

ONGOING PROJECTS OF CSIR-NML DURING APRIL 2020-TILL DATE

S.No.	Project.No.	Project Title	Start Date	End Date	Contract Value in
1	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	17.7
2	CLP 0206	Investigation on hydrogen trapping characteristics of precipitate/matrix interface in microalloyed steel.(CLP-0206)	01-05-2019	30-04-2021	50.74
3	CLP 0213	Effect of microstructure evolution in weld heat affected zone on fracture toughness and fatigue of API steel (X70 / X80) weld	01-06-2020	30-11-2021	23.954
4	CLP 0214	Replacement of bentonite with alternative binder for iron ore pelletization (Phase 1)	25-06-2020	31-08-2021	35.90917
5	CLP 0215	Optimization and performance evaluation of West Bokaro coking Coal washery Of Tata Steel through modelling and simulation	16-03-2020	30-08-2021	26.5304
6	CLP 0216	Optimisation of FBG sensors requirement for locating the critical zone of Blow pipe	19-03-2020	31-12-2021	18.762
7	CLP 0217	Temperature mapping of Down-comers of Pellet plant to identify the critical hot zone to avoid catastrophic failure	19-03-2020	30-06-2022	14.24732
8	CLP 0218	Sensor and device for on-line Zn weight measurement of GI wires	19-03-2020	31-12-2021	27.258
9	CLP 0221	Effective Utilization of Middlings and Fines of Coking Coal Washery for Recovery of	10-12-2021	29-12-2023	1
10	CNP 0135	Consultancy on design,erection and commissioning of flotation column at M/s Tata Steel, Belatinda Coal Preparation Plant	02-04-2019	31-03-2022	10.14446
11	CNP 0181	Development of Indigenous Technology for Production of sodium Metal at Commercial	08-08-2019	07-08-2021	188.8
12	CNP 0183	Consultancy on improvement in recovery and purity of zinc metal produced from	21-03-2021	31-05-2022	11.328
13	GAP 0265	Development & Fabrication of Cannon Liners for Explosive Testing	13-06-2017	31-03-2022	41
14	GAP 0267	Amorphous Electrical Steel (AES) for Energy Application	30-10-2017	29-10-2022	3634
15	GAP 0269	upscaling(to 10 tons per day) of red mud containing geopolymers paving blocks	17-01-2018	10-07-2021	104.48352
16	GAP 0271	TO develop an effective extraction and separation technology to selectively extract rare earth elements - Erbium (Er), Terbium (Tb), Europium (Eu), Praseodymium (Pr) Neodymium (Nd) and Dysprosium (Dy) from WEEE (Waste Electrical and Electronic Equipments)	08-05-2018	26-11-2021	46.71372

17	GAP 0272	Determination of Anisotropic Elastic Constants and Anisotropic Yield Parameters for Zr 2.5% Nb Pressure Tubes.	17-07-2018	30-09-2021	24.7236
18	GAP 0273	Development of Magnetostrictive Sensing Device for Structural Integrity Evaluation of	25-10-2018	24-10-2021	49.896
19	GAP 0274	High Temperature Oxidation and Hot Corrosion behavior of selected materials for Clean Coal Technologies for Power Plant	01-11-2018	30-09-2022	138.492
20	GAP 0275	Creep-fatigue interaction behavior of ODS-austenitic steels and ODS-iron and nickel	01-11-2018	25-09-2022	295.594
21	GAP 0276	Development of Advanced NDE based Diagnosis and Prognosis Protocols for A-USC	01-11-2018	25-09-2022	209.75
22	GAP 0279	Preparation of Detailed Project Report(DPR) for technological intervention through Technology Facility Centre(TFC) at five numbers of Bell and Brass metal clusters of	01-02-2019	31-03-2022	31.25
23	GAP 0280	Development of a process for refining of commercial magnesium Metal through	11-09-2019	30-09-2021	17.63
24	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	31-03-2022	106.35
25	GAP 0282	Structural engineering into 3D macroscopic architecture with hierarchical porosity for real application of energy storage devices	01-04-2020	01-04-2023	21
26	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	4909435
27	GAP 0284	Management and operation of CSIR-NML Intellectual Property Facilitation Centre	01-08-2020	31-07-2025	100
28	GAP 0285	Hot stage engineering of copper smelter slag for recovery of iron and subsequent use of resulting slag in blended cement	15-10-2020	14-10-2023	83.90639
29	GAP 0286	Effect of processing parameters on cryo impact properties of cast alloys	26-03-2021	25-03-2023	30.12
30	GAP 0287	Investigation of creep crack growth rate and damage micro-mechanism of new generation high temperature material	06-02-2021	06-02-2023	21.312
31	GAP 0288	Women Technology Park (WTP) for capacity building and entrepreneurship development	17-07-2021	16-07-2024	52.60654
32	GAP 0289	Development of simple, cost-effective and scalable spray drying based synthetic strategy for inorganic nanostructured	17-07-2021	16-07-2024	24.62048
33	HCP 0036	(HCP 0036) Replacement of Toxic Cadmium Coatings by Electrodeposited Al/Zn-Mn Coatings on High Strength Steels	28-01-2021	27-01-2024	76.94
34	HCP 0101	CSIR-Virtual laboratory for school students	03-12-2020	31-03-2022	20.4

35	HCP0028WP1	Bulk Chemicals: WP-1 Production of Lithium from Ores(HCP0028WP1)	01-04-2020	30-09-2021	60
36	HCP0028WP2	Extraction of critical metals from used Li ion Batteries	15-06-2020	31-03-2022	209.44
37	HCP0030WP	Multi-Component ZR base biocompatible	01-07-2020	30-06-2023	145.69
38	HCP030WP1	Development of Mg/Zn based biodegradable implants for orthopaedic	01-08-2020	31-07-2023	125.11
39	HCP28WP1	Bulk Chemical: WP-1 Production of lithium from ores.	01-04-2020	30-09-2021	60
40	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	30-09-2021	50
41	MLP 3113	Production of Fe-Ni/Co-Mo metallic alloy & alumina rich slag from Ni-Mo/Co-Mo	01-04-2020	31-03-2022	100
42	MLP 3114	Development and commercialization of Eco-friendly reagents for limestone and	01-04-2020	30-09-2021	64.5
43	MLP 3115	Development of CS Analytical and Charpy Impact Toughness Physical Standard (CRM)	11-08-2020	31-03-2022	99.4
44	MLP 3116	Development of close loop process for the recycling of metals/materials from e-waste	01-04-2020	30-09-2021	147.27
45	MLP 3118	Development of fire resistant lightweight structural materials by hybridization of inorganic-organic polymers (MLP 3118)	01-09-2020	31-03-2022	40
46	MLP 3119	Process development of high quality layered transition metal carbides/nitrides/carbonitrides (MAX)	01-04-2020	31-03-2022	50
47	MLP 3120	Development of Tin-Selenide (SnSe) based thermoelectric thin films for waste heat recovery in metallurgical and other	01-04-2020	31-03-2022	70
48	MLP 3121	Development of dry beneficiation process technology for low grade iron ore for iron and steel making	01-04-2020	31-03-2022	60
49	MLP 3122	Big Data Assimilation and Synthesis for material creep degradation.	01-04-2020	31-03-2022	30
50	MLP 3123	Thermodynamic and kinetic assessment of interfacial equilibrium conditions in multi-component based bulk nano-pearlitic steels.	01-09-2020	31-03-2022	40
51	MLP 3124	Development of high ballistic strength armour steel with 2 GPa tensile strength and min 50MPam ^{1/2} fracture toughness.	01-04-2020	31-03-2022	80
52	MLP 3125	Preparation of Coke from non-coking coal	01-04-2020	31-03-2022	30
53	NWP 0100	CSIR Integrated Skill Training Initiative of	01-04-2020	31-03-2025	315.5
54	NWP 100	(NWP 100)CSIR Integrated Skill Training Initiative of CSIR-NML	01-04-2020	31-03-2025	395.75
55	OLP 0345	Development of Low Carbon Bainitic Steels (Module-I)(Module II)(Module III)	01-04-2018	31-05-2021	6.65

56	OLP 0346	Microstructural evolution and deformation behaviour of high entropy alloys at ambient and sub-ambient temperatures (Module 1)	01-04-2018	30-05-2021	3.5
57	OLP 0352	High Temperature Crack Growth of Cr-Mo	01-10-2018	15-10-2021	7.675
58	OLP 0353	Development of carbon based filler immobilized mixed matrix membrane for separation of Heavy Toxic Metals (Focus on Nuclear metals) from dilute effluent/leach	01-10-2018	15-10-2021	3.3
59	OLP 0354	Development of inorganic-organic hybrid geopolymers (Module-I)(Module II)	01-10-2018	15-10-2021	2
60	OLP 0355	Rational Design of Solvent System: A Novel Approach for Recycling Metals from leach solution of Cathode Materials of Lithium-ion Batteries by Solvent extraction.(Module I: Studies on physico-chemical behavior of amines (pri,sec,tert and quert amines)and organophoric compounds (Phosphoric,phosponic and phosphinic acids) for the solvent extraction and separation of Li-Co-Ni and Mn)	01-10-2018	30-09-2021	3.52
61	OLP 0369	Scaling up of the process for the production of iron powder from waste iron oxide fines/slimes using hydrogen gas /natural gas	16-10-2019	31-03-2022	3.8
62	OLP 0372	Development of melting-casting facilities and optimization of melting & casting parameters for 3rd generation Al-Li alloys.	01-12-2019	31-03-2022	12.3
63	OLP 0374	Characterization of microbubbles and its subsequent application in fine particle	01-06-2020	31-05-2021	6.65
64	OLP 0378	characterization, Benefication and coke formation studies on low volatile coking coal for metallurgical utility (Module I)	01-06-2020	30-05-2021	0.75
65	OLP 0379	Studies on stability and processing of face centred cubic Titanium (Module I)	01-06-2020	30-05-2021	0.8
66	OLP 0380	precipitation hardened compositionally complex alloys (module I)	01-06-2020	31-05-2021	1.6
67	OLP 0381	Effect of Electrode Composition on the Mechanical and Corrosion Behaviour of Welded Duplex Stainless Steel in Corrosive	01-06-2020	31-05-2021	11
68	OLP 0382	Effect of deformation induced martensite and dislocation density on the hydrogen permeation and hydrogen embrittlement of	16-10-2020	15-10-2021	0.7
69	OLP 0383	Discerning the individual and synergistic effect of carbide inhibitors on austenite retention and stability in medium manganese advanced high strength steels.	16-10-2020	15-10-2021	2.25
70	OLP 0385	Understanding the phenomenon and enhancement of Anti-icing properties of	16-10-2020	15-10-2021	8.8

71	OLP 0386	The behaviour of mould flux for high AL steels during the continuous casting process. (Module I and Module II)	16-10-2020	15-10-2022	5.03
72	OLP 0387	Extraction and recovery of copper from lean grade chalcopyrite	01-10-2020	30-09-2021	5.354
73	OLP 0388	Study of Amorphous magnetic alloy flakes for Microwave Absorbing Materials (2-	01-06-2021	30-11-2021	0.95
74	OLP 0390	Mitigation of galvanizability of steel surface through adoption of sol-gel pre-coating and improvement in corrosion resistance of galvanizing coating through post	01-06-2021	31-03-2022	5.2
75	OLP 0391	Designing of magneto-plasmonic graphene material and its multimodal application	01-06-2021	31-03-2022	1
76	OLP 0393	Investigations on the NMLS retort technology for magnesium metal production	15-06-2021	31-03-2022	9.3
77	OLP 0394	Synthesis and Development of Al-Si-Cu-N Nanocomposite Coatings for Antibacterial Applications	01-06-2021	31-03-2022	1.85
78	OLP 0395	Decarburization of high carbon ferroalloys by CO2 treatment	01-11-2021	30-09-2022	5.3
79	OLP 0396	Production of iron powder/iron nugget from industrial waste by the process of segregation roasting	01-11-2021	30-04-2022	0.8
80	OLP 0397	Feasibility study on producing DRI from lumps by using Hydrogen	01-11-2021	30-09-2022	1
81	OLP 0398	Processing of Glassy Metal Powders through Gas Atomization for Additive Manufacturing	01-10-2021	30-09-2022	3.55
82	OLP 0399	Enhancement of molten salt corrosion resistance of thermal energy storage materials in a concentrated solar power	01-11-2021	30-09-2022	9.3
83	OLP 0400	Development of a hybrid centrifugal separator for application in mineral	01-11-2021	30-09-2022	5
84	OLP 0401	Investigate NML developed furnace compatibility with IIP bio-pellets	01-10-2021	31-03-2022	2.5
85	OLP 0402	Development of electromagnetic sensor for real time health monitoring of structural components exposed to High-temperature	01-11-2021	30-09-2022	1
86	OLP 0403	A study on hydrodynamics characteristics in separation of minerals in a monolithic flotation column (Module-I)	01-11-2021	30-09-2022	2.7
87	OLP 0404	Flow Accelerated Pipeline Corrosion (Module-I): Probing the FAC mechanisms of API 5L grade steels through gravimetric and different electrochemical techniques	01-11-2021	30-09-2022	5.55
88	OLP 0405	Evaluation of mechanical property across fusion boundaries of dissimilar metal welds materials using ball indentation technique and co-relate with microstructural	01-11-2021	30-09-2022	1

89	OLP 0407	Oxidation and hot corrosion behaviour studies of Amed Inconel 625 & Inconel 718	01-11-2021	30-09-2022	6.8
90	OLP 0408	UPSACALING OF AN ENERGY EFFICIENT PROCESS FOR THE RECOVERY OF METAL VALUE FROM SPENT NdFeB MAGNETS	01-11-2021	30-09-2022	6.3
91	OLPR 0017	E-ProjectView-One Window for Profiling all Project related Information (Phase I)	01-01-2020	30-09-2021	9.85
92	SSP 0997	Metallurgical and Fractographic Examination of the SS304LN and Its Weld Tested Under Cyclic and Monotonic Loading in Air/Water	01-11-2015	31-12-2021	41.678
93	SSP 1094	Metallurgical failure Investigation of boiler tubes of captive thermal power plants from Hindustan Zinc Limited, Rajasthan	18-03-2021	17-04-2022	7.32
94	SSP 1096	Feasibility studies on flotation of High-Magnesia limestone from Maharashtra	27-12-2021	26-10-2022	17.7
95	SSP 1097	Feasibility studies on flotation of high-Silica limestone from Rajasthan	01-12-2021	30-09-2022	17.7
96	SSP 1112	Patent Search and analytics service to tata	01-02-2018	31-12-2021	35.4
97	SSP 1126	AUSC-5 Evaluation of fracture and fatigue crack growth (FCG) in 10Cr- Alloy 617 BMW	31-03-2018	30-09-2021	531
98	SSP 1127	AUSC-6 Evaluation of fracture and fatigue crack growth (FCG) behaviour of SS304 Hcu	31-03-2018	31-12-2021	531
99	SSP 1130	Effect of creep fatigue interation on Disc	01-01-2018	09-01-2022	95.075
100	SSP 1138	Seam overall characteristics of coal sample of Asansol coalfields.	01-04-2018	31-03-2023	116.64948
101	SSP 1140	AUSC 7:Advanced Non-destructive Evaluation techniques for Creep Damage Evaluation of AUSC power power plant materials.	01-04-2018	31-12-2021	281.1586
102	SSP 1147	Twinning on Capacity Building to Transform Metal Industry Development Institute (MIDI)	01-04-2018	31-03-2022	883.75
103	SSP 1148	Sample collection and analysis for determination of quality/grade of slurry/rejects and washed coal powder	01-07-2018	30-06-2023	144.95894
104	SSP 1157	Electronic packages for ultrasonic flow meter for on-board propellant gauging of	01-09-2018	31-03-2022	49.7252
105	SSP 1163	Microstructural and mechanical property evaluation of new and used CBC	10-09-2018	31-10-2021	55.165
106	SSP 1165	Coal Characterization of different mines of	20-01-2019	31-03-2022	136.69998
107	SSP 1171	Characterization of BCCL Coal Mines	15-12-2018	14-11-2023	185.3
108	SSP 1172	Seam overall characteristics of coal sample of Charina & Ghogdarpalli block, Sohagpur	01-04-2019	31-03-2023	119.99999
109	SSP 1173	Development of high strength Zn-based biodegradable alloys for orthopedic	01-12-2018	31-05-2021	23.718
110	SSP 1176	Extraction of rare earth elements from granulated blast furnace slag and evaluation of treated material for possible applications	01-01-2019	31-10-2021	37.76

111	SSP 1184	Investigations of Fracture and Fatigue Crack Growth Rate Behaviour of Aero Engine Fan Disk of Ti-6Al-4V Alloy	04-02-2019	03-02-2022	95.96383
112	SSP 1186	Characterization of Ores, Minerals, Fluxes, granulated BF slag, LD slag, Fe alloy Slag and Fly ash" in terms of chemical composites on, phase analysis, optical & thermal properties	01-04-2019	30-09-2021	41.3
113	SSP 1191	Study on Gross Caloric Value in different coal mines of BCCL Dhanbad	29-04-2020	31-03-2022	43.14788
114	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	31-03-2022	197.99978
115	SSP 1201	Coal Characteristics of Central Coalfields Ltd.	22-05-2019	31-10-2021	58.48463
116	SSP 1205	Evaluation of Grade of SECL mines	01-04-2021	31-03-2024	91.804
117	SSP 1206	Chemical Characterisation for the grade declaration of Eastern Coalfields Limited	10-09-2019	31-12-2021	120.000002
118	SSP 1207	Coal Characterisation of Singareni collieries Dhanbad.	11-11-2019	30-11-2021	23.99998
119	SSP 1208	Coal Characterisation of BCCL Collieries	01-04-2020	30-04-2022	33.99999
120	SSP 1210	Development of Rapidly Quenched Fe-based Glassy Ribbons for Evaluation of Hydrogen Permeation (SSP-1210)	19-07-2019	30-11-2021	15.34
121	SSP 1218	Coal Characterization of Assansol and Singrauli Coalfield of India(SSP-1218)	07-02-2020	31-12-2022	120.000001
122	SSP 1219	Study on reducibility index of iron ore pellet	26-09-2019	30-09-2021	10.1952
123	SSP 1223	To explore product development from waste alumino-silicate fibre material	20-12-2019	19-06-2021	23.6
124	SSP 1225	Development of thicker section (> 6 mm) abrasion resistance grade steel with relatively higher coiling temperature	11-12-2019	11-07-2021	34.22
125	SSP 1227	Cold Rolling and Annealing of High strength Low Alloy Steel"	10-02-2020	09-02-2022	32.45
126	SSP 1229	Assessment of Cr-Mo steel welding joints by NDE methods	07-01-2020	06-10-2021	11.8
127	SSP 1230	Cold bonding test work for coke dust	15-01-2020	31-01-2022	18.27336
128	SSP 1236	Coal Quality Assessment of Maharashtra State Power Generation company Ltd.(SSP-	23-11-2020	23-11-2023	79.66116
129	SSP 1237	XRF and ICP-MS analysis of NGCM samples	01-07-2020	30-06-2023	107.1204
130	SSP 1240	Development of Briquetting technique for utilization of Steel plant solid waste (Phase	01-03-2020	31-12-2021	37.16988
131	SSP 1244	De-Siliconization of High Silicon Ferro Chrome in 50 kVA EAF	28-02-2020	31-12-2021	8.85

132	SSP 1246	Technology for Process Improvement in Degreasing, Brightening & Passivation Process of Cartridge Case manufacturing of 7.62mm M-80, 7.62mm A-7, 5.56mm & 12.7mm SA Ammunition and process improvement in cleaning & polishing operation of 5.56mm Bullet manufacturing	01-06-2020	31-12-2021	17.7
133	SSP 1249	Mechanical and micro-structure assessment of Centre Buffer Coupler (CBC)	04-08-2020	03-11-2021	20.06
134	SSP 1250	Studies on beneficiation of bauxite samples from Chattisgarh region.	22-07-2020	31-01-2022	69.0064
135	SSP 1251	Metallurgical failure investigation of penstock steel of UHL-III HEP	04-08-2020	03-02-2022	15
136	SSP 1252	Geopolymerization for Radioactive Waste Immobilization	01-09-2020	31-08-2022	49.44672
137	SSP 1254	Condenser tube deposit analysis and cleaning process	10-09-2020	30-05-2022	6.018
138	SSP 1255	Continuous pilot scale reverse flotation of 15 tons iron ore (SSP 1255)	02-11-2020	28-02-2022	31.86
139	SSP 1256	Process feasibility for utilisation of low-grade iron ore and slime in shaft based DRI	03-11-2020	31-12-2021	35.34985
140	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	30-09-2021	36.108
141	SSP 1258	Design and fabrication of FlawGuard Veril for defect characterisation and detection	01-12-2020	31-03-2022	9.44
142	SSP 1259	Roasting and Hydrometallurgical Processing of Coal Slag	01-12-2020	28-02-2022	95
143	SSP 1260	Smelting of Vanadium pentoxide for Preparation of Ferro-vanadium (FeV) (SSP	01-12-2020	28-02-2022	50
144	SSP 1261	Grade Declaration of Referee Samples of CCL Area (SSP 1261)	14-12-2021	14-12-2023	74.41881
145	SSP 1262	Evaluation and Characterisation of band by band coal analysis of Asansol Coalfields	01-04-2021	30-04-2025	50.0025
146	SSP 1263	Preparation of Detailed Project Report (DPR) for Jafarnagar Silver Cluster Nadia West	01-12-2020	28-02-2022	8.85
147	SSP 1264	Studies on cyclic corrosion behaviour of coated steel samples	27-11-2020	31-01-2022	6.844002
148	SSP 1266	Evaluation of grade of SECL mines	15-12-2021	31-03-2025	10.17201
149	SSP 1267	FATIGUE BEHAVIOUR OF PRIMARY PIPING/VESSEL MATERIALS IN INDIAN NPPS UNDER MULTI AXIAL CONDITIONS (SSP	11-02-2021	10-02-2023	44.486
150	SSP 1268	Dry beneficiation of limestone samples for removal of iron bearing and other magnetic	15-02-2021	14-08-2022	23.6
151	SSP 1269	Failure Analysis of Hydrogen Generation Unit-3 (HGU-3) Reformer Tube (SSP 1269)	22-02-2021	31-03-2022	11.9652
152	SSP 1270	Residual Life Assessment of Crude and Vacuum heater tubes (SSP 1270)	01-04-2021	31-12-2022	22.0424

153	SSP 1271	Material Analysis and Reclamation of Gas Collector for GTG-1250-2E	01-12-2020	31-03-2022	85.55
154	SSP 1272	Charges for CREEP TESTING at 600oC, 153 MPa on St9ts (X10CrMoVNb9-1) material for	02-04-2021	31-07-2022	10.6672
155	SSP 1273	Transfer of Technological Know-How for the extraction of Cu, Al and Au from waste PCBs (SSP-1273)	12-08-2021	01-08-2022	14.75
156	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	31-05-2022	14.75
157	SSP 1275	Thermo-Mechanical Processing and Cold Rolling of Medium carbon High Manganese	01-04-2021	31-03-2023	15.59842
158	SSP 1276	Evaluation of Binders Properties for	01-06-2021	31-12-2021	13.57
159	SSP 1277	Development of graphene-based epoxy paint for marine application	23-07-2021	31-03-2022	8.26
160	SSP 1278	Study on slag metal interaction in induction	02-06-2021	31-12-2021	6.254
161	SSP 1279	SSP 1279) Root cause analysis of breakage of runner bucket of unit#1	17-03-2021	31-03-2022	14.75
162	SSP 1280	Evaluation of used centre buffer coupler	08-06-2021	07-06-2022	20.06
163	SSP 1282	Study of mold flux-liquid steel interaction using lifting hearth furnace	13-08-2021	12-01-2022	6.372
164	SSP 1284	Lab Scale Study on Reducing Ash Content (Mineral Matter) from Bhubaneswari Kaniha and Hingula Coal through Oil Agglomeration	16-09-2021	15-11-2022	11.24347
165	SSP 1285	Failure analysis of Front Axle Beam (SSP-	14-09-2021	14-09-2022	1
166	SSP 1287	Synthetic Slag Treatment for Desilicisation of High Carbon Ferrochrome in EAF (SSP	08-10-2021	07-10-2022	1
167	SSP 1288	Recovery of valuable metals from chromite ore overburden by carbothermic smelting in electric arc furnace	11-10-2021	10-10-2022	13.275
168	SSP 1289	Pelletization of iron ore concentrate using an organic binder	10-12-2021	31-07-2022	13.57
169	SSP 1290	Corrosion behaviour of different rail steels in varied environments (SSP 1290)	03-08-2021	31-07-2022	29.5
170	SSP 1291	Analysis and Upgradation of Subgrade iron ore fines through Fluidized Bed Reduction with separation (SSP 1291)	01-11-2021	31-07-2022	30.68
171	SSP 1295	Studies on processing of iron ore sample for beneficiation plant at AM/NS, Dabuna.	01-12-2021	31-05-2022	11.8
172	SSP 1299	Generating Forming Limit Diagram (FLD) of welded and non-welded aluminum sheets using Nakajima Test	16-12-2021	31-08-2022	590000
173	STS 0002	Testing & Analytical Services of MNP	01-04-2010	31-03-2022	1
174	STS 0030	Patent Research Analytics Services	20-07-2020	20-07-2025	1