

International Projects (Ongoing)											
S. No.	Project No	Title of the Project	Status	Sanction Amount (Including Manpower)	Funding Agency	Type of Funding agency (Govt./Privtae)	Name of PI	Departme nt	CO-PI	Departmen t of Co-PI	In case of multiple PI/Co-PI, please mention their Name and Department
1	CIL(9)/2017-2018/540/ME	Development of Virtual Reality Mine Simulator (VRMS) for improving safety and productivity in coal mines	Ongoing	132010000.00	Coal India Limited	Govt.	Prof. V.M.S.R. Murthy	Mining Engineerin g	NA	NA	1) Prof. Dheeraj Kumar, Mining Engineering 2) Prof. R.M. Bhattacharjee, Mining Engineering 3) Prof. Chiranjeev Kumar, Computer Science & Engg. 4) Prof. Ashok Kumar, Mining Engineering
2	MHRD(SPARC)(1)/2019-2020/641/CE	Geoenvironmental and Geotechnical Issues of Coal Mine Over Burden	Ongoing	4391561.00	MHRD, New Delhi	Govt. + International funded	Prof. Sarat Kumar Das	Civil Engineerin g	Prof. Lohitkumar Nainegali	Civil Engg.	Indian Co-PI: Prof. Hanumantha B Rao, IIT Bhubaneswar International PI : Prof. Krishna R Reddy, University of Illinois, Chicago (UIC) International Co-PI : Prof. Joseph W Schulenberg, University of Illinois, Chicago (UIC)
3	MHRD(SPARC)(2)/2019-2020/651/CE	Nonlinear vibration and instability analysis of composite structural elements through advanced shear-deformation theories and homogenization based damage model	Ongoing	All	MHRD, New Delhi	Govt. + International funded	Prof. Sarat Kumar Panda	Civil Engineerin g	Prof. Tanish Dey, Prof. Sukanta Chakraborty,	Civil Engineering	International PI : Prof. Marco Amabili, (MCGILL UNIVERSITY), Co-PI: Prof. L.S. RamachanProf.a, IIT Kharagpur, Prof. Mathias Legrand (MCGILL University)
4	DST(236)/2019-2020/657/CHEMISTRY	CO2 as a building block for synthesis of fine chemical and fuel over functionalized materials.	Ongoing	6312032.00	DST, New Delhi	Govt. + International funded	Prof. Biswajit Chowdhury	Chemistry & Chemical Biology	NA	NA	International PI : Prof. Sci. Sergey E. Lyubimov, Institute of Organoelements Compounds of Russian Academy of Sciences, Moscow, Russia
5	DST(238)/2019-2020/664/ESE	PAVITR- Potential and Validation of Sustainable Natural & Advance Technologies for Water & Wastewater Treatment, Monitoring and Safe Water Reuse in India.	Ongoing	5069000.00	DST, New Delhi	Govt. + International funded	Prof. Sunil Kumar Gupta	Environmen tal Science & Engineerin g	NA	NA	Indian Project (Lead Coordinator) : Prof. Nadeem Khalil, Aligarh Muslim University, European Project (Lead Coordinator) : Mr. MirkoHanel, TTZ Bremerhaven, Germany
6	IGSTC/2020-2021/709/CHEMISTRY	CO2 and biomass as feedstock for the production of fuels and chemical intermediates (CO2BioFeed)	Ongoing	8410000.00	Indo-German Science & Technology Centre	International	Prof. Biswajit Chowdhury	Chemistry & Chemical Biology	NA	NA	1) Prof. Asim Bhaumik, IACS Kolkata 2) Prof. Pravin Kr. Chinthala, RIL 3) Prof. Thomas Ernst Muller, Ruhr Universitat Bochum 4) Prof. Jens Hannes, RWE Power, 5) Mr. Gernot Nell, Frankfurt
7	IEEE/2020-2021/718/ECE	Auto Irrigation and Soil Monitoring System for COVID-19 Migrants Engagement	Ongoing	642847.00	IEEE, USA	International	Prof. Rajeev Kumar Ranjan	Electronics Engineerin g	Prof. Dheeraj Kr.	Horticulturi st	NA

8	MHRD(SICRG)/2020-2021/740/ECE	Memristor Based Biosensor Design For COVID-19	Ongoing	1000000.00	MHRD, New Delhi	Govt. + International funded	Prof. Rajeev Kumar Ranjan	Electronics Engineerin g	NA	NA	Prof. Balbir (Bob), Gill University, British Columbia
9	JAZANU/2021-2022/810/MECH	Structural and machinery failure analyses through Vibration and Acoustic techniques	Ongoing	600000.00	Jazan University, Saudi Arabia	International	Prof. Madan Lal Chandravanshi	Mechanical Engineerin g	Prof. Mofareh Hassan Ghazwani	Jazan University, Kingdom of Saudi Arabia	NA
10	OECD/2022-2023/912/CE	Contract for intellectual services relative to support the ITF work in India in the framework of the decarbonising transport in emerging economies (DTEE) and the NDC transpot initiative for Asia (ncd-tia)	Ongoing	1912636.00	Organisati on for Economic Co-operation and Developm ent, Paris France	International	Prof. Leeza Malik	Civil	NA	NA	NA
11	J-PAL/2022-2023/960/MS	Sustainable digital interventions for resource poor farmers	Ongoing	799875.00	J-PAL (The Abdul Latif Jamil Poverty Action Lab), Cambridge , USA	International	Prof. Aparna Krishna	Manageme nt Studies	NA	NA	Prof. Bharat Ramaswami, Ashoka University
12	OU/2022-2023/984/PE	Coupled Geomechanical and Fluid Flow Study of High-temperature Wells Using FEM and CFD Analysis	Ongoing	619424.00	University of Oklahoma, Norman, USA	International	Prof. Raj Kiran	Petroleum Engineerin g	NA	NA	NA
13	MHRD(SPARC)(3)/2023-2024/1031/PE	Development of Polymer augmented surfactant-based microemulsion systems for enhanced oil recovery	Ongoing	74,39,645.00	MHRD (SPARC)	Govt. + International	Prof. Ajay Mandal	Petroleum Engineerin g	Indian Co-PI: Prof. Keka Ojha	Petroleum	International PI : Prof. Lau Hon Chung, National University of Singapore (NUS) International Co-PI : Dr. Ofer Manor, Technion - Israel Institute of Technology
14	DST(CEFIPRA)(394)/2023-2024/1032/MECH	Data reduction and surrogate modelling of transition to turbulence to Rayleigh-Taylor instability data obtained by DNS	Ongoing	39,09,216.00	DST(CEFI PRA)	Govt. + International	Prof. Aditi Sengupta	Mechanical Engg	Dr. Lucas Lestandi	Ecole Centrale De Nantes, Nantes, France	NA
15	MHRD(SPARC)(4)/2023-2024/1033/MNE	Micromechanical Simulation of Overburden Dump Slope under Field Geomining Conditions	Ongoing	53,99,720.00	MHRD (SPARC)	Govt. + International	Prof. Radhakanta Koner	Mining Engg	Prof. Debashish Chakravarty	IIT Kharagpur	International PI : Prof. Giovanni Grasselli, University of Toronto, International Co-PI : Prof. Karl Peterson, University of Toronto

### International Projects (Completed)

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1	DST(RFBR)/(181)/2017-2018/544/AM	Approach for the Processing of Data of Vibro-seismic Waves Records and Theoretical Investigations on Seismic Waves	Completed	1522400.00	DST, New Delhi	Govt.	Prof. Santimoy Kundu	Mathematics and Computing	Prof. Znak Vladimir Ilch	Institute of Computational, Mathematics and Mathematical Geophysics of the Siberian Branch of RAS, Russia	NA
2	IUSSTF/2017-2018/552/AC	2D Nanomaterials for Energy Storage	Completed	3025750.00	Indo-U.S.Science and Technology Forum	Govt. + International funded	Prof. Ganesh Chandra Nayak	Chemistry & Chemical Biology	Vikas Beri, Department	University of Illinois at Chicago, Chicago, IL	NA
3	UGC-ISF/2018-2019/562/AGP	Low-cost Array-based Earthquake Early Warning for Eastern India	Completed	14999020.00	University Grants Commission	Govt. + International	Prof. Prosanta Kumar Khan	Applied Geophysics	NA	NA	NA
4	DST-SERB(210)/2018-2019/	Development of Eco-friendly Magnesium Alloy Nanocomposites for Structural & Biomedical Applications	Completed	41,02,000.00	DST-SERB, New Delhi	Govt. + International	Prof. Ashis Mallick	Mechanical Engineering	NA	NA	NA
5	RSC/2018-2019/613/AM	Assessing and promoting inclusion of the differently-abled in educational institutions in eastern India - with special reference to the chemical science community.	Completed	411869.48	Royal Society of Chemistry	International	Prof. Abha Rani	Mathematics and Computing	NA	NA	NA
6	SICI(SMP)/2020-2021/751/ECE	Design & Development of Multiple Input Multiple Output (MIMO) Antennas for sub-6-GHz Applications	Completed	57000.00	Shastri Indo-Canadian Institute (Shastri Mobility Programme)	International	Prof. Ravi Kumar Gangwar	Electronics Engineering	NA	NA	NA
7	SICI(SMP)/2020-2021/776/ESE	Development of altered exhaust pipe design in school bus for reducing nano particle exposure to school going children	Completed	57000.00	Shastri Indo-Canadian Institute (Shastri Mobility Programme)	International	Prof. Suresh Pandian E	Environmental Science & Engineering	NA	NA	NA
8	SICI(SMP)/2020-2021/785/CSE	Green and Intelligent Edge for Delay-Sensitive IoT Applications	Completed	57000.00	Shastri Indo-Canadian Institute (Shastri Mobility Programme)	International	Prof. Tarachand Amgoth	Computer Science and Engineering	NA	NA	NA