle of fluidization and separation chamber aspect ratio.	14-04-2022	31-03-2023	6.15000
OLP 0419	Development of Fe-rich cost effective High-Entropy Alloys for High Temperature Applications	14-04-2022	31-03-2023	1.32878
OLP 0420	Microstructural evolution of Superalloy Inconel 740H during Thermomechanical Processing	14-04-2022	31-03-2023	1.71000
OLP 0421	Preparation of a geopolymer-type binder from briquette ashes of Gher district in Ulaanbaatar city	14-04-2022	13-10-2022	1.42506
Sponsored Project				
SSP 1094	Metallurgical failure Investigation of boiler tubes of captive thermal power plants from Hindustan Zinc Limited, Rajasthan	18-03-2021	17-04-2022	7.32000
SSP 1095	FEASIBILITY STUDIES ON BENEFICIATION OF LOW GRADE GOAN IRON ORE	09-07-2021	31-12-2022	11.80000
SSP 1096	Feasibility studies on flotation of High-Magnesia limestone from Maharashtra	27-12-2021	26-10-2022	17.70000
SSP 1097	Feasibility studies on flotation of high-Silica limestone from Rajasthan	01-12-2021	30-09-2022	17.70000

SSP 1112	Patent Search and analytics service to tata steel ltd	01-02-2018	31-08-2022	22.84480
SSP 1130	Effect of creep fatigue interation on Disc Forging	01-01-2018	30-06-2022	95.07500
SSP 1138	Seam overall characteristics of coal sample of Asansol coalfields.	01-04-2018	31-03-2023	116.64948
SSP 1140	AUSC 7:Advanced Non-destructive Evalution techniques for Creep Damage Evalution of AUSC power power plant materials.	01-04-2018	30-06-2022	281.15860
SSP 1165	Coal Characterization of different mines of ECL	20-01-2019	30-09-2022	80.00000
SSP 1172	Seam overall characteristics of coal sample of Charina & Ghogdarpalli block, Sohagpur District	01-04-2019	31-03-2023	119.99999
SSP 1191	Study on Gross Caloric Value in different coal mines of BCCL Dhanbad	29-04-2020	01-12-2022	43.14788
SSP 1200	Distribution of rare earth elements and trace elements in soil and sediment in India 1.Pulverization of soil and sediment samples 2.Chemical analysis of soil and sediment samples for rare earth elements, trace elements by HG_AAS, ICP-MS and XRF	12-06-2019	30-09-2022	197.99978
SSP 1207	Coal Characterisation of Singareni collieries Dhanbad.	11-11-2019	30-09-2022	23.99998
SSP 1208	Coal Characterisation of BCCL Collieries Dhanbad	01-04-2020	31-08-2022	33.99999
SSP 1218	Coal Characterization of Assansol and Singrauli Coalfield of India(SSP-1218)	07-02-2020	31-12-2022	120.00000
SSP 1227	Cold Rolling and Annealing of High strength Low Alloy Steel"	10-02-2020	10-05-2022	32.45000
SSP 1230	Cold bonding test work for coke dust	15-01-2020	31-05-2022	18.27336
SSP 1240	Development of Briquetting technique for utilization of Steel plant solid waste (Phase 2)	01-03-2020	30-06-2022	37.16988
SSP 1252	Geopolymerization for Radioactive Waste Immobilization	01-09-2020	30-11-2022	49.44672
SSP 1254	Condenser tube deposit analysis and cleaning process	10-09-2020	30-05-2022	6.01800
SSP 1255	Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255)	02-11-2020	15-10-2022	31.86000
SSP 1256	Process feasibility for utilisation of low-grade iron ore and slime in shaft based DRI technology	03-11-2020	30-06-2022	35.34985

SSP 1257	Bench-scale study on reducing ash content from washery grade coking coal and high ash non coking coal through oil agglomeration	01-10-2020	31-08-2022	36.10800
SSP 1258	Design and fabrication of FlawGuard VerII for defect characterisation and detection	01-12-2020	30-06-2022	9.44000
SSP 1263	Preparation of Detailed Project Report (DPR) for Jafarnagar Silver Cluster Nadia West Bengal	01-12-2020	30-04-2022	8.85000
SSP 1267	FATIGUE BEHAVIOUR OF PRIMARY PIPING/VESSEL MATERIALS IN INDIAN NPPS UNDER MULTI AXIAL CONDITIONS (SSP 1267)	11-02-2021	10-02-2023	44.48600
SSP 1268	Dry beneficiation of limestone samples for removal of iron bearing and other magnetic impurities	15-02-2021	14-08-2022	23.60000
SSP 1270	Residual Life Assessment of Crude and Vacuum heater tubes (SSP 1270)	01-04-2021	31-12-2022	22.04240
SSP 1271	Material Analysis and Reclamation of Gas Collector for GTG-1250-2E	01-12-2020	31-12-2022	85.55000
SSP 1272	Charges for CREEP TESTING at 600oC, 153 MPa on St9ts (X10CrMoVNb9-1) material for 10000 hrs.	02-04-2021	31-07-2022	10.66720
SSP 1273	Transfer of Technological Know-How for the extraction of Cu, Al and Au from waste PCBs (SSP-1273)	12-08-2021	01-02-2023	14.75000
SSP 1274	Transfer of KNOW-HOW for the recovery of Co, Li and Mn from Lithium-Ion Batteries (LIBs) with fine tuning"	01-06-2021	30-11-2022	14.75000
SSP 1281	Development of non-magnetic Fe-Mn biodegradable alloys for biomedical applications	01-07-2021	03-01-2023	22.16040
SSP 1282	Study of mold flux-liquid steel interaction using lifting hearth furnace	13-08-2021	31-07-2022	6.37200
SSP 1284	Lab Scale Study on Reducing Ash Content (Mineral Matter) from Bhubaneswari Kaniha and Hingula Coal through Oil Agglomeration (SSP 1284)	16-09-2021	15-11-2022	11.24347
SSP 1285	Failure analysis of Front Axle Beam (SSP-1285)	14-09-2021	14-09-2022	7.08000
SSP 1286	Metallurgical Failure analysis of Railway wheel Disc (SSP 1286)	30-12-2021	31-12-2022	7.08000
SSP 1287	Synthetic Slag Treatment for Desiliconisation of High Carbon Ferrochrome in EAF (SSP 1287)	08-10-2021	28-02-2023	8.85000

SSP 1288	Recovery of valuable metals from chromite ore overburden by carbothermic smelting in electric arc furnace	11-10-2021	10-10-2022	13.27500
SSP 1289	Pelletization of iron ore concentrate using an organic binder	10-12-2021	31-07-2022	13.57000
SSP 1291	Analysis and Upgradation of Subgrade iron ore fines through Fluidized Bed Reduction with separation (SSP 1291)	01-11-2021	31-03-2023	30.68000
SSP 1294	Development of Rust Converter Composition for Treatment of Rusted Steel	01-02-2022	31-01-2023	5.90000
SSP 1295	Studies on processing of iron ore sample for beneficiation plant at AM/NS, Dabuna.	01-12-2021	31-05-2022	11.80000
SSP 1297	Feasibility study and development of a process for optimisation of reductant blend to partially replace coking coal for production of ferrochrome (SSP 1297)	12-11-2021	11-03-2023	53.10000
SSP 1299	Generating Forming Limit Diagram (FLD) of welded and non-welded aluminum sheets using Nakajima Test	16-12-2021	31-03-2023	#####
SSP 1300	Transfer of Technology Knowhow for the Magnetostrictive Sensing (MsS) Device for Pipe Inspection (MagStrics).	28-12-2021	28-02-2023	3.54000
SSP 1301	Technology for clearing Ball Jam in Ball Pen Tips.	01-02-2022	31-01-2023	5.90000
SSP 1303	Refining of hot metal in MgO lined induction furnace	06-01-2022	28-02-2023	21.24000
SSP 1304	Metallurgical investigation to explore the damage mechanism of worn out quill shaft.	18-01-2022	17-01-2023	5.90000
SSP 1305	Closed-loop Know-How to recycle spent Lithium-Ion Batteries (LIBs) to produce value added products of Li,Co,Mn,Cu,Ni, saleable plastics nad graphite.	23-03-2022	22-03-2023	17.70000
SSP 1307	Processing of hydrocyclone underflow of Zawar grinding circuit towards recovery of silver through advance gravity separator	01-04-2022	31-12-2022	16.52000
SSP 1309	Technology transfer for recycling lithium ion batteries (LIBS) to recover saleable metal/salts of Li, Co, Mn, Ni, Cu, Al, graphite and plastics.	01-04-2022	31-03-2023	17.70000
SSP 1314	Recovery of copper and nickel as salt/metal from metal coated ABS scrap of automobiles	12-05-2022	11-02-2023	5.90000
SSP 1319	Refining of alloy steel ingot casting	22-04-2022	31-12-2022	8.85000

SSP 1322	Development of optimized methodology for hot rolled TWIP steel plates (10mm thickness)	12-05-2022	31-03-2023	17.70000
SSP 1323	Transfer of technology for the Recovery of Li, Ni, Mn, Co from Spent Lithium ion- batteries	01-05-2022	30-08-2022	0.00000
SSP 1327	Dephosphorisation of Hot Metal in an Induction Furnace	10-06-2022	10-12-2022	5.90000
SSP 1329	Transfer of technology for FlawGuard: A device for real time defect detection of high end wire	20-06-2022	19-12-2022	4.72000
SSP 1330	Studies on characterization and beneficiation of low grade iron ore from SMIORE, Karnataka	01-08-2022	31-03-2023	25.96000
SSP 1331	Study of Iron Ore Tailing of GPIL using Column Flotation	01-07-2022	31-03-2023	25.96000
SSP 1340	INVESTIGATION OF FFV SUPPLIED SPOTTED 84MM RL MK-III BARREL	13-09-2022	12-03-2023	5.60500