Completed Project During April 2022-March 2023

			1	C t t
Project.No.	Project Title	Start Date	End Date	Contract Value (Rs. In Lakhs)
COLLABORA	TIVE			
	Development of process for real time			
	temperature mapping of 4 faces of the billet			
	mould using densely multiplexed Fiber Bragg			
CLP 0192	Grating (FBG) sensor.(CLP-0192)	01-11-2017	31-12-2022	17.70000
	Optimisation of FBG sensors requirement for			
CLP 0216	locating the critical zone of Blow pipe	19-03-2020	30-11-2022	18.76200
	Temperature mapping of Down-comers of Pellet			
	plant to identify the critical hot zone to avoid			
CLP 0217	catastrophic failure	19-03-2020	31-03-2023	18.27230
	Sensor and device for on-line Zn weight			
CLP 0218	measurement of GI wires	19-03-2020	31-12-2022	27.25800
CONSULTAN	ICY			
	Consultancy on design, erection and			
	commissioning of flotation column at M/s Tata			
CNP 0135	Steel, Belatinda Coal Preparation Plant	02-04-2019	31-12-2022	10.14446
	Consultancy on Preparation of Basic Engineering			
	Package for 10,000 TPA EMD Plant at Dongri-			
CNP 0182	Buzurg Site of MOIL Ltd.	10-12-2019	31-10-2022	29.50000
	Consultancy on improvement in recovery and			
	purity of zinc metal produced from induction			
CNP 0183	furnace dust	21-03-2021	30-11-2022	11.32800
GRANT-in-A				
	Development & Fabrication of Cannon Liners for			
GAP 0265	Explosive Testing	13-06-2017	28-02-2023	56.82894
	Amorphous Electrical Steel (AES) for Energy			
GAP 0267	Application	30-10-2017	29-10-2022	3634.00000
	Development of cost-effective green technology			
	for pre-reduction of chromite ore in tunnel Kiln &			
GAP 0268	production of high carbon Ferro chrome in SAF	25-09-2017	30-06-2022	134.50000
	High Taman anatuma Quidatian and Hat Cama			
	High Temperature Oxidation and Hot Corrosion			
CAD 0374	behavior of selected materials for Clean Coal	01 11 2012	24 02 2022	120 40202
GAP 0274	Technologies for Power Plant Applications	01-11-2018	31-03-2023	138.49200
	Creep-fatigue interaction behavior of ODS-			
CAD 0375	austenitic steels and ODS-iron and nickel	01 11 2012	25 02 2022	205 50400
GAP 0275	aluminides	01-11-2018	25-03-2023	295.59400

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	Davidonment of Advanced NDE based Diagnosis			
CAD 0276	Development of Advanced NDE based Diagnosis	01 11 2010	25 02 2022	200 75000
GAP 0276	and Prognosis Protocols for A-USC Power Plants	01-11-2018	25-03-2023	209.75000
	Development of graphene based membranes			
	from graphite ore for desalination(in			
	Collaboration with CSIR			
GAP 0277	NIIST, Thiruvananthapuram)	01-01-2019	31-08-2022	17.73000
	Development of a Cost-Effective Refractory Lining			
	Materials for Induction Melting Furnace Suitable			
	for Production of Quality Steel: Phase II (Industrial	20 40 2040		406 05000
GAP 0281	Trials).	20-12-2019	30-11-2022	106.35000
	Development of the continuity of the development of			
	Development of Innovative Hydrometallurgical			
	process for extraction of rare earth elements from			
	metallurgical and chemical process wastes (Innova-			
GAP 0283	Rare)	01-04-2020	31-03-2023	41.28435
	Investigation of creep crack growth rate and			
	damage micro-mechanism of new generation high			
GAP 0287	temperature material (IN617).	06-02-2021	06-02-2023	21.31200
CSIR PROJE	CCTS	T	T	
	Development of a house of sign to see the			
	Development of advanced giant magneto-			
	impedance (GMI) based sensor for structural			
	health monitoring of engineering structure with	04 04 0000		50.0000
MLP 3112	enhanced area coverage.	01-04-2020	30-09-2022	50.00000
	Development of CS Analytical and Charpy Impact			
MLP 3115		11 00 2020	30-09-2022	99.40000
IVILP 3113	Toughness Physical Standard (CRM) in Steel	11-06-2020	30-03-2022	99.40000
	Development of fire resistant lightweight			
	structural materials by hybridization of inorganic-			
MLP 3118	organic polymers (MLP 3118)	01-09-2020	30-09-2022	40.00000
IVILI JIIO	Process development of high quality layered	01-03-2020	30-03-2022	40.00000
	transition metal carbides/nitrides/carbonitrides			
MLP 3119	(MAX)	01_04_2020	31-03-2023	50.00000
IVILE 3113	(IVIAA)	01-04-2020	31-03-2023	30.00000
	Development of Tin-Selenide (SnSe) based			
	thermoelectric thin films for waste heat recovery			
MLP 3120	in metallurgical and other industries (MLP 3120)	01-04-2020	31-03-2023	70.00000
3120	Development of dry beneficiation process	01 04-2020	31 03-2023	70.00000
	technology for low grade iron ore for iron and			
MLP 3121	steel making	01-04-2020	30-09-2022	60.00000
IVILE SILI	Big Data Assimilation and Synthesis for material	01-04-7070	30-03-2022	00.00000
MLP 3122	creep degradation.	01 <u>-</u> 04-2020	30-09-2022	30.00000
LIVILE STAC	ci cep uegiauation.	01-04-5050	30-03-2022	50.00000

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	Thermodynamic and kinetic assessment of			
	interfacial equilibrium conditions in multi-			
MLP 3123	component based bulk nano-pearlitic steels.	01-09-2020	30-09-2022	40.00000
	Development of high ballistic strength armour			
	steel with 2 GPa tensile strength and min			
MLP 3124	50MPam1/2 fracture toughness.	01-04-2020	31-03-2023	96.00000
In-House P	-			
	characterization, Benefication and coke formation			
	studies on low volatile coking coal for			
OLP 0378	metallurgical utility (Module I)	01-04-2022	31-03-2023	3.70000
	Numerical modelling of heat transfer and fluid			
OLP 0389	flow in Selective Laser Melting (SLM) of SS316L	01-06-2021	30-06-2022	2.57000
	Multi Physics and Heat treatment Simulation of			
	Additive Manufacturing Process for property			
OLP 0392	prediction of SS316L	01-06-2021	30-09-2022	3.62000
	Investigations on the NMLS retort technology for			
OLP 0393	magnesium metal production	01-06-2021	30-09-2022	9.30000
	Decarburization of high carbon ferroalloys by CO2			
OLP 0395	treatment	01-11-2021	30-09-2022	5.30000
	Production of iron powder/iron nugget from			
	industrial waste by the process of segregation			
OLP 0396	roasting	01-11-2021	30-04-2022	0.80000
	Feasibility study on producing DRI from lumps by			
OLP 0397	using Hydrogen	01-11-2021	31-03-2023	5.97000
	Development of a hybrid centrifugal separator for			
OLP 0400	application in mineral processing.	01-11-2021	30-09-2022	5.00000
	Investigate NML developed furnace compatibility			
OLP 0401	with IIP bio-pellets	01-10-2021	30-04-2022	2.50000
	Development of electromagnatic sensor for real			
	time health monitoring of structural components			
OLP 0402	exposedto High-temperature (600c) (module I)	01-11-2021	30-09-2022	0.98751
	A study on hydrodynamics characteristics in			
	separation of minerals in a monolithic flotation			
OLP 0403	column (Module-I)	01-11-2021	30-09-2022	2.70000
	Evaluation of mechanical property across fusion			
	boundaries of dissimilar metal welds materials			
	using ball indentation technique and co-relate			
OLP 0405	with microstructural characteristics (Module 1)	01-11-2021	30-09-2022	0.00000

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	Extraction and Separation of Rare Earth Elements			
OLP 0406	through Porous Silica-Grafted Ligands	01-11-2021	30-09-2022	2.25000
	amought croud chief craited Ligaries	01 11 1011	00 00 1011	
	Oxidation and hot corrosion behaviour studies of			
OLP 0407	Amed Inconel 625 & Inconel 718 alloys	01-11-2021	31-03-2023	6.80000
	UPSACALING OF AN ENERGY EFFICIENT PROCESS			
	FOR THE RECOVERY OF METAL VALUE FROM			
OLP 0408	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
	Design and development of an in-house barrel			
	electroplating system for coating Mg-based			
OLP 0413	biodegradable implants	14-04-2022	13-10-2022	4.07500
	Description of leading the beauty of			
OLP 0414	Beneficiation of lepidolite bearing pegmatite/aplite for lithium minerals concentrate	14 04 2022	31-03-2023	5.23501
OLP 0414	pegmatite/apinte for intilium minerals concentrate	14-04-2022	31-03-2023	5.25501
	In-depth study of interfacial conditions during			
	early stages of pearlitic transformation in			
OLP 0416	multicomponent high carbon steels	14-04-2022	31-03-2023	2.44000
	Ratcheting fatigue behavior of welded Inconel			
	740H nickel-based superalloy under asymmetric			
OLP 0417	cyclic loading	14-04-2022	31-03-2023	1.82451
	Investigation of hydrodynamics of gas solid			
	Investigation of hydrodynamics of gas solid fluidized bed in terms of angle of fluidization and			
OLP 0418	separation chamber aspect ratio.	14-04-2022	31-03-2023	6.15000
01. 0.120			01 00 1010	0.2000
	Development of Fe-rich cost effective High-			
OLP 0419	Entropy Alloys for High Temperature Applications	14-04-2022	31-03-2023	1.32878
01.0.420	Microstructural evolution of Superalloy Inconel	14.04.2022	24 02 2022	1 71000
OLP 0420	740H during Thermomechanical Processing Preparation of a geopolymer-type binder from	14-04-2022	31-03-2023	1.71000
	briquette ashes of Gher district in Ulaanbaatar			
OLP 0421	city	14-04-2022	13-10-2022	1.42506
Sponsored	, ,			
	Metallurgical failure Investigation of boiler tubes			
	of captive thermal power plants from Hindustan			
SSP 1094	Zinc Limited, Rajasthan	18-03-2021	17-04-2022	7.32000
CCD 100F	FEASIBILITY STUDIES ON BENEFICIATION OF LOW	00 07 2024	21 12 2022	11 00000
SSP 1095	GRADE GOAN IRON ORE Feasibility studies on flotation of High-Magnesia	09-07-2021	31-12-2022	11.80000
SSP 1096	limestone from Maharashtra	27-12-2021	26-10-2022	17.70000
231 1030	Feasibility studies on flotation of high-Silica	21-12-2021	20-10-2022	17.70000
SSP 1097	limestone from Rajasthan	01-12-2021	30-09-2022	17.70000
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SSP 1112 Itd 0.1-02-2018 31-08-2022 22.84480 SSP 1130 Effect of creep fatigue interation on Disc Forging Seam overall characteristics of coal sample of Asansol coalfields. 01-04-2018 30-06-2022 116.64948 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 1140 power power plant materials. 01-04-2018 30-06-2022 281.15860 SSP 1155 Coal Characterization of different mines of ECL 20-01-2019 30-09-2022 80.00000 SSP 1172 Charina & Ghogdarpalli block, Sohagpur District Study on Gross Caloric Value in different coal mines of BCCL Dhanbad 29-04-2020 01-12-2022 43.14788 Distribution of rare earth elements and trace elements in soil and sediment in India 1. Pulverization of soil and sediment samples for rare earth elements, trace elements by HG_AAS, ICP-MS and XRF 20al Characterisation of Singareni collieries Dhanbad 11-11-2019 30-09-2022 23.99998 SSP 1200 Coal Characterisation of BCCL Collieries Dhanbad 11-11-2019 30-09-2022 23.99998 SSP 1218 Coal Characterisation of Assansol and Singrauli Coalfield of India(SSP-1218) 07-02-2020 31-12-2022 32.45000 25P 1230 Cold Rolling and Annealing of High strength Low Alloy Steel" 10-02-2020 31-05-2022 32.45000 25P 1230 Cold bonding test work for coke dust 15-01-2020 30-06-2022 37.16988 25P 1255 1400 Condenser tube deposit analysis and cleaning process 10-09-2020 30-05-2022 49.44672 Condenser tube deposit analysis and cleaning process 10-09-2020 30-05-2022 6.01800 25P 1255 1255 1256 1255 1256 1255 1256 1256		Patent Search and analytics service to tata steel			
SSP 1130 Effect of creep fatigue interation on Disc Forging Seam overall characteristics of coal sample of SSP 1138 Associ coalfields. AUSC 7:Advanced Non-destructive Evalution techniques for Creep Damage Evalution of AUSC power power plant materials. SSP 1140 power power plant materials. SSP 1165 Coal Characterization of different mines of ECL 20-01-2019 30-09-2022 80.00000 Seam overall characteristics of coal sample of Charina & Ghogdarpalli block, Sohagpur District Study on Gross Caloric Value in different coal mines of BCCL Dhanbad SSP 1191 mines of BCCL Dhanbad Distribution of rare earth elements and trace elements in soil and sediment in India 1. Pulverization of soil and sediment samples for rare earth elements, trace elements by SSP 1200 HG_AAS, ICP-MS and XRF Coal Characterisation of Singareni collieries SSP 1207 Dhanbad. Coal Characterisation of BCCL Collieries Dhanbad Coal Characterization of Assansol and Singrauli Coalfield of India(SSP-1218) Coalfield of India(SSP-1218) Coalfield of India(SSP-1218) Coal Characterization of Recurrent of Singareni collieries SSP 1207 Alloy Steel" SSP 1230 Cold Bonding test work for coke dust Development of Briquetting technique for utilization of Steel plant solid waste (Phase 2) Geopolymerization for Radioactive Waste Immobilization Condenser tube deposit analysis and cleaning process Continuous pilot scale reverse flotation of 15 tons from ore (SSP 1255) Process feasibility for utilisation of low-grade iron	SSP 1112	· ·	01-02-2018	31-08-2022	22 84480
Seam overall characteristics of coal sample of Asansol coalfields. AUSC 7:Advanced Non-destructive Evalution techniques for Creep Damage Evalution of AUSC power power plant materials. SSP 1140 power power plant materials. Coal Characterization of different mines of ECL 20-01-2019 30-09-2022 80.00000 Seam overall characteristics of coal sample of Charina & Ghogdarpalli block, Sohagpur District Study on Gross Caloric Value in different coal mines of BCCL Dhanbad 29-04-2020 01-12-2022 43.14788 Distribution of rare earth elements and trace elements in soil and sediment in India 1.Pulverization 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 1200 Coal Characterisation of Singareni collieries Dhanbad 11-11-2019 30-09-2022 23.99998 SSP 1208 Coal Characterization of BCCL Collieries Dhanbad 01-04-2020 31-08-2022 33.999998 SSP 1218 Coalfield of India(SSP-1218) 07-02-2020 31-12-2022 32.45000 SSP 1230 Cold bonding test work for coke dust 15-01-2020 30-05-2022 32.45000 Development of Briquetting technique for SSP 1240 titilization of Steel plant solid waste (Phase 2) 01-03-2020 30-05-2022 49.44672 Condenser tube deposit analysis and cleaning process (Continuous pilot scale reverse flotation of 10-09-2020 15-10-2022 31.86000 Process feasibility for utilization of low-grade iron Process feasibility for	331 1112		01 02 2010	31 00 2022	22.01100
Seam overall characteristics of coal sample of Asansol coalfields. AUSC 7:Advanced Non-destructive Evalution techniques for Creep Damage Evalution of AUSC power power plant materials. SSP 1140 power power plant materials. Coal Characterization of different mines of ECL 20-01-2019 30-09-2022 80.00000 Seam overall characteristics of coal sample of Charina & Ghogdarpalli block, Sohagpur District Study on Gross Caloric Value in different coal mines of BCCL Dhanbad 29-04-2020 01-12-2022 43.14788 Distribution of rare earth elements and trace elements in soil and sediment in India 1.Pulverization 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 1200 Coal Characterisation of Singareni collieries Dhanbad 11-11-2019 30-09-2022 23.99998 SSP 1208 Coal Characterization of BCCL Collieries Dhanbad 01-04-2020 31-08-2022 33.999998 SSP 1218 Coalfield of India(SSP-1218) 07-02-2020 31-12-2022 32.45000 SSP 1230 Cold bonding test work for coke dust 15-01-2020 30-05-2022 32.45000 Development of Briquetting technique for SSP 1240 titilization of Steel plant solid waste (Phase 2) 01-03-2020 30-05-2022 49.44672 Condenser tube deposit analysis and cleaning process (Continuous pilot scale reverse flotation of 10-09-2020 15-10-2022 31.86000 Process feasibility for utilization of low-grade iron Process feasibility for	SSP 1130	Effect of creen fatigue interation on Disc Forging	01-01-2018	30-06-2022	95 07500
AUSC 7:Advanced Non-destructive Evalution techniques for Creep Damage Evalution of AUSC power power plant materials.	331 1130		01 01 2010	30 00 2022	33.07300
AUSC 7:Advanced Non-destructive Evalution techniques for Creep Damage Evalution of AUSC power power plant materials. SSP 1165 Coal Characterization of different mines of ECL Seam overall characteristics of coal sample of Charina & Ghogdarpalli block, Sohagpur District Study on Gross Caloric Value in different coal mines of BCCL Dhanbad Distribution of rare earth elements and trace elements in soil and sediment in India 1. Pulverization of soil and sediment samples for rare earth elements, trace elements by HG_AAS, ICP-MS and XRF Coal Characterisation of Singareni collieries Dhanbad. 11-11-2019 30-09-2022 197.99978 SSP 1207 Charina certification of BCCL Collieries Dhanbad Coal Characterisation of BCCL Collieries Dhanbad Coal Characterization of Assansol and Singrauli Coal Granting SSP-1218 Coal Ghoding and Annealing of High strength Low Alloy Steel" Development of Briquetting technique for utilization of Steel plant solid waste (Phase 2) Development of Briquetting technique for utilization of Steel plant solid waste (Phase 2) Condenser tube deposit analysis and cleaning process Continuous pilot scale reverse flotation of Iow-grade iron Alloy-2020 15-10-2022 31.86000 Process feasibility for utilisation of low-grade iron	CCD 113Ω	·	01-04-2018	31_03_2023	116 6/0/18
techniques for Creep Damage Evalution of AUSC power power plant materials. SSP 1165 Coal Characterization of different mines of ECL 20-01-2019 30-09-2022 80.00000 Seam overall characteristics of coal sample of Charina & Ghogdarpalli block, Sohagpur District O1-04-2019 31-03-2023 119.99999 Study on Gross Caloric Value in different coal mines of BCCL Dhanbad 29-04-2020 01-12-2022 43.14788 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 1200 HG_AAS, ICP-MS and XRF 11-11-2019 30-09-2022 23.99998 SSP 1207 Coal Characterisation of BCCL Collieries Dhanbad 11-11-2019 30-09-2022 33.99999 SSP 1208 Coal Characterisation of BCCL Collieries Dhanbad 11-11-2019 30-09-2022 33.99999 SSP 1218 Coalfield of India(SSP-1218) 07-02-2020 31-12-2022 32.45000 SSP 1227 Alloy Steel" 07-02-2020 31-12-2022 32.45000 SSP 1230 Cold bonding test work for coke dust 15-01-2020 30-06-2022 37.16988 Geopolymerization of Radioactive Waste Immobilization Condenser tube deposit analysis and cleaning process 100-9-2020 30-05-2022 49.44672 Condenser tube deposit analysis and cleaning process 125-1250 15-10-2022 31.86000 Process feasibility for utilisation of low-grade iron 15-10-2020 31-10-2022 31.86000	33F 1136	Asalisoi coalileius.	01-04-2018	31-03-2023	110.04348
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Seam overall characteristics of coal sample of Charina & Ghogdarpalli block, Sohagpur District Study on Gross Caloric Value in different coal mines of BCCL Dhanbad 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 Coal Characterisation of Singareni collieries Dhanbad. 11-11-2019 Coal Characterisation of BCCL Collieries Dhanbad Coal Characterization of Assansol and Singrauli Coal Geold Rolling and Annealing of High strength Low Alloy Steel" SSP 1230 Cold Rolling and Annealing of High strength Low SSP 1230 Cold bonding test work for coke dust Development of Briquetting technique for utilization of Steel plant solid waste (Phase 2) Condenser tube deposit analysis and cleaning process Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) Process feasibility for utilisation of low-grade iron SSP 1255 SSP 1256 SSP 1256 SSP 1257 Suddenser Standard Singard (1)-04-2020 10-04-2020 10-04-2020 10-04-2020 10-05-2022 10-	SSP 1140	power power plant materials.	01-04-2018	30-06-2022	281.15860
Seam overall characteristics of coal sample of Charina & Ghogdarpalli block, Sohagpur District Study on Gross Caloric Value in different coal mines of BCCL Dhanbad 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 Coal Characterisation of Singareni collieries Dhanbad. 11-11-2019 Coal Characterisation of BCCL Collieries Dhanbad Coal Characterization of Assansol and Singrauli Coal Geold Rolling and Annealing of High strength Low Alloy Steel" SSP 1230 Cold Rolling and Annealing of High strength Low SSP 1230 Cold bonding test work for coke dust Development of Briquetting technique for utilization of Steel plant solid waste (Phase 2) Condenser tube deposit analysis and cleaning process Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) Process feasibility for utilisation of low-grade iron SSP 1255 SSP 1256 SSP 1256 SSP 1257 Suddenser Standard Singard (1)-04-2020 10-04-2020 10-04-2020 10-04-2020 10-05-2022 10-	CCD 44CE	0 101	20.04.2040	20 00 2022	00 00000
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SSP 1172 Charina & Ghogdarpalli block, Sohagpur District Study on Gross Caloric Value in different coal SSP 1191 mines of BCCL Dhanbad 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 2. Chemical analysis of soil and sediment samples 5SP 1200 HG_AAS, ICP-MS and XRF Coal Characterisation of Singareni collieries Dhanbad. Coal Characterisation of BCCL Collieries Dhanbad Coal Characterization of Assansol and Singrauli SSP 1218 Coalfield of India(SSP-1218) Cold Rolling and Annealing of High strength Low Alloy Steel" Development of Briquetting technique for SSP 1230 Cold bonding test work for coke dust Development of Steel plant solid waste (Phase 2) Geopolymerization of Condenser tube deposit analysis and cleaning SSP 1254 Continuous pilot scale reverse flotation of 15 tons Continuous pilot scale reverse flotation of low-grade iron India 29-04-2020 10-12-2022 11-12-2022 120.00000 11-12-2022 12-00-2020 10-05-2022 120.00000 12-11-2020 12-11-2020 12-11-2022 120.00000 13-13-2020 13-13-2022 120.00000 13-13-2020 13-13-2022 120.00000 13-13-2020 13-13-2022 120.00000 13-13-2020 13-13-2022 120.00000 13-13-2020 13-13-2022 120.00000 13-13-2020 13-13-2022 120.00000 13-13-2020 13-13-2022 120.00000 13-13-2020 13-13-2022 120.00000 13-13-2020 13-13-2022 120.00000 13-13-2020 13-13-2022 120.00000 13-13-2020 13-13-2022 120.00000 13-13-2020 13-					
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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 Coal Characterisation of Singareni collieries Dhanbad. SSP 1207 Dhanbad. Coal Characterisation of BCCL Collieries Dhanbad Coal Characterization of Assansol and Singrauli Coal Characterization of Assansol and Singrauli Coal Characterization of High strength Low Alloy Steel" Cold Rolling and Annealing of High strength Low SSP 1227 Alloy Steel" Development of Briquetting technique for utilization of Steel plant solid waste (Phase 2) Development of Steel plant solid waste (Phase 2) Condenser tube deposit analysis and cleaning process Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) Process feasibility for utilisation of low-grade iron Distribution and sediment in India 1. Pulverization samples 2. Chemical analysis and trace elements by 12-06-2019 30-09-2022 197.99978 12-06-2019 30-09-2022 33.99998 10-09-2020 31-08-2022 33.99998 10-09-2020 31-08-2022 32.45000 10-09-2020 31-08-2022 32.45000 10-09-2020 31-08-2022 32.45000 10-09-2020 30-06-2022 37.16988 10-09-2020 30-06-2022 37.16988 10-09-2020 30-06-2022 37.16988 10-09-2020 30-06-2022 37.16988		'			
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SSP 1207 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 Coal Characterization of Assansol and Singrauli 07-02-2020 31-12-2022 120.00000 SSP 1218 Coalfield of India(SSP-1218) 07-02-2020 31-12-2022 120.00000 SSP 1227 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 Development of Briquetting technique for utilization of Steel plant solid waste (Phase 2) 01-03-2020 30-06-2022 37.16988 SSP 1252 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 Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) 02-11-2020 15-10-2022 31.86000		_			
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Coal Characterization of Assansol and Singrauli Coalfield of India(SSP-1218) Cold Rolling and Annealing of High strength Low SSP 1227 Alloy Steel" Cold bonding test work for coke dust Development of Briquetting technique for SSP 1240 utilization of Steel plant solid waste (Phase 2) Geopolymerization for Radioactive Waste SSP 1252 Immobilization Condenser tube deposit analysis and cleaning process Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) Process feasibility for utilisation of low-grade iron Cold Rolling and Annealing of High strength Low 10-02-2020 10-05-2022 32.45000 10-03-2020 31-05-2022 32.45000 31-05-2022 32.45000 31-05-2022 32.45000 31-05-2022 37.16988 01-03-2020 30-06-2022 37.16988 01-09-2020 30-06-2022 49.44672 Condenser tube deposit analysis and cleaning SSP 1254 process Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) 31.86000					
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SSP 1218 Coalfield of India(SSP-1218) 07-02-2020 31-12-2022 120.00000 SSP 1227 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 Development of Briquetting technique for SSP 1240 utilization of Steel plant solid waste (Phase 2) 01-03-2020 30-06-2022 37.16988 Geopolymerization for Radioactive Waste 01-09-2020 30-11-2022 49.44672 Condenser tube deposit analysis and cleaning process 10-09-2020 30-05-2022 6.01800 SSP 1254 Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) 02-11-2020 15-10-2022 31.86000 Process feasibility for utilisation of low-grade iron					
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Development of Briquetting technique for utilization of Steel plant solid waste (Phase 2) 01-03-2020 30-06-2022 37.16988 Geopolymerization for Radioactive Waste Immobilization 01-09-2020 30-11-2022 49.44672 Condenser tube deposit analysis and cleaning process 10-09-2020 30-05-2022 6.01800 Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) 02-11-2020 15-10-2022 31.86000 Process feasibility for utilisation of low-grade iron					
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SSP 1240 utilization of Steel plant solid waste (Phase 2) 01-03-2020 30-06-2022 37.16988 Geopolymerization for Radioactive Waste SSP 1252 Immobilization 01-09-2020 30-11-2022 49.44672 Condenser tube deposit analysis and cleaning process 10-09-2020 30-05-2022 6.01800 Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) 02-11-2020 15-10-2022 31.86000 Process feasibility for utilisation of low-grade iron		Development of Briguetting technique for			
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SSP 1252 Immobilization 01-09-2020 30-11-2022 49.44672 Condenser tube deposit analysis and cleaning 10-09-2020 30-05-2022 6.01800 SSP 1254 Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) 02-11-2020 15-10-2022 31.86000 Process feasibility for utilisation of low-grade iron Process feasibility for utilisation of low-grade iron 15-10-2022	33P 1240		01-03-2020	30-06-2022	37.10900
Condenser tube deposit analysis and cleaning process 10-09-2020 30-05-2022 6.01800 Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) 02-11-2020 15-10-2022 31.86000 Process feasibility for utilisation of low-grade iron	CCD 4252		04 00 2020	20 44 2022	40 44672
SSP 1254 process 10-09-2020 30-05-2022 6.01800 Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) 02-11-2020 15-10-2022 31.86000 Process feasibility for utilisation of low-grade iron Process feasibility for utilisation of low-grade iron 10-09-2020 30-05-2022 6.01800	SSP 1252		01-09-2020	30-11-2022	49.44672
Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255) O2-11-2020 15-10-2022 31.86000 Process feasibility for utilisation of low-grade iron					
SSP 1255 iron ore (SSP 1255) 02-11-2020 15-10-2022 31.86000 Process feasibility for utilisation of low-grade iron 02-11-2020	SSP 1254		10-09-2020	30-05-2022	6.01800
Process feasibility for utilisation of low-grade iron					
	SSP 1255	iron ore (SSP 1255)	02-11-2020	15-10-2022	31.86000
SSP 1256 ore and slime in shaft based DRI technology 03-11-2020 30-06-2022 35.34985		Process feasibility for utilisation of low-grade iron			
	SSP 1256	ore and slime in shaft based DRI technology	03-11-2020	30-06-2022	35.34985

	Bench-scale study on reducing ash content from			
	washery grade coking coal and high ash non			
SSP 1257	coking coal through oil agglomeration	01 ₋ 10 ₋ 2020	31-08-2022	36.10800
331 1237	coking coar through on agglomeration	01-10-2020	31-00-2022	30.10000
	Design and fabrication of FlawGuard VerII for			
CCD 12E0	defect characterisation and detection	01 12 2020	20.06.2022	0.44000
SSP 1258	defect characterisation and defection	01-12-2020	30-06-2022	9.44000
	Preparation of Detailed Project Report (DPR) for			
SSP 1263	Jafarnagar Silver Cluster Nadia West Bengal	01 12 2020	30-04-2022	8.85000
33P 1203	Jaiamagar Silver Cluster Nadia West Bengar	01-12-2020	30-04-2022	8.83000
	FATICLE BELLAVIOUR OF BRIMARY BIRING AVECER			
	FATIGUE BEHAVIOUR OF PRIMARY PIPING/VESSEL MATERIALS IF INDIAN NPPS UNDER MULTI AXIAL			
SSP 1267		11 02 2021	10 02 2022	44 49600
33P 1207	CONDITIONS (SSP 1267) Dry beneficiation of limestone samples for	11-02-2021	10-02-2023	44.48600
	removal of iron bearing and other magnetic			
CCD 1269		15 02 2021	14 00 2022	22 60000
SSP 1268	impurities Residual Life Assessment of Crude and Vacuum	15-02-2021	14-08-2022	23.60000
CCD 1270		01 04 2021	21 12 2022	22.04240
SSP 1270	heater tubes (SSP 1270) Material Analysis and Reclamation of Gas	01-04-2021	31-12-2022	22.04240
CCD 1271	•	01 12 2020	24 42 2022	05 55000
SSP 1271	Collector for GTG-1250-2E	01-12-2020	31-12-2022	85.55000
	Changes for CDEED TECTING at COO. C. 153 MDs are			
CCD 1272	Charges for CREEP TESTING at 600oC, 153 MPa on	02 04 2021	24 07 2022	10.66730
SSP 1272	St9ts (X10CrMoVNb9-1) material for 10000 hrs.	02-04-2021	31-07-2022	10.66720
	Transfer of Technological Know-How for the			
CCD 4272	extraction of Cu, Al and Au from waste PCBs (SSP-	42.00.2024	04 02 2022	4.4.75000
SSP 1273	1273)	12-08-2021	01-02-2023	14.75000
	Transfer of KNOW-HOW for the recovery of Co, Li			
CCD 4274	and Mn from Lithium-Ion Batteries (LIBs) with fine	04 06 2024	20 44 2022	4.4.75000
SSP 1274	tuning"	01-06-2021	30-11-2022	14.75000
	Development of non-magnetic Fe-Mn	04 07 0004	00 04 0000	22.452.40
SSP 1281	biodegradable alloys for biomedical applications	01-07-2021	03-01-2023	22.16040
CCD 4202	Study of mold flux-liquid steel interaction using	42 00 2024	24 07 2022	6 27200
SSP 1282	lifting hearth furnace	13-08-2021	31-07-2022	6.37200
	Lob Coole Ctudy on Deductine Astr County (A.C.			
	Lab Scale Study on Reducing Ash Content (Mineral			
CCD 4204	Matter) from Bhubaneswari Kaniha and Hingula	16 00 2021	45 44 2022	11 24247
SSP 1284	Coal through Oil Agglomeration (SSP 1284)	16-09-2021	15-11-2022	11.24347
CCD 1205	Failure analysis of Frant Ayla Bases (SSR 1395)	14 00 2024	14 00 2022	7 00000
SSP 1285	Failure analysis of Front Axle Beam (SSP-1285) Metallurgical Failure analysis of Railway wheel	14-09-2021	14-09-2022	7.08000
CCD 120C	, , ,	20 12 2021	24 42 2022	7 00000
SSP 1286	Disc (SSP 1286)	30-12-2021	31-12-2022	7.08000
	Synthetic Slag Treatment for Deciliognication of			
CCD 1207	Synthetic Slag Treatment for Desiliconisation of	00 10 2021	20 02 2022	0 05000
SSP 1287	High Carbon Ferrochrome in EAF (SSP 1287)	08-10-2021	28-02-2023	8.85000

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	Recovery of valuable metals from chromite ore			
	overburden by carbothermic smelting in electric			
SSP 1288	arc furnace	11-10-2021	10-10-2022	13.27500
331 1200	Pelletization of iron ore concentrate using an	11 10 2021	10 10 2022	13.27300
SSP 1289	organic binder	10-12-2021	31-07-2022	13.57000
33F 1269	Analysis and Upgradation of Subgrade iron ore	10-12-2021	31-07-2022	13.37000
CCD 1201	fines through Fluidized Bed Reduction with	01 11 2021	24 02 2022	20 60000
SSP 1291	separation (SSP 1291)	01-11-2021	31-03-2023	30.68000
	Development of Direct Community Communities for			
CCD 4204	Development of Rust Converter Composition for	04 02 2022	24 04 2022	F 00000
SSP 1294	Treatment of Rusted Steel	01-02-2022	31-01-2023	5.90000
	Studies on processing of iron ore sample for			44 00000
SSP 1295	beneficiation plant at AM/NS, Dabuna.	01-12-2021	31-05-2022	11.80000
	Feasibility study and development of a process for			
	optimisation of reductant blend to partially			
	replace coking coal for production of ferrochrome			
SSP 1297	(SSP 1297)	12-11-2021	11-03-2023	53.10000
	Generating Forming Limit Diagram (FLD) of			
	welded and non-welded aluminum sheets using			
SSP 1299	Nakajima Test	16-12-2021	31-03-2023	##########
	Transfer of Technology Knowhow for the			
	Magnetostrictive Sensing (MsS) Device for Pipe			
SSP 1300	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
	Refining of hot metal in MgO lined induction			
SSP 1303	furnace	06-01-2022	28-02-2023	21.24000
	Metallurgical investigation to explore the damage			
SSP 1304	mechanism of worn out quill shaft.	18-01-2022	17-01-2023	5.90000
	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			
SSP 1305	graphite.	23-03-2022	22-03-2023	17.70000
	Processing of hydrocyclone underflow of Zawar			
	grinding circuit towards recovery of silver through			
SSP 1307	advance gravity separator	01-04-2022	31-12-2022	16.52000
	Technology transfer for recycling lithium ion			
	batteries (LIBS) to recover saleable metal/salts of			
SSP 1309	Li, Co, Mn, Ni, Cu, Al, graphite and plastics.	01-04-2022	31-03-2023	17.70000
	Recovery of copper and nickel as salt/metal from			
SSP 1314	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

	Development of optimized methodology for hot			
SSP 1322	rolled TWIP steel plates (10mm thickness)	12-05-2022	31-03-2023	17.70000
	rones von steel places (2011111 timeliniess)		01 00 1010	27170000
	Transfer of technology for the Recovery of Li, Ni,			
SSP 1323	Mn, Co from Spent Lithium ion- batteries	01-05-2022	30-08-2022	0.00000
	Dephosphorisation of Hot Metal in an Induction			
SSP 1327	Fumace	10-06-2022	10-12-2022	5.90000
	Transfer of technology for FlawGuard: A device for			
SSP 1329	real time defect detection of high end wire	20-06-2022	19-12-2022	4.72000
	Studies on characterization and beneficiation of			
SSP 1330	low grade iron ore from SMIORE, Karnataka	01-08-2022	31-03-2023	25.96000
	Study of Iron Ore Tailing of GPIL using Column			
SSP 1331	Flotation	01-07-2022	31-03-2023	25.96000
	INVESTIGATION OF FFV SUPPLIED SPOTTED 84MM			
SSP 1340	RL MK-III BARREL	13-09-2022	12-03-2023	5.60500