Deal all, please furnish the COPI information and please
specify the purchy Azerey like which DRDO, which scheme of DST
The information will help us to update our department website.

Ongoing Projects
Thouse. Suprodupy of DSL.

S. No	Project Title	Project Investigator (s)	Funding Agency	Sanction ed Amount (Lakhs)	Perio d	
24	Process and hybrid tool design for higher productivity in FSW butt-joints of thick Al-alloy 2219 plates	Prof. Jeevan Jaidi	DRDO- ARDB	33.116	2021-	cs-12:
4	Investigation on dynamic deformation behaviour of Tungsten Heavy Alloys (WHAs) for defence applications	Dr. Nitin Kotkunde	ARMERB DRDO?	40.74	2021-	prof.
18	Development of mesoporous materials with enhanced hydrogen uptake for fuel cell vehicles	Prof. Sujith R	DST SERB CRG	29.13 -25.67	2021-	000
h	IoT enabled wearable nasal cap for air filter, viral guard and sensors for early detection of Covid-19 symptoms	Dr. SK Dubey	DST - BDTD	20.15	2021-	2
21	Enhancement of Mechanical Properties and Forming Behavior of AZ31 Alloy using Shear Deformation Techniques for Automotive and Aerospace Applications	Dr. Nitin R Kotkunde	DST SERB CRG	26.66	2021-	
20)	Comparison of external and internal pressures in tornado-like flow obtained using different simulators world-wide	Prof. Sabareesh G R	TPU Wind Engineeri ng	24.75	2021-	
19	Enhanced Strength-to-weight Ratio INCONEL-718 Alloy Structures Made by Additive Manufacturing for Aerospace Applications	Prof. SP Regalla	DST SERB CRG	25.34	2021-	D) C
18	Real time Investigation of various analyses using droplet microfluidics integrated with high-speed vision	Dr. Arshad Javed	NSM R and D -HPC	21.22	2021-	Dr. S.
17	Simulation and analysis of cellular materials against blast loading	Prof. NSK Reddy	DRDO	9.77	2021-22	20
16	Development of heterogeneous MPI-CUDA based parallel 3D fluid-structure solver	Dr. Pardha S Gurugubelli	Nvidia	16	2021-	LOR
15	Machine Vision based Adaptive Quality Assurance System for Aerospace Vehicle Assembly Unit	Prof. SS Deshmukh	DRDO	39.07		CO-1
13	Theoretical and simulation based approaches to determine the forming limit diagrams of Ti-6AI-4V at elevated temperatures	Dr. Kurra Suresh	DRDO - ARDB	15.5	2020-	1
13	3D printing of graphene nanocomposites for energy storage applications	Dr. Pavan Kumar P	DS T SERB- ECR	24	2019-	- 2
12	Experimental Investigation on an Energy Efficient Thermal Management Technique for Hybrid Electric Vehicles (HEV)	Dr. SP Datta	SERB- ECR	27.94	2019-	
11)	A Solar Assisted Combined Cooling, Heating and Power Plant: An Alternate Rural Energy Source	Dr. SP Datta	DST	38.5	2019-	
10	Harvesting energy from underwater ocean currents through coupled vortex-induced vibration, flapping dynamics, electromagnetic induction and	Dr. I dreite	SERB- SRG	27.36	2019-	

S	ully Integrated Smartphone and IoT enabled licrofluidic Sensor for Real-time Quantification of oil Macronutrients	Dr. SK Dubey	DST	19:78	2019-
9	Cardiac-Organ-on-Chip: Integrated Microfluidic Cardiac Platform for Drug Screening and Toxicity Detection.	(COPE) Dr. SK Dubey	BDTD -DST	47.36	2019-
7/10	Machinability assessment and material characterization of Tungsten Heavy Alloy used in defense applications as KE penetrators	Prof. Amrita Priyadarshini	ARMREB (DRDO)	6.80	2019-
6)	Solid state electrolytes for Lithium-ion batteries	Prof. Sujith R	Power Systems Ltd	14.75	2019-
Cart	Automation of Sample Preparation Process for Pharmaceutical Application	(PI) Prof .YVD Rao	Pharma	15.48	2019-
4	Benchmark Studies On Tornado Induced Wind Loads Between Different Tornado Simulators Worldwide	1.1911	TPU-JURC	27	2019-
3	Sustainable technology solutions for energy efficiency in the japery industry	Prof. M. Srinivas	Royal Academy UK	48	2018-
(2)	Studies on wind resistant design for proposed LIGO INDIA OBSERVATORY	Prof. Sabareesh GR	IUCAA	44.81	2018-21
0	Development of image processing based portable device to measure surface strains in sheet meta forming	Suresh	DST- PDP	18.137	2018-
X	device to measure surface strains in sheet meta	Suresh		18.137	
X	Development Studies on evalua of Paint for composite Substra mpleted Projects Project Title	Project Investigator (s)	PDP DRDO- CARS Funding Agency	Sanction ed Amount (Lakhs)	21 2021- 22 Perio d
Co S.	Development Studies on evalua of Paint for composite Substra mpleted Projects Project Title	Project Investigator	PDP DRDO- CARS Funding Agency DRDO, CAS_CARS	Sanction ed Amount (Lakhs)	21 2021- 22 Perio d
Co S.	Development Studies on evaluated for Composite Substrant Projects Project Title Design and development of an automated flow calibration system for fuel and oxidizer injectors	Project Investigator (s) Sabareesh GR	PDP DRDO- CARS Funding Agency DRDO, CAS_CARS	Sanction ed Amount (Lakhs)	2018- 2020 2018- 2020
Co S.	Development Studies on evaluate of faint for composite Substransipleted Projects Project Title Design and development of an automated flow calibration system for fuel and oxidizer injectors reaction control system. "Design and development of an automated flow calibration system for fuel and oxidizer injectors reaction system for fuel and oxidizer injectors."	Project Investigator (s) Prof. Sabareesh GR Supredorates Prof. SS Deshmukh Dr. Arshad	PDP DRDO- CARS Funding Agency DRDO, CAS_CARS	Sanction ed Amount (Lakhs)	2018- 2018- 2018- 2018-
Co S.	Development Studies on evalua of Paint for Composite Substraint for Composite Substraint Title Design and development of an automated flow calibration system for fuel and oxidizer injectors reaction control system. *Design and development of an automated flow calibration system for fuel and oxidizer injectors reaction control system.	Project Investigator (s) Prof. Sabareesh GR Supredorates Prof. SS Deshmukh Dr. Arshad	PDP DRDO- CARS Funding Agency DRDO, CAS_CARS DRDO, CAS BIRAC	Sanction ed Amount (Lakhs)	2018- 2018-
Co S.	Development Studies on evalua Of Paint for Composite Substra Impleted Projects Project Title Design and development of an automated flow calibration system for fuel and oxidizer injectors reaction control system. "Design and development of an automated flow calibration system for fuel and oxidizer injectors reaction control system Automated Ultraviolet-C Sterilization Robot Cryogenically-conditioned micro and Nano encapsulated phase change material slurries for	Project Investigator (s) Prof. Sabareesh GR Supredorated Prof. SS Deshmukh Dr. Arshad Javed Prof. R. Parameshwara	PDP DRDO- CARS Funding Agency DRDO, CAS DRDO, CAS BIRAC Soch DST-SERB	Sanction ed Amount (Lakhs)	21 2021- 22 Perio d 2018- 2020 2018- 2018- 2018- 2017-

No	vel casting approach to improve quality of iminum alloy casting	Prof. NSK Reddy	DRDL, DRDO	9.85	2017-	
3 su	udy of lubrication method for enhanced rface finish and reduced draw load on cold aw steel tubes	Prof. A. K. Gupta (Co-PI), Prof. S. P. Regalla (Co-PI)	Tubes Investment India Ltd.	27.5	2017-	
	evelopment of meta material base support for olating vibration	Prof. Sabareesh GR	DMDE, DRDO	13.8	2017- 18	PAR.
62	odelling and simulation of quartz ccelerometer for navigation system	Dr. SK Dubey	RCI, DRDO	5.3	2017-	Drut S Dr. A Prot. A
Day 1	evelopment of portal for power curve uarantee test	Dr. Sabareesh G. R	Mytrah Energy limited	2.97	ZUL/	C-PI Dr. Ar
VAL 1	Development of portal for re-analysis data and ong term correlation with wind data	Dr. Sabareesh G. R (Co PI)	Mytrah Energy limited	2.97	2017 Jan- April	PI:
23 6	chancement of mechanical properties of Ti- SAI-4V using constrained groove pressing and heat treatment	Prof. AK Gupta	ARMREB (DRDO)	48.22	2016-	
//	Hydrogen storage in mesoporous polymer derived ceramics for automotive application	Dr. Sujith R.	DST	42.38	2016- 19- 2	Pro
21	Studies on remaining useful life prediction considering multi-component failures in a wind turbine using prognostic health monitoring techniques	Prof. Sabareesh G. R.	DST	26.04	2016-	,
20	Simulation and modelling to minimize porosity level in Aluminium castings by using ultrasonic stir casting	Prof. NSK Reddy	Land N Structural Engineers (P) LTD	8.03	2016-	/
19	Understanding forming behaviour of Ti6Al-4V material between 400-850 C in deep drawing set up	Prof. AK Gupta	(DRDO)	9.85	2016-	-
18	Design and thermal analysis of electronic controller	Prof. Jeevan Jaidi	HBL Power Systems	2.5	April 2016 -June 2016	
17)	Characteristics and modeling of tornado induced wind loading on low-rise buildings	Dr. Sabareesh G. R.	NSFC, China	***	2015-2018	Ruk
(C)	Heat transfer modeling of cold water mist at the cutting zone using FSI model in machining of turbine blade materials	Dr. Phaneendra Kiran C.	ACRG (BITS)	9	2015-2017	Jack Sold
2 5	Development of an integrated approach for modeling and management of micro grid operations	Prof. S .S. Deshmukh	ACRG (BITS)	9	2015-2017	3
14	Structural health monitoring of wind turbines using a comprehensive condition monitoring scheme.	Dr. Sabareesh G. R	ACRG (BITS)	8.5	2015-2017	
13	Characterization of fibre/ matrix interface in advanced composites	Dr. N Jalaiah (Co PI)	ASL (DRDO)	9.96	2015-2016	

- 1	Anaerobic co-digestion of food waste and organic fraction of municipal solid waste for the production of biogas and concomitant use of biogas as fuel for cooking and spent slurry as fertilizer	Prof. S .S. Deshmukh (Co PI)	BITS Pilani	62	2014-2017
11	Develop and test certain 3D printing technologies to produce innovative limbs at affordable costs for the disabled in India.	Prof. S. P. Regalla	BIRAC, DBT	47.65	2015-
10	Formability study on constrained groove pressed extra deep drawn (EDD)steel sheets	Prof. A. K. Gupta	UGC	34.2	2014-2016
B	Design and development of an interactive decision support system for regional energy management	Prof. S .S. Deshmukh	UGC	6	2014-
8	CFD based process optimization of BQR15 flotation cell and scale-up for larger cells (Phase-2)	Prof. Jeevan Jaidi	TenovaDelk or, India	3.16.2	2014-
7	Process modeling and validation of flotation cell: development of 3-D multiphase turbulent model (Phase-1)	Prof. Jeevan Jaidi	TenovaDelk or, India	7.83	2014 June- Sept.
to	Novel minimal-solid lubricant mixture application method for performance improvement in turning	Prof. N. S. K. Reddy	SERC, DST	40.88	2013-
/5	Solid lubricant coated tools for sustainable	Prof. N. S. K. Reddy	CSIR	18.52	2012
1	Understanding material properties and possible forming behavior (using FEM) of Titanium grade – 5 material at elevated temperatures	Prof. A. K. Gupta	DST	10.15	2012-
	Rapid incremental forming of extra deep drawing (EDD) steel sheet metal parts with asymmetric geometry	Prof. S. P. Regalla	UGC	9.73	2011-
-	Development of electrostatic micro-solid lubricant coated tools for green machining	Prof. N. S. K. Reddy	ABG Research seed grant	11.8	2011-
4	Dynamic strain ageing behaviour in Austenitic s tainless steel (304 & 316 Grades)	Prof. A. K. Gupta	BRNS	11.64	2009-