

[A] Thematic Research: Completed/On-going and New Proposals

Sl. No.	Project No.	Status	Title of the project	PL	Start date	Completion date	Review date
1.	OLP-0318	Completed	Modelling and Simulation of non- conventional superimposed multi-force mineral separator	G. Chalavadi	01-06-17	28-02-19	10.04.2019
2.	OLP-0319	Completed	Simulation of thin strip casting	G.K. Mandal	01-06-17	31-03-19	10.04.2019
3.	OLP-0341	Completed	Effect of build direction on properties of metallic components produced by direct digital manufacturing (3D metal printing) technique	K. Gopala Krishna	16-04-18	15-04-19	10.04.2019
4.	OLP-0342	Completed	A process development for production of glass-ceramics products from metallurgical slags	Ammasi A.	16-04-18	15-04-19	10.04.2019
5.	OLP-0343	Completed	Design and optimization study of flotation process using modelling and simulation analysis	K. Hembrom	16-04-18	15-04-19	10.04.2019
6.	OLP-0344	Completed	Synthesis of dry geopolymer cement using industrial by-products and waste	S. K. Nath	16-04-18	15-04-19	10.04.2019
7.	OLP-0350	On-going	Phase field modelling of microstructure evolution of steel during deformation processing	Sheuli Hore	01-10-18	30-09-19	10.04.2019
8.	OLP-0351	On-going	Estimation of various micro-structures and crystal dislocations during thermal and mechanical processing of steel: a molecular dynamics simulation investigation.	Sunil Kumar	01-10-18	30-09-19	10.04.2019
9.		New	Graphene based high strength steel: Can graphene effectively block the dislocation movement	Joy Chakraborti	16-04-19	15-04-20	10.04.2019
10.		New	Enhancement of wear, abrasion and corrosion resistance through friction stir processed ceramic particle reinforce magnesium AZ 31 alloy	MM Husain	16-04-19	15-04-20	10.04.2019
11.		New	Beneficiation of tribocharged particles on multiproperty separator	G. Chalavadi	16-04-19	15-04-20	10.04.2019
12.		New	Study on effect of coal maceral on plastic behavior of different coking coal	Mamata Sharma	16-04-19	15-04-20	10.04.2019

[B]Technology Development: Completed/On-going and New Proposals

Sl. No.	Project No	Status	Title of the project	PL	Start date	Completion date	Review date
1.	OLP-0331	Completed	Energy efficient Coke based brass melting furnace for the artisans of West Bengal and Odisha	N. Halдар	01-10-17	31-03-19	10.04.2019
2.	OLP-0333	Completed	Modeling and optimization of water cooled copper drum channel of melt spinning technique for the production of amorphous alloys	Y. Usha	16-04-18	15-03-19	10.04.2019
3.	OLP-0334	Completed	Graphene supercapacitor with energy density close to Li-ion battery	R.K. Sahu	16-04-18	15-03-19	10.04.2019
4.	OLP-0337	Completed	Development of indigenous air stratifier for dry beneficiation	G. Chalavadi	16-04-2018	15-12-18	11.04.2019
5.	OLP-0339	Completed	IoT for high temperature processes in a hazardous environment in steel making	S. Sagar	16-04-18	15-12-18	11.04.2019
6.		New	Energy efficient coal and oil based brass melting furnace for the artisans of West Bengal	N. Halдар	16-04-19	15-04-2020	11.04.2019
7.		New	Development of process on 2 kg scale for production of synthetic rutile from ilmenite	S. Prasad	16-04-19	15-10-2019	11.04.2019

[c] Scholastic Research: Completed and New Proposals

Sl. No.	Project No	Status	Title of the project	PL	Start date	Completion date	Review date
1.	OLP-0255	Completed	Thermo -mechanical processing parameters on microstructures and hot deformation behaviour of molybdenum added low carbon micro alloyed steel (Module-IV)	A.P. Murugesan	16-04-18	15-04-19	11.04.2019
2.	OLP-0256	Completed	Control & Analysis of Inclusions in Electrical Steel (Module-IV)	Ashok K.	16-04-18	15-04-19	11.04.2019

April, 2019

3.	OLP-0285	Completed	Scientific Investigation on Hydro and Electro-chemical dissolution of scrap magnets of wind turbines for the recovery of rare earth metals and other valuable products (Module-III)	Aarti Kumari	16-04-18	15-04-19	11.04.2019
4.	OLP-0287	Completed	Effect of oxygen partial pressure on induration behaviors of carbon added iron oxide pellets and burning behaviour of carbon (different origin) in pellets (Module-III)	Ammasi A.	16-04-18	15-04-19	11.04.2019
5.	OLP-0311	Completed & New	Study of Particulate Flow in Centrifugal Force Field with Continuous Fluid Current (Module-II) & Module III-New proposal	Ranjit Kumar Singh	16-04-18	15-04-19	11.04.2019
6.	OLP-0312	Completed & New	Heat transfer modeling of condensation behavior of metal (Mg) vapours during distillation for quantitative analysis of condenser design (Module-II) & Module III-New proposal	Krishna Kumar	16-04-18	15-04-19	11.04.2019
7.	OLP-0345	Completed & New	Development of Low Carbon Bainitic Steels (Module-I) & Module II-New proposal	Gaurav Kr. Bansal	16-04-18	15-04-19	11.04.2019
8.	OLP-0346	Completed & New	Microstructural evolution and deformation behavior of high entropy alloys at ambient and sub-ambient and sub-ambient temperatures (Module-I) & Module II-New proposal	Avanish Kr. Chandan	16-04-18	15-04-19	11.04.2019
9.	OLP-0347	Completed & New	Study of dewatering behaviour of fine particles in hydrocyclone (Module-I) & Module II-New proposal	Sunati Mohanty	16-04-18	15-04-19	11.04.2019
10.	OLP-0348	Completed	Textural, mineralogical and geochemical constraints of the low grade iron ore and fines of Odisha- Jharkhand sector around Barbil: Scientific interest and industrial concern	Paromita Biswas	16-04-18	15-04-19	11.04.2019
11.	OLP-0349	Completed & New	Hydrogen assisted degradation and fracture in pipeline steel (Module-I) & Module II-New proposal	Swapna Dey	16-04-18	15-04-19	11.04.2019
12.		New	Development of high efficiency Tin Selenide based Thermoelectric and optically tunable coatings for alternative energy harvesting from different industrial applications (Module I).	Komal Singh	16-04-19	15-04-20	11.04.2019