

FY: 2019-20

Department of Applied Geology

Sl. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
1	DST(NRDMS)(230)/2019-2020/647/AGL	Evaluating Basin-Scale Estimates of Evapotranspiration Using Space-Based Observations	DST-NRDMS, New Delhi	21.43	29.04.2019	29.04.2022	Prof. Tajdarul Hassan Syed
2	DST(SERB)(251)/2019-2020/700/AGL	Mettallogenetic Evolution of Gold (+Pge) Mineralization With Implications For Crust-Mantle Processes, Invisible Gold And Role of Organic Matter Linked To Mineralization Events In Parts of Archean Singhbhum Orogenic Belts	DST-SERB, New Delhi	51.80	02.12.2020	02.12.2023	Prof. A S Venkatesh
3	DST(SERB)(252)/2019-2020/701/AGL	Structural Geometry, Kinematics of Deformation, Grain Scale Deformation Mechanisms And Geothermobarometry of The East-Central Part of The Mahakoshal Belt, Central India: Implication On The Tectonic Evolution of The Central Indian Tectonic Zone	DST-SERB, New Delhi	69.85	05.02.2020	05.02.2023	Prof. Mrinal Kanti Mukherjee
4	DST(SERB)(253)/2019-2020/702/AGL	Influence of Micro-Domain Phase Variation On Kinematic And Metamorphic Reactions In Assessing Petrological Evolution of Rocks	DST-SERB, New Delhi	27.06	19.02.2020	19.02.2023	Prof. Upama Dutta

Department of Applied Geophysics

Sl. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
5	DST/INSPIRE/(240)/2019-2020/667/AGP	Thermochemical Convection In The Earth'S Core With Thermal Core-Mantle Interaction.	DST, New Delhi	35.00	15.07.2019	15.07.2024	Prof. Swarandeeep Sahoo
6	DAE(BRNS)(7)/2019-2020/669/AGP	Geophysical Prospecting Along Northern Fringes of Dalma Volcanics Around Kantaldih – Pharenga Area	Department of Atomic Energy	29.93	30.07.2019	30.07.2022	Prof. Shalivahan

Department of Chemistry & Chemical Biology

Sl. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
7	Tata Steel & IIT(ISM) - MoU/2019-2020/644/AC	Structural Reformation of Enfloc For Treatment of Bot Water	Tata Steel Ltd., Jamshedpur	19.00	03.04.2019	02.10.2020	Prof. Sagar Pal
8	DST(236)/2019-2020/657/CHEMISTRY	CO ₂ As A Building Block For Synthesis of Fine Chemical And Fuel Over Functionalized Materials.	DST, New Delhi	63.12	28.07.2019	28.07.2022	Prof. Biswajit Chowdhury
9	CSIR(30)/2019-2020/658/CHEMISTRY	Syntheses of Both Enantiomers of Carbohydrate Based Organocatalysts And Gelators From D- Or L- Arabinose And Their Applications In Asymmetric Organocatalysis.	CSIR, New Delhi	14.00	17.05.2019	17.05.2022	Prof. Somnath Yadav
10	DST(SERB)(237)/2019-2020/661/CHEMISTRY	Identification And In Vivo Validation of C-Jun-N-Terminal Kinase 3 (Jnk-3) Inhibitors As Novel Therapeutics For Neurodegenerative Diseases	DST-SERB, New Delhi	42.32	20.06.2019	20.06.2022	Prof. Parthasarathi Das
11	Tata Steel & IIT(ISM) - MoU/2019-2020/662/CHEMISTRY	Supramolecular Gelator For Oil Demulsification	Tata Steel Limited, Jamshedpur	15.95	15.07.2019	15.01.2022	Prof. Swapan Dey

12	HIGUM/2019-2020/686/CHEMISTRY	Modification of Polysaccharides For Various Commercial Applications	Hindustan Gum & Chemical Ltd., Bhiwani, Haryana	10.80	30.11.2019	30.11.2022	Prof. Sagar Pal
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Department of Civil Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
13	MHRD(SPARC)(1)/2019-2020/641/CE	Geoenvironmental And Geotechnical Issues of Coal Mine Over Burden	Ministry of Human Resource Development	43.91	23.03.2019	23.03.2021	Prof. Sarat Kumar Das
14	BCCL(1)/2019-2020/645/CE	Laboratory Testing of Samples of Construction Materials	Bharat Coking Coal Limited	8.73	29.07.2019	29.01.2020	Prof. Sanket Nayak
15	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	Ministry of Human Resource Development	49.91	29.07.2019	31.03.2023	Prof. Sarat Kumar Panda
16	RCPL/2019-2020/660/CE	Evaluation of Materials For Concrete Mix Design M15, M20, M25 And M30	Rajbir Construction Pvt Ltd.	2.36	08.07.2019	08.10.2019	Prof. Sanket Nayak
17	JSBCL/2019-2020/668/CE	Mix Design of M25 And M30 Concrete	Jharkhand State Building Construction Corporation Limited.	1.18	22.08.2019	22.11.2019	Prof. Smruti Sourava Mohapatra
18	Tata Steel/2019-2020/675/CE	Development of Cement-Free Concrete Using Ggbs And Fly Ash For Civil Infrastructures	Tata Steel Limited< Jamshepur	23.60	16.09.2019	30.06.2023	Prof. Satadru Das Adhikary
19	L&T/2019-2020/679/CE	Critical Assessment of Road Network, Pavement And Its Elements As Per The Relevant Irc And Is Codal Provisions	Larsen & Toubro Ltd.	15.03	18.10.2019	18.06.2023	Prof. Smruti Sourava Mohapatra
20	DST(SERB)(254)/2019-2020/703/CE	Mathematical Modeling of Concrete Structures Under Combined Blast And Impact Loading.	DST-SERB, New Delhi	6.60	21.02.2020	21.02.2023	Prof. Satadru Das Adhikary

Department of Computer Science & Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
21	DST(SERB)(234)/2019-2020/654/CSE	Machine Learning Based Agriculture Advent For Farmer Activity Development In India: An Application Approach	DST-SERB, New Delhi	20.46	01.06.2019	01.06.2022	Prof. Dharavath Ramesh
22	DST(SERB)(239)/2019-2020/665/CSE	Development of Lizard-Like Robotic Spy Surveillance System	DST-SERB, New Delhi	16.98	22.05.2019	22.05.2022	Prof. Ansuman Bhattacharya

Department of Electrical Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
23	DST(SERB)(231)/2019-2020/650/EE	Development of A Non-Invasive Insulation Diagnostic System For Large Power Equipment Employing Cellulose Impregnated With Alternate Dielectric Liquid As Its Primary Insulation Taking Into Consideration The Influence of Trapped Charge Present In The System	DST-SERB, New Delhi	40.09	09.05.2019	09.05.2022	Prof. Arijit Baral
24	DST(SERB)(233)/2019-2020/653/EE	Design And Development of Fiber Ring Loop Down (FrlD) Based Monitoring System For Roof Safety Measure In Underground Mines	DST-SERB, New Delhi	33.38	29.05.2019	29.05.2022	Prof. Sanjoy Mandal
25	DST(SERB)(247)/2019-2020/692/EE	Multi-Output Series Resonant Inverter For Non-Contact Heating In Rural Domestic Cooking Applications	DST-SERB, New Delhi	15.18	19.12.2019	26.03.2023	Prof. Devara Vijaya Bhaskar
26	DST(SERB)(249)/2019-2020/696/EE	Execution of A Common Approach For Current Sensor Fault-Tolerant Control of Induction Motor Drives In Different Control Regimes	DST-SERB, New Delhi	46.86	25.05.2019	25.05.2022	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 Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
27	DST(SERB)(226)/2019-2020/639/ECE	Performance Evaluation of Controller Placement For Software Defined Networks	DST-SERB, New Delhi	18.20	12.03.2019	12.03.2022	Prof. Jaisingh Thangaraj
28	CSIR(32)/2019-2020/663/ECE	Design And Development of Deployable Thin Film Based Evanescent Field Sensor To Check The Quality of Food From Adulteration.	CSIR, New Delhi	17.38	16.07.2019	16.07.2022	Prof. Sanjeev Kumar Raghuvanshi
29	DRDO(12)/2019-2020/680/ECE	Study And Design of Wideband Conformal Antenna Based On Dielectric Resonator With High Power Handling Capabilities	DRDO	9.72	30.10.2019	30.10.2020	Prof. Raghvendra Kumar Chaudhary
30	DST(SERB)(245)/2019-2020/689/ECE	On-Chip Silicon Photonic Switches For High Performance Computing And Datacenter Networks	DST-SERB, New Delhi	20.34	15.07.2019	15.07.2022	Prof. Devendra Chack
31	DST(SERB)(246)/2019-2020/690/ECE	Development of Signal Processing Framework For Uplink/Downlink of Multi-Cell, Multi-User Massive MIMO-FBMC-OQAM Based 5G Communication System	DST-SERB, New Delhi	13.02	13.12.2019	13.12.2021	Prof. Himanshu Bhusan Mishra

Department of Environmental Science & Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
32	DST(FICCI)/(1)/2019-2020/646/ESE	Environmental Management, Engineering Sciences	DST-SERB, New Delhi	3.72	30.4.2019	30.10.2019	Prof. Anshumali
33	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.	DST-SERB, New Delhi	50.70	31.03.2019	31.03.2023	Prof. Sunil Kumar Gupta
34	DST(FICCI)(2)/2019-2020/681/ESE	Biogeochemical Appraisal of The Groundwater Nitrate Pollution Due To Agriculture Activities In Son River Basin, India	DST-SERB, New Delhi	4.00	15.11.2019	15.05.2020	Prof. Anshumali
35	DST(SERB)(243)/2019-2020/683/ESE	Solar Driven Community Portable Water Purification System	DST-SERB, New Delhi	72.09	15.11.2019	15.11.2022	Prof. Saravanan Pichiah
36	IIT(ISM)/P/2019-2020/685/INSTITUTE	Development of Catalyst-Reductant System To Control Nox Emissions From Lean Burn Engines	IIT(ISM) Dhanbad	4.50	06.12.2019	05.12.2021	Prof. Pratchi Singh

Department of Fuel, Minerals & Metallurgical Engineering

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
37	WBPDCL(STPS)(1)/2019-2020/648/FME	Identification of Optimum Blending Ratio of Two Coals For Santaldih Thermal Power Station	West Bengal Power Development Corporation Limited	4.72	30.06.2018	30.06.2021	Prof. Sumantra Bhattacharya
38	WBPDCL(STPS)(2)/2019-2020/649/FME	Comparative Assessment of Coal Combustion Characteristics	West Bengal Power Development Corporation Limited	4.60	19.12.2018	19.03.2019	Prof. Sumantra Bhattacharya
39	DST(SERB)(TARE)(242)/2019-2020/678/FMME	Beneficiation And Extraction of Platinum And Platinum Group Elements (Pge) From Mangalwedha Soil	DST-SERB, New Delhi	18.48	18.10.2019	18.10.2022	Prof. N R Mandre
40	BCCL(3)/2019-2020/682/FMME	Development of Empirical Relationship Between Proximate Analysis And Heat Value of Patherdih Reject Coal	Bharat Coking Coal Limited	2.60	17.08.2019	17.01.2022	Prof. Shruvan Kumar
41	CCO/2019-2020/699/FMME	Characterization And Grading of Coal Samples Received From The office of The Coal Controllers, Ranchi, Jharkhand	Coal Controller'S Organisation, Ministry of Coal	2.90	10.02.2020	09.02.2021	Prof. Nikkam Suresh

42	PTPP/2019-2020/704/FMME	Characterization And Assessment of Utilization Potential of Coal For Power Plants	Parichha Thermal Power Plant	1.98	21.09.2019	21.09.2021	Prof.Shalini Gautam
43	OTPP/2019-2020/705/FMME	Assessment of Utilization Potential of Coal For Power Plants	Obra Thermal Power Plant	0.85	11.11.2019	11.11.2021	Prof.Shalini Gautam

Department of Humanities & Social Sciences

Sl. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
44	ICSSR(5)/2019-2020/676/HSS	Theatre And Dance Movement Therapy As Rehabilitative Tools For People With Mental Retardation: An Empirical Study	Indian Council of Social Science Research, New Delhi	6.30	23.09.2019	23.09.2021	Prof. Nirban Manna
45	ICSSR(6)/2019-2020/687/HSS	Designing Trilingual Dictionary of Lesser Known Munda Languages In Jharkhand: Towards Promotion And Dissemination of Indigenous Knowledge And Heritage	Indian Council of Social Science Research, New Delhi	4.73	01.12.2019	01.12.2020	Prof. Rajni Singh

Department of Management Studies & Industrial Engineering

Sl. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
46	DST(NSTMIS)(232)/2019-2020/652/MS	Developing A Framework of Critical Indicators For Success of Remanufacturing In India	DST-NSTMIS, New Delhi	16.57	16.07.2019	16.07.2021	Prof. Sandeep Mondal
47	DST(SERB)(248)/2019-2020/694/MS	Mixture Reliability Analysis of Remanufactured Products.	DST-SERB, New Delhi	6.60	16.01.2020	16.01.2023	Prof. Sandeep Mondal

Department of Mathematics & Computing

Sl. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
48	CSIR(31)/2019-2020/659/M&C	Mahematical Modeling of Elastic Waves In Fractional Order Thermoelastic Solids With Micro-Configurations And Intially Stressed Media	CSIR, New Delhi	15.76	05.07.2019	05.07.2022	Prof. Shishir Gupta
49	DST(SERB)(250)/2019-2020/698/M&C	Study of Implicator Based Lattice Valued Automata	DST-SERB, New Delhi	6.60	05.02.2020	05.02.2023	Prof. Seetala Prasad Tiwari

Department of Mechanical Engineering

Sl. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
50	DST(SERB)(227)/2019-2020/640/MECH. ENGG.	Development of Light Weight High Entropy Alloy (Hea) Nanocomposites	DST-SERB, New Delhi	45.88	18.03.2019	07.18.2022	Prof. Ashis Mallick
51	DST(FIST)(229)/2019-2020/643/MECH. ENGG.	Augmentation of Research Facility In The Department of Mechanical Engineering	DST, New Delhi	187.00	14.07.2019	17.07.2024	Prof. Shailendra Narayan Singh
52	DST(SERB)(235)/2019-2020/656/MECH. ENGG.	Model Updating & Aeroelastic Control of Delaminated Aircraft Structures	DST-SERB, New Delhi	46.80	29.06.2019	28.12.2022	Prof. P K Mahato
53	DST(FIST)(228)/2019-2020/642/MME	Upgradation of Power Hydraulics Lab	DST, New Delhi	15.20	28.03.2019	28.03.2024	Prof. Kabir Dasgupta
54	DST(SERB)(244)/2019-2020/684/MECH. ENGG.	Modeling of Wear In Radial Hydraulic Turbine	DST-SERB, New Delhi	36.11	13.11.2019	13.11.2022	Prof. Shibayan Sarkar

Department of Mining Engineering

Sl. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
55	CIL(11)/2019-2020/655/ME	Development And Field Trial of 500 T Capacity Sages-Iii For Use With Continuous Miners (Phase-Iii)	Coal India Limited	85.69	01.05.2019	01.11.2021	Prof. Upendra Kumar Singh
56	GTG/2019-2020/666/INSTITUTE	Preparation of Master Plan-2030 For Dhanbad Municipal Corporation	Dhanbad Municipal Corporation	32.15	30.06.2019	30.09.2021	Prof. Vasanta Govind Kumar Villuri

57	SAIL(3)/2019-2020/670/ME	Preparation of High-Resolution Satellite Images Obtained From of Cartosat-2 Satellite Liss-Iv/Liss-V Sensor On The Scale of Cadastral Map of Iron/Mn Ore Mines of SAIL	Steel Authority of India Limited	6.95	21.05.2019	20.07.2019	Prof. Vasanta Govind Kumar Villuri
58	DST(CCORD)(241)/2019-2020/671/ME	Investigation Into The Planning And Design Aspects Governing The Selective Coal Cutting Technology Using Surface Minor For Various Rock Conditions For Clean Coal Production	DST-CCORD, New Delhi	336.00	14.06.2019	31.07.2023	Prof. V M S R Murthy
59	NACL/2019-2020/672/ME	Scientific Study Regarding Blast Induced Ground Vibration, Control of Flying Fragment And Blasting In The Vicinity of Inhabited Area of Surface Coal And Bauxite Mines	National Aluminium Company Limited	5.90	01.10.2019	31.01.2020	Prof. B.S. Choudhary
60	RCPL/2019-2020/673/ME	Regarding Blast Induced Ground Vibration ,Control of Flying Fragment And Blasting In The Vicinity of Inhabited Area of Stone Quarries	Ramiya Constructions Pvt. Ltd.	3.90	20.7.2019	20.03.2022	Prof. Bhanwar Singh Choudhary
61	ECL(2)/2019-2020/674/ME	Scientific Study On Ultimate Pit Slope, Dump Slope And Monitoring of Slope Stability At Dalurband O.C.P, Pandaveswar Areas of Eastern Coalfield Limited (Ecl)	Eastern Coalfield Limited.	17.41	14.08.2019	14.05.2020	Prof. Gnananandh Budi
62	BCCL(2)/2019-2020/677/ME	Scientific Study Regarding Blast Induced Ground Vibration, Control of Flying Fragment And Blasting In The Vicinity of Inhabited Area of Surface Coal And Bauxite Mines	Bharat Coking Coal Limited	5.45	21.07.2019	21.03.2022	Prof. Bhanwar Singh Choudhary
63	BCCL(4)/2019-2020/688/ME	Scientific Study Regarding Blast Induced Ground Vibration, Control of Flying Fragment And Blasting In The Vicinity of Inhabited Area of Surface Coal Mines In Amalgamated Nt-St Jg Colliery, Lodna Area And Amalgamated Sudamdih-Patherdih Colliery, Eastern Jharia Area	Bharat Coking Coal Limited	10.89	04.07.2019	04.03.2022	Prof. Bhanwar Singh Choudhary
64	MoC(3)/2019-2020/693/ME	Evaluation Study of The Central Sector Schemes For Their Continuation Beyond 2019-20	Ministry of Coal	33.30	21.10.2019	21.04.2020	Prof. R M Bhattacharjee
65	BCCL(5)/2019-2020/697/ME	Scientific Study of Slope Stability Etc. of Kocp, Kuya Colliery As Per Provision of Regulation No. 106 of Coal Mines Regulation 2017	Bharat Coking Coal Limited	12.39	12.02.2020	11.08.2020	Prof. Gnananandh Budi
66	DST(SERB)(255)/2019-2020/706/ME	An Investigation of Ergo-Human Model To Evaluate The Functional Capacity of Coal Mine Workers	DST-SERB, New Delhi	38.50	26.02.2020	26.08.2023	Prof. Partha Sarathi Paul
67	SMS/2019-2020/707/ME	To Conduct A Research And Development Project On Blast Vibration Study In Stoping And Development of Both Footwall And Hangwall Lode At Tummalapalle Mine	Sancheti Mining Service L	3.54	04.08.2020	04.02.2022	Prof. Bhanwar Singh Choudhary

Department of Petroleum Engineering

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68	CSIR(33)/2019-2020/691/PE	Synergistic Effects of Nanoparticle And Surfactant In Formation of Nanoemulsion For Application In Enhanced Oil Recovery: Experimental And Molecular Dynamic Simulation Studies	CSIR, New Delhi	22.60	02.12.2019	02.12.2022	Prof. Ajay Mandal

CIE (Department of Physics)

SL. No.	Project No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
69	NVF/2019-2020/695/CIIE	Tinkering And Innovation Laboratory	Naresh Vashisht Foundation	810.00	11.12.2019	10.12.2022	Prof. Pankaj Mishra