

### Department of Applied Geology

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	MoES(16)/2020-2021/715/AGL	Characterization of Groundwater In Seismically Active Regions of Uttarakhand, India : Implications For Earthquake Induced Variations	Moes (Ministry of Earth Sciences)	9641146	4/30/2020	4/29/2023	Prof. T.H. Syed
2	DST(INSPIRE)(258)/2020-2021/721/AGL	Textural-Compositional Evolutions In Olivine-Gabbro And Troctolite During Interaction With Out-of-Equilibrium Aqueous Solutions: Insights Into The Alteration of The Lower Oceanic Crust	Department of Science And Technology	2800000	9/10/2017	8/10/2022	Prof. Alik Sundar Majumdar

### Department of Applied Geophysics

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	DST(SERB)(TIH)(256)/2020-2021/712/INSTITUTE	Technologies For Mining Under National Mission On Interdisciplinary Cyber Physical Systems (Nm-Icps)	DST(SERB) (TIH)[Department of Science & Technology (Science & Engineering Research Board)]	70000000	3/30/2020	3/29/2021	Prof. Shalivahan
2	SJVN/2020-2021/745/AGP	Geological & Geotechnical Studies For Jangi-Thopan Hep	Satluj Jal Vidyut Nigam Limited	3540000	3/12/2020	2/5/2021	Prof. Sanjit Kumar Pal
3	DST(SERB)(265)/2020-2021/747/AGP	Linking Core-Mantle Coupling To The Recent Time Variations In Geomagnetic Field	Department of Science & Technology (Science & Engineering Research Board)	2600200	3/12/2020	2/12/2022	Prof. Swarandeeep Sahoo
4	DST(SERB)(273)/2020-2021/759/AGP	Joint Inversion of Gravity And Magnetotelluric Data With Variable Density And Conductivity For Enhancement of Subsurface Imaging of The Sedimentary Environments Using Global Optimization Technique	Science & Engineering Research Board (Serb), New Delhi	2939720	12/31/2020	12/30/2023	Prof. Upendra K Singh
5	DST(SERB)(274)/2020-2021/760/AGP	Joint Inversion of Shear Coupled-Pl Waveforms, Receiver Functions And Dispersion Curves	Science & Engineering Research Board (Serb) Dst	2002240	12/31/2020	12/30/2023	Prof. Mohit Agrawal

6	DST(SERB)(278)/2020-2021/767/AGP (NPDP)	Financial Support Under National Post Doctoral Fellowship To Ms. Kusham Under The Mentorship of Prof. Shalivahan, Department of Applied Geophysics, IIT(ISM) Dhanbad	Department of Science & Technology (Science & Engineering Research Board)	1440000	1/25/2021	1/24/2023	Mentor- Prof. Shalivahan
7	IIT(ISM)/2020-2021/777/INSTITUTE	Geophysical Fluid Dynamics Laboratory	IIT(ISM) Dhanbad	2000000	1/3/2021	2/28/2023	Prof. Swarandeep Sahoo
8	CIL(16)/2020-2021/792/AGP	Study of Hazards Due To Mining Induced Sub-Surface Cavities And Waterlogged Areas In Inaccessible Old Workings In Underground Coal Mines Using Geophysical Technique	Ministry of Coal, Govt. of India	19996000	3/15/2021	3/14/2023	Prof. Sanjit Kumar Pal

### Department of Chemical Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	DST(FIST)(260)/2020-2021/736/CHEMICAL	To Strengthen The Research Facilities In The Department of Chemical Engineering	Department of Science And Engineering (Dst)-Fist	15600000	9/30/2020	9/29/2025	Prof. Rajiv Shekhar
2	DST(SERB)(262)/2020-2021/742/CHEMICAL ENGG.	Rational Design And Heterogenization of Heteropolyacid Catalysts For The Production of Alkyl Levulinates As Green Gasoline Additives	Science & Engineering Research Board (Serb)	3091000	11/24/2020	11/23/2022	Prof. Ejaz Ahmad
3	PSA/2020-2021/790/CHEMICAL	Delhi-Cluster: Delhi Research Implementation And Innovation (Drivv) Theme: Solid Waste Management	office of The Principal Scientific Adviser To The Government of India	2439534	7/12/2020	6/12/2023	Prof. Ejaz Ahmad
4	DST(SERB)(284)/2020-2021/793/CHEMICAL	Investigating Uncharted 2D Catalytic Materials For Lignocellulosic Biomass Transformation Into High-Value Platform Chemicals And Fuel	Department of Science & Technology (Science & Engineering Research Board)	3025000	3/26/2021	3/25/2024	Prof. Ejaz Ahmad

### Department of Chemistry & Chemical Biology

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	IGSTC/2020-2021/709/CHEMISTRY	Co2 And Biomass As Feedstock For The Production of Fuels And Chemical Intermediates (Co2Biofeed)	Indo-German Science & Technology Centre	8410000	1/5/2020	4/30/2023	Prof. Biswajit Chowdhury

2	IIT(ISM)/2020-2021/710/CHEMISTRY	Development of New Process Chemistry Towards Synthesis of Re-Purposed Drugs For Potetial Treatment of Covid -19	IIT (ISM) Dhanbad	2464000	5/21/2020	5/20/2021	Prof. Somnath Yadav
3	Tata Steel/2020-2021/731/CHEMISTRY	Novel Polymeric Flocculants Towards Selective Removal of Iron Ore Particles With Enhanced Efficiency	Tata Steel R&D, Jamshedpur	944000	10/19/2020	3/31/2023	Prof. Sagar Pal
4	Tata Steel/2020-2021/732/CHEMISTRY	Organic Binder Synthesis And Characterization For Iron Ore Pelletization	Tata Steel R&D, Jamshedpur	885000	10/19/2020	10/18/2022	Prof. Sagar Pal
5	Tata Steel/2020-2021/733/CHEMISTRY	Molecular Modeling Approach To Design New Binder For Low Grade Iron Ore Pelletization	Tata Steel Limited	1077340	10/19/2020	10/18/2021	Prof. Niladri Patra
6	DST(SERB)(267)/2020-2021/749/CHEMISTRY	Prediction of Mexb Efflux Inhibitors: A Combined Molecular Dynamics Simulations And Machine Learning Approach	Serb-Dst [Department of Science & Technology (Science & Engineering Research Board)]	2347400	4/12/2020	3/12/2023	Prof. Niladri Patra

### Department of Civil Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	DST(FIST)(261)/2020-2021/741/CE	To Strengthen The Research Facilities In The Department of Civil Engineering	Dst, Ministry of Science & Tech, Govt of India	19100000	11/11/2020	10/11/2025	Prof. Sarat Kumar Das
2	DST(SERB)(271)/2020-2021/756/CE	Development of Graphical User Interface Based Empirical Tool For Fast Prediction of Blast Wave Parameters	Science & Engineering Research Board (Serb)	30000	11/29/2020	6/28/2021	Prof. Satadru Das Adhikary
3	RITES/2020-2021/769/CE	Characterization of Construction Materials Through Laboratory Testing of Samples	Rites (Rail India Technical And Economic Service Limited) Ltd	236000	5/2/2021	4/2/2022	Prof. Sanket Nayak
4	CIL(12)/2020-2021/774/CE	Effect of Blasting On Opencast Mine Dump And Development of Relationship Between Blast Induced Vibration And Dump Design	Coal India Limited	7242840	10/2/2021	9/2/2023	Prof. Rajib Sarkar

5	SCCL/2020-2021/780/CE	Scientific Study On Stability of Proposed Diversion of Bokkalavagu Nallah Over Goaved Out Longwall Panels of Gdk-10 Incline On The Surface And Assessment of Impact of Blasting In Rg Ocp-I On Embankment of Proposed Diversion Nallah And Assessment of Water Danger To Adriyala Longwall Project, Rg Ocp-I Expansion.	The Singareni Collieries Company Limited	973500	1/3/2021	5/30/2021	Prof. Srinivas Pasupuleti
6	NDMA/2020-2021/782/CE	Development of Earthquake Disaster Risk Index For 60 Indian Cities	National Disaster Management Authority (Ndma)	1500000	3/12/2020	2/12/2022	Prof. Rajib Sarkar
7	DST(NGP)(286)/2020-2021/795/CE	21 Days Summer/Winter School (Level-1) On "Geospatial Science And Technologies	Dst [Department of Science & Technology (National Geospatial Program)]	1000000	9/4/2021	4/30/2021	Prof. Srinivas Pasupuleti
8	DST(SERB)(287)/2020-2021/796/CE	Corrosion Potential of Industrial Waste As A Geomaterial Using Inverse Dielectric Spectroscopy	Dst(Serb) [Department of Science & Technology (Science & Engineering Research Board)]	3271400	3/22/2021	3/21/2024	Prof. S.K. Das

### Department of Computer Science & Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	MeitY/2020-2021/720/CSE	Distributed Cognitive System For Healthcare	MEITY	2000000	2/28/2020	2/27/2023	Prof. Haider Banka
2	NCOE(DSCI)/2020-2021/734/CSE	Ai/MI Driven Intrusion Detection Framework For Iot Enabled Cold Storage Monitoring	NCOE, DSCI	613600	10/23/2020	6/22/2021	Prof. Sachin Tripathi
3	CSIR(34)/2020-2021/754/CSE	Development of Content-Based Image Filtering Approach To Prevent Objectionable Image Retrieval From The Internet	Council of Scientific And Industrial Research	1860000	1/11/2020	10/31/2023	Prof. Arup Kumar Pal
4	SICI(SMP)/2020-2021/785/CSE	Green And Intelligent Edge For Delay-Sensitive Iot Applications	Indo Canadian Shastri Institute, Shastri Mobility Programme	57000	8/2/2021	2/28/2021	Prof. Tarachand Amgoth
5	CIL(15)/2020-2021/789/CSE	To Develop An Artificial Intelligence (Ai) Based Machine Learning Solutions To Enable Prediction of Occurrence of Fire In Opencast Mines Extracting Locked Coal Pillars With Safety	(Coal India Limited)	2655000	10/2/2021	9/2/2023	Prof Haider Banka

### Department of Electrical Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	DHI/2020-2021/708/EE	Development of Energy Efficient Control Scheme For Induction Motor Drive Used In Ev And Hev	Department of Heavy Industry	8437000	2/28/2020	2/27/2022	Prof. Sukanta Das

### Department of Electronics Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	DRDO(13)/2020-2021/711/ECE	Design & Analysis of Compact Triple Band Circularly Polarized Dielectric Resonator Antenna For Gps & Rnss Application	Defence Research & Development Organization	1000000	5/20/2020	5/19/2021	Prof. R.K. Gangwar
2	DST(FIST)(257)/2020-2021/713/ECE	Fist-2019 Project of Department of Electronics Engineering	DST (FIST) (Department of Science & Technology)	19000000	7/1/2020	6/1/2025	Prof. Sushrut Das
3	IEEE/2020-2021/718/ECE	Auto Irrigation And Soil Monitoring System For Covid-19 Migrants Engagement	IEEE	278462	7/15/2020	1/14/2021	Prof. Rajeev Kr. Ranjan
4	DRDO(15)/2020-2021/724/ECE	Design And Development of Broadband Circularly Polarized Conformal Antenna Array For Airborne Applications	Defence Research & Development Organization	6106000	8/17/2020	8/16/2023	Prof. Ravi Kumar Gangwar
5	MHRD(SICRG)/2020-2021/740/ECE	Memristor Based Biosensor Design For Covid-19	Ministry of Human Resource And Development (Mhrd), Government of India	1000000	9/11/2020	8/11/2022	Prof. Rajeev Kumar Ranjan
6	DST(SERB)(268)/2020-2021/750/ECE	Design & Development of Multiple Input Multiple Output (Mimo) Antennas For 5G Applications	Science & Engineering Research Board (Serb)	60000	11/29/2020	7/28/2021	Prof. Ravi Kumar Gangwar
7	SICI(SMP)/2020-2021/751/ECE	Design & Development of Multiple Input Multiple Output (Mimo) Antennas For Sub-6-Ghz Applications	Shastri Indo-Canadian Institute	57000	12/21/2020	1/20/2021	Prof. Ravi Kumar Gangwar
8	DST(SERB)(277)/2020-2021/766/ECE	Design And Fabrication of Light-Weight Flexible Polarization Independent Broadband Rf And Microwave Absorber Based On Active/Passive Anisotropic Metamaterial	Science And Engineering Research Board	7000000	1/25/2021	1/24/2024	Prof. Raghvendra Kumar Chaudhary

9	DST(SERB)(285)/2020-2021/794/ECE	Accurate Correlation of Dot Size Distribution With The Spectral Response of As-Grown And Interdiffused Stacked Quantum Dots Embedded In P-I-N Solar Cells	Department of Science & Technology (Science & Engineering Research Board)	4050992	3/25/2021	3/24/2024	Prof. Subindu Kumar
<b>Department of Environmental Science &amp; Engineering</b>							
SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	CIL(14)/2020-2021/786/ESE	Continuous Monitoring In The Change of Ecology of Ananta Ocp, Mcl	Central Mine Planning & Design Institute (Cmpdi), Hq Ranchi	2500000	1/1/2021	12/31/2023	Dr Subodh Kumar Maiti
2	HINDALCO/2020-2021/717/ESE	Hydrological Study And Assessment of Ground Water/Surface Water	Hindalco Industries Limited	674960	2/5/2018	1/5/2021	Prof. B.K. Mishra
3	Tata Steel/2020-2021/719/ESE	Land Use Land Cover Study For Jharia Group of Collieries And Washeries, Tata Steel	Tata Steel	2360000	8/1/2020	7/1/2022	Prof. Manish Kumar Jain
4	VEDANTA(ESL)/2020-2021/726/ESE	Preparation of Catchment Treatment Plan	Electrosteel Steels Ltd. (Vedanta)	3540000	9/13/2020	12/3/2021	Prof. Anshumali
5	Tata Steel/2020-2021/735/ESE	Evaluating The Impacts of Structural Interventions On To The Environment With Reference To Water Regime of The Area	M/S Tata Steel, Nova Mundi	708000	7/30/2020	7/29/2021	Prof. Sunil Kumar Gupta
6	Tata Steel/2020-2021/738/ESE	Study of Dust Suppression Chemical	Tata Steel Ltd.	1475000	10/20/2020	10/19/2021	Dr Alok Sinha
7	DST(SEED)(270)/2020-2021/755/ESE	Improving The Quality And Yield of Salt Produced By The Marginal Agarias of Kutch, Gujarat (Halwad Region) Through Scientific Intervention And Improving Their Income Through Value Addition of Bitterns, Halophyte Plantation And Potable Water Recovery & Arid Region Reclamation Technology With Respect To Lignite Mining Areas In Kutch, Gujarat	Department of Science And Technology, New Delhi	5361120	1/1/2021	12/31/2023	Prof. Biswajit Paul
8	DST(276)/2020-2021/763/ESE	Development of A Low Cost Technology Based On Biochar Supported Green Zerovalent Iron For Arsenic And Fluoride Removal From Water	Department of Science And Technology	3249980	12/24/2020	12/23/2023	Prof. Sheeja Jagadevan
9	MoM/2020-2021/773/ESE	Recovery of Copper From Water Bodies Nearby Copper Mines Using Microbial Electrochemical Systems	Ministry of Mines	2500000	10/2/2021	9/8/2022	Prof. Vipin Kumar

10	SICI(SMP)/2020-2021/776/ESE	Development of Altered Exhaust Pipe Design In School Bus For Reducing Nano Particle Exposure To School Going Children	Shastri Mobility Programme [Ministry of Education (Formerly Mhrd)]	57000	1/2/2021	2/22/2021	Prof. Suresh Pandian Elumalai
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### Department of Fuel, Minerals & Metallurgical Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	BCCL/2020-2021/737/FMME	Quality Assessment of Coal For Bccl, Dhanbad	Bccl (Bharat Coking Coal Limited) Dhanbad	2076800	11/11/2020	10/11/2023	Prof. Anand Anupam
2	BCCL/2020-2021/744/FMME	Quality Assessment of Slurry Stacked At Patherdih Coal Washery	Bharat Coking Coal Limited	389400	10/20/2020	10/19/2021	Prof. SHRAVAN KUMAR
3	BCCL-SAIL/2020-2021/764/FMME	Development of Modalities For Fixation of Import Parity Price For Washed Coking Coal Produced By Bccl	Bccl & Sail (Bharat Coking Coal Limited & Steel Authority of India Limited) (Joint Funding)	8826400	1/1/2021	6/30/2021	Prof. S. Bhattacharya and Prof. A. Anupam
4	OTPP/2020-2021/778/FMME	Assessment of Utilization Potential of Coal For Power Plants-1 (Otps, Obra)	Obra Thermal Power Project	226560	2/18/2021	2/17/2022	Prof Shalini Gautam
5	NIPL/2020-2021/783/FMME	Pure Iron Oxide Production From Ferrous Chloride	Nipuna International Ltd	262400	1/3/2021	6/30/2021	Prof. Kesavan Ravi
6	BCCL/2020-2021/722/FMME	Thermal Quality Evaluation of Barora Coal Washery Reject	Bccl (Bharat Coking Coal Limited) Dhanbad	891798	10/8/2020	9/8/2021	Prof. Pankaj Kumar Jain
7	BCCL/2020-2021/723/FMME	Quality Assessment of Moonidih Coal Washery Reject Slurry	Bccl (Bharat Coking Coal Limited) Dhanbad	106200	8/26/2020	9/25/2020	Prof. Pankaj Kumar Jain
8	BCCL/2020-2021/727/FMME	Quality Assessment of Slurry Stacked At Sudamdih Coal Washery.	Bharat Coking Coal Limited	141600	9/15/2020	9/14/2021	Prof. Shravan Kumar

### Department of Humanities & Social Sciences

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	ICPR(3)/2020-2021/771/HSS	The Study of Evidence of Oral Transmission of The Oldest Indian Buddhist Text	Indian Council of Philosophical Research, New Delhi	500000	5/1/2021	4/1/2023	Prof. Gyan Prakash

### Department of Management Studies & Industrial Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	CAPGEMINI/2020-2021/730/MS	Develop And Demonstrate Mbse Framework On Plm And Rflp Methodology For An Avionics Component Having Multi-Disciplinary Domains	Capgemini	470000	10/19/2020	3/18/2021	Prof. Shikha Singh
2	DST(263)/2020-2021/743/MS	Entrepreneurship Training Program Through Online Platform [Faculty Development Programme (Fdp)]	Dst (Department of Science & Technology)	200000	12/11/2020	11/4/2021	Prof. Shashank Bansal
3	MoT(2)/2020-2021/757/MS	A Survey Research On Outreach And Effectiveness of Governmental Schemes On Lives of Sc/St Artisans of Jharkhand	Ministry of Textiles Government of India	1364000	1/1/2021	12/31/2021	Prof. Mrinalini Pandey
4	DST(NCSTC)(279)/2020-2021/768/MS	Development of Strategic Interventions Through Communication And Science Media For Enforcing Sustainable And Healthy Lifestyles Among School Children, Teachers And Women	Department of Science & Technology (Science & Engineering Research Board)	1327000	5/2/2021	4/2/2022	Prof. Rashmi Singh

### Department of Mathematics & Computing

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	DST(SERB)(259)/2020-2021/729/M&C	Bayesian Individual-Level Modeling of The Spread of Covid-19 Pandemic	Science And Engineering Research Board	183332	6/26/2020	6/25/2021	Prof. Gajendra K Vishwakarma
2	CSIR(35)/2020-2021/765/MnC	Joint Modelling of Longitudinal And Time-To-Event Data With Multiple Imputation	Council of Scientific And Industrial Research (Csir)	1564000	1/12/2020	11/30/2023	Prof. Gajendra K. Vishwakarma
3	DST(SERB)(280)/2020-2021/772/MnC	Earthquake Early Warning Detection And Classification Based On Tec Value Using Artificial Intelligence	Dst(Serb) [Department of Science & Technology (Science & Engineering Research Board)]	660000	12/19/2020	12/18/2023	Prof. Sanjeev Anand Sahu
4	ICSSR(7)/2020-2021/784/MnC	Normal Activity Initiation By Using Artificial Intelligence Based Technology To Fight Against Covid-19 In Different Hotspots of India	Indian Council of Social Science (Icssr)	514500	1/3/2021	11/30/2021	Prof. Gajendra K. Vishwakarma



5	NBHM(3)/2020-2021/770/MnC	The $\mu$ th Order Mehler-Fock Transform And Some Allied Operators On Function Spaces	National Board For Higher Mathematics (Dae)	1624800	1/18/2021	1/17/2024	Prof. Akhilesh Prasad
6	DST(SERB)(282)/2020-2021/788/MnC (INSPIRE)	Development of Classification, Identification And Feature Extraction Algorithms Using Machine Learning And Artificial Intelligence Techniques For Genome Classification, Protein Classification And Medical Image Analysis	Department of Science & Technology (Science & Engineering Research Board)	2424640	11/4/2020	10/4/2025	Mentor - Prof. Subhashis Chatterjee

### Department of Mechanical Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	DRDO(DRDL)(14)/2020-2021/714/MECH. ENGG.	Design, Development And Supply of Special Purpose Equipment For Cutting of Composite Hardware	Drdo(Drdl) [Defence Research & Development Organization (Defence Research & Development Laboratory)]	3961595	5/28/2020	5/27/2021	Prof. A.R. Dixit
2	IIT(ISM)/2020-2021/716/INSTITUTE	Design And Development of Mechanical Ventalator	IIT (ISM) Dhanbad	1039900	8/7/2020	7/7/2021	Prof. Arun Dayal Udai
3	DRDO(DRDL)(16)/2020-2021/725/MECH. ENGG.	Formability Study of Ti-6Al-4V Alloy And Its Surface Characterization	Defence Research And Development Laboratory, Hyderabad	983000	11/8/2020	10/8/2021	Prof. Alok Kumar Das
4	DST(SERB)(264)/2020-2021/746/MECH	Linear Spatio-Temporal Receptivity Analysis of Compressible And Mixed Convection Boundary Layer Using Bromwich Contour Integral Method	Science And Engineering Research Board	660000	11/19/2020	11/18/2023	Prof. Swagata Bhaumik
5	DST(INSPIRE)(269)/2020-2021/753/MECH	Micromechanics Based Intra And Inter-Laminar Damage Models With Emphasis On Spatial Randomness, Boundary Layer And Interface	Department of Science & Technology (Dst), India	3500000	4/8/2020	3/8/2025	Prof. SUBHABRATA KOLEY
6	NSM/2020-2021/781/MECH	Exascale Computing of Compressible Rayleigh-Taylor Instability With A Novel Non-Overlapping Parallel Algorithm	National Supercomputing Mission	7900000	3/15/2021	3/14/2023	Prof. Tapan Kumar Sengupta
7	CIL(13)/2020-2021/775/MME	Design And Deployment of Ventilation Fan Wind Power Recovery System As Alternate Source of Electrical Energy In Underground Coal-Mines	Coal India Limited	6670000	10/2/2021	9/2/2024	Prof. TANMOY MAITY

8	DST(SUPRA)(283)/2020-2021/791/MECH	Control of Sprays And Thermo-Acoustic Oscillations Through An Acoustic Driven Fuel Injector: Passive And Active Control Strategy	Dst (Supra) [Department of Science & Technology (Science & Engineering Research Board)]	15191520	1/4/2021	3/31/2024	Prof. Rabindra Nath Hota
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### Department of Mining Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	SAIL(4)/2020-2021/728/ME	Assessment of Change Detection Due To Mining Activities At The Iron Ore Mines of Sail At A Scale of Cadastral Using Deep Learning Neural Networks Technique	Steel Authority of India Limited	915680	6/20/2020	6/19/2021	Prof. Vasanta Govind Kumar Villuri
2	DST(SERB)(275)/2020-2021/761/ME	Mine Slope Management And Monitoring System	Science & Engineering Research Board (Serb)	3997400	12/1/2021	11/1/2024	Prof Radhakanta Koner
3	GCPL/2020-2021/762/ME	Study of Assessment of Personal Exposure To Diesel Particulate Matter (Dpm) For 7 Diesel Operated Machines In Underground Workings of Jhanjra Project Colliery, Ecl	Gainwell Commosales Private Limited, Jhanjra Project Colliery, Burdwan (West), West Bengal	590000	1/1/2021	6/30/2021	Prof. Partha Sarathi Paul
4	ITD CEM/2020-2021/779/ME	Scientific Study To Develop A Controlled Excavation Methodology For Dismantling Concrete Berths At Or-I And Or-Ii Site, Vishakhapatnam Port Trust	ItD Cementation India Limited	3186000	1-Mar-21	12/31/2022	Prof. V M S R Murthy

### Department of Petroleum Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	OIDB/2020-2021/739/PE	Foam Assisted Oil-Water Nanoemulsion For Enhanced Oil Recovery: Experimental And Molecular Dynamic Simulation Studies	Oil Industry Development Board	6895000	11/23/2020	11/22/2022	Prof. Ajay Mandal
2	OIDB/2020-2021/752/PE	Use of Natural Extracts As Pour Point Depressants For Flow Assurance of Waxy Crude	Oil Industry Development Board, Noida, India	3403000	12/16/2020	12/15/2022	Prof. TARUN KUMAR NAIYA

3	DST(SERB)(272)/2020-2021/758/PE	Micro Scale Investigation of Miscibility Behaviour of Co2 With Crude Oil For Enhanced Oil Recovery And Its Geological Sequestration Potential In The Oil Fields of Cambay Basin	Department of Science & Technology (Science & Engineering Research Board)	4481000	12/24/2020	12/23/2023	Prof. Ajay Mandal
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### Department of Physics

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Rupees)	Start Date of Project (in mm-dd-yyyy)	End Date of Project (in mm-dd-yyyy)	Name of PI
1	DST(266)/2020-2021/748/PHYSICS	Laser Biospeckle Techniques For Optimum Utilization of Irrigation Water By Monitoring In-Situ Plant Water Stress	Department of Science & Technology	3838018	4/12/2020	3/12/2023	Prof. Anil Kumar Nirala
2	DST(SERB)(281)/2020-2021/787/PHYSICS (OVDF)	Financial Support Under Serb - Ualberta Overseas Visiting Doctoral Fellowship 2019-20 To Ms. Labanya Bhattacharya Under The Guidance of Prof. Alex Brown, At University of Alberta, Edmonton, Canada	Department of Science & Technology (Science & Engineering Research Board)	1199440	12/29/2020	6/28/2021	Guide - Prof. Sridhar Sahu