

ONGOING R&D PROJECTS EXECUTED DURING FINANCIAL YEAR 2016-17
(APRIL 2016 TO MARCH 2017)

A. R&D Projects Carried forward from Previous years :						
Sl. No.	Project No.	Title of the Project	Coordinator(s)	Department	Total cost of the project (Rs. in lakhs)	Sponsoring agency
1.	DST(56)/2010-2011/280/AGP	To Strengthen the Post-graduate teaching in the area of Petro-physics in the Department of Applied Geophysics	Prof P R Mohanty	Applied Geophysics	120.00	DST
2.	UGC(70)/2010-2011/291/ME	To motivate and promote the culture of research at the undergraduate level for departments of engineering and technology, Deptt of Mining, ISM	Prof D C Panigrahi	Mining Engineering	5.00	UGC
3.	UGC(72)/2011-2012/296/AGP	UGC Assistance to the Department of Applied Geophysics, ISM, Dhanbad at the level of CAS-I	Prof P R Mohanty	Applied Geophysics	80.00	UGC
4.	UGC(73)/2011-2012/297/ECE	UGC Assistance to the Department of Electronics Engineering, ISM, Dhanbad at the level of DRS-I under SAP	Dr. Mukul Kumar Das Assoc. Prof	Electronics Engineering	28.50	UGC

5.	DST(59)/2011-2012/300/AAGL	Distribution and carbon isotopic variations of Benthic Foraminifera from Gas Hydrate Rich Peru Offshore	Dr. Ajay Kumar Bhaumik Asstt. Professor	Applied Geology	17.22	DST
6.	DST(60)/2011-2012/301/APH	Stable Isotope, Geochemical and Geochronological studies of Ajjanahalli and parts of gadag gold prospects, chitradurga schist belt, South India	Dr.S. Sarangi Assoc. Prof	Applied Geology	18.25	DST
7.	DST(61)/2011-2012/303/AGL	Comprehensive Monitoring and Assessment of Drought in India : Implications for process –based understanding of drought propagation	Dr. T H Syed Assoc. Prof.	Applied Geology	17.16	UGC
8.	MWR(3)/2011-2012/307/AGL	Artificial Recharge and Rainwater Harvesting Structures within the compounds of ISM, dhanbad	Prof B C Sarkar	Applied Geology	174.85	MWR
9.	MWR(3)/2012-2013/308/ESE	Estimation of Aquifer Potential in Jharia Coal Mining Region with Suitable Techniques to improve the recharge	Dr. P K Singh Assoc. Prof.	Environmental Science & Engg	28.54	MWR
10.	DAE(2)/2012-2013/309/AM	Pseudo-differential operators and wavelet transform involving fractional fourier transform on function and distribution spaces	Dr. Akhilesh Prasad Assoc. Prof	Applied Mathematics	10.07	DAE
11.	DST(65)/2012-2013/310/ME	To strengthen teaching	Prof P P	Mining Engineering	257.00	DST

		facilities in the area “Geomatics” and “Underground Space Technology”	Bahuguna Dr Dheeraj Kumar			
12.	DST(66)/2012- 2013/311/ECE	Modeling characterization and design of substrate Integrated waveguide based dielectric resonator antenna	Dr. Santanu Dwari Asstt Prof	Electronics Engineering	2.82	DST
13.	DST(67)/2012-2013/312/AC	Triplesalen-based metal – organic frameworks (mofs) and investigation on their functional applicability	Dr. Hari Pada Nayek	Applied Chemistry	25.40	DST
14.	UGC(76)/2012-2013/313/EE	On line condition monitoring of mine winder motor	Prof T K Chatterjee	Electrical Engineering	9.05	UGC
15.	CSIR(11)/2012- 2013/314/CSE	Design of machine learning techniques for specialized biological online database- mining	Dr. Haider Banka Assoc. Prof	Computer Science & Engineering	16.05	CSIR
16.	DST(68)/2012-2013/315/AC	A photochemical approach to surfactant free metal nanoparticles and nanoparticles and nanoclusters and their catalytic applications in organic reactions	Dr. Somnath Yadav Asstt. Prof	Applied Chemistry	27.00	DST
17.	UGC(77)/2012- 2013/316/CSE	Design and Implementation of group key generation protocols and its applications for secure multicast	Dr. Sachin Tripathi Asstt. Prof	Computer Science & Engineering	10.78	UGC

18.	UGC(78)/2012-2013/317/AGL	Facets of strain and vorticity attributes and their intraplate seismotectonic implication: A study in area around Son valley, Central India	Dr. R K Dubey Assoc. Prof	Applied Geology	11.42	UGC
19.	UGC(79)/2012-2013/318/ESE	Assessment of ground water level fluctuations with respect to changing patterns of rainfall in jharia coal mining region	Dr. P K Singh Assoc. Prof	Applied Chemistry	9.25	UGC
20.	UGC(80)/2012-2013/319/AM	Some aspects of mathematical programming problems involving generalized convex functions	Dr. Anurag Jayswal Asstt. Prof.	Applied Mathematics	9.79	UGC
21.	UGC(81)/2012-2013/320/HSS	Poetics of tension: contemporary Indian English women's poetry	Dr(Mrs.) Rajni Singh Assoc. Prof	Humanities & Social Sciences	8.55	UGC
22.	OIL(1)/2012-2013/321/PE	Studies on interfacial properties, wettability alteration and rheological behaviour of nano particle stabilized micro emulsions for its use in enhanced oil recovery	Dr. Ajay Mandal Assoc. Prof	Petroleum Engineering	24.33	OIL
23.	MOES(4)/2012-2013/322/AGP	Estimation of crustal stress and development of geo-mechanical earth models for few oil/gas fields of Eastern India.	Dr(Mrs.) Rima Chatterjee Assoc. Prof	Applied Geophysics	22.80	MOES

24.	UGC(82)/2012-2013/323/APH	Synthesis and characterization of nanocomposite thin films for optoelectronic applications	Dr S K Sharma Assoc. Prof	Applied Physics	6.28	UGC
25.	DST(69)/2012-2013/324/ECE	Studies on the effect of gaussian size distribution and inter diffusion on the optical absorption spectra of realistic III –V semi conductor quantum dot systems	Dr. Subindu Kumar Assoc. Prof	Electronics Engineering	4.32	DST
26.	DST(70)/2012-2013/325/PE	Carbon dioxide sequestration and simultaneous bio-fuel generation using micro-algae in a photo bio-reactor	Dr. Chandan Guria Assoc. Prof.	Petroleum Engineering	14.48	DST
27.	CSIR(12)/2012-2013/326	Development of fracturing fluid for high preswure high temperature (HPHT) reservoirs with minimum formation damage	Dr(Mrs.) Keka Ojha Assoc. Prof	Petroleum Engineering	14.00	CSIR
28.	CSIRNW(1)/2012-2013/327/ME	Geological and Technological Controls for underground coal gasification	Prof D C Panigrahi Prof A K Varma/AGL Prof V K Saxena/CE	Mining Engineering	91.60	CSIRNW
29.	ISRO(1)/2012-2013/328/AM	Stability and chaos in phto gravitational N-Body	Dr. B S Kushvah Asstt. Prof	Applied Mathematics	16.97	ISRO

		problem with Solar Wind Drag				
30.	MOM(1)/2012-2013/329/FME	Beneficiation of low-grade iron ore and tailings by selective flocculation	Prof N R Mandre	Fuel & Mineral Engg	25.82	MOM
31.	UGC(82)/2013-2014/330/MS	Corporate Entrepreneurship in India : an Explanatory Study	Prof G S Pathak	Management Studies	7.76	UGC
32.	UGC(83)/2013-2014/331/MS	System Dynamics based decision suport system for Indian micro-finance institutions	Prof Chandan Bhar	Management Studies	6.44	UGC
33.	UGC(84)/2013-2014/332/MS	Developing an accounting system for small and micro enterprises of Jharkhand	Prof J K Pattanayak	Management Studies	5.38	UGC
34.	UGC(85)/2013-2014/333/MS	A framework of entrepreneur success among aspiring entrepreneurs of micro enterprises in Jharkhand region	Dr. Niladri Das Asstt. Prof.	Management Studies	6.57	UGC
35.	UGC(86)/2013-2014/334/PE	Functionalization of nano fly ash for drilling fluid applications	Prof A K Pathak	Petroleum Engineering	13.04	UGC
36.	UGC(87)/2013-2014/335/PE	Development of Nanoparticle induced chemicals and consolidating loose formation to improve oil production	Dr(Mrs.) Keka Ojha Assoc. Prof	Petroleum Engineering	13.23	UGC
37.	UGC(88)/2013-2014/	Selective catalytic oxidation	Dr. Chandan	Petroleum	14.54	UGC

	336/PE	of Karanja Oil : An alternative source of Petrochemical products	Guria Assoc. Prof	Engineering		
38.	UGC(89)/2013-2014/ 337/AM	Modeling the spatiotemporal complexity of ecoepidemiological systems: A dynamical system approach.	Prof R K Upadhyay	Applied Mathematics	3.49	UGC
39.	UGC(90)/2013-2014/ 338/MS	Testing theory in Process Industry Transformation Systems Using Case Studies	Dr. K S Thyagaraj Asstt. Prof	Management Studies	9.15	UGC
40.	DST(71)/2013-2014/ 339/ME&MME	To augment the research facilities in the department of Mechanical Engg, Indian School of Mines, Dhanbad	Prof P S Mukherjee	Mechanical Engineering	50.00	DST
41.	UGC(91)/2013-2014/ 340/PE	Experimental and Modeling Studies of Flow of Paraffinic Crude Oil through a Complex Flow Loop	Dr. T K Naiya Asstt. Prof	Petroleum Engineering	13.78	UGC
42.	UGC(92)/2013-2014/ 341/ECE	Design and Characterization of Compact, High Performance Patch Antennas Loaded with Matamaterials	Dr. Santanu Dwari Asstt. Prof	Electronics Engineering	7.20	UGC
43.	UGC(93)/2013-2014/ 342/ECE	Implementation of Spectrum Sensing for Cognitive Radio	Prof Debjani Mitra	Electronics Engineering	9.99	UGC
44.	UGC(94)/2013-2014/ 343/ECE	Real-time Implementation of Speech Coders”	Prof S. Bhattacharya	Electronics Engineering	7.58	UGC
45.	DST(72)/2013-2014/ 344/ECE	To augment the research facilities in the deptt of Electronics Engineering, ISM, Dhanbad	Dr. Sushrut Das Asstt. Prof.	Electronics Engineering	120.00	DST
46.	UGC(95)/2013-2014/	Development of hybrid off-	Dr. Nitai Pal	Electrical	7.16	UGC

	345/EE	grid power supply system for remote areas	Assoc. Prof	Engineering		
47.	UGC(96)/2013-2014/ 346/EE	Development of a load frequency control system with A PID controller designed through A Frequency Domain Matching Method	Prof S Pan	Electrical Engineering	9.33	UGC
48.	UGC(96)/2013-2014/ 347/EE	Simulation and real-time implementation of smart grid	Dr. Vivekanand Mukhopadhyay Asstt. Prof	Electrical Engineering	5.55	UGC
49.	DST(73)/2013-2014/ 348/AC	High Performance Multifunctional Modified Guar Gum for Wastewater and Industrial Effluent Treatment	Dr. Sagar Pal Assoc. Prof	Applied Chemistry	24.94	DST
50.	DST(74)/2013-2014/ 349/ME&MME	Experimental Investigation on flow induced vibration of elastically mounted bluff bodies	Dr. L A Kumar Swamydash	Mining Machinery Engineering	17.40	DST
51.	DST(75)/2013-2014/ 350/PE	Development of Foam based Drilling Fluid for CBM Wells	Dr(Mrs.) Keka Ojha Assoc. Prof	Petroleum Engineering	16.16	DST
52.	DST(76)/2013-2014/ 351/AGL	Geodynamics and Structural Evolution of Kachchh Province	Prof S Mohanty	Applied Geology	32.21	DST
53.	DST(77)/2013-2014/ 352/AGP	Geodynamic Modeling of the Eastern Subduction Margin of India	Dr. P K Khan Assoc. Prof.	Applied Geophysics	28.44	DST
54.	UGC(98)/2013-2014/ 353/Mech	Critical Analysis of Heat distribution in submerged arc welding process	Dr.Somnath Chattopadhyay Assoc. Prof	Mechanical Engineering	10.21	UGC

55.	UGC(99)/2013-2014/ 354/Mech	Wear and Friction study of nano composites	Dr. K K Singh Asstt. Prof	Mechanical Engineering	6.85	UGC
56.	ICSSR(2)/2013- 2014/355/MS	Evaluating the efficacy of financial inclusion in Jharkhand	Dr. Niladri Das Asstt. Prof	Management Studies	3.00	ICSSR
57.	DST(78)/2013-2014/ 356/AC	Mesoporous mixed oxide supported gold nanoparticles catalysts for oxidant free dehydrogenation reaction of alcohol	Dr. Biswajit Chowdhury Assoc. Prof	Applied Chemistry	48.96	DST
58.	MOES(5)/2013- 2014/357/AGP	Seismic Hazard Estimation for Bihar-Jharkhand Using GPS strain, seismicity and seismic study	Dr. P N Singha Roy Assoc. Prof.	Applied Geophysics	139.78	MOES
59.	DST(79)/2013-2014/ 358/AGL	Petrological and Tectonic Significance of Archaean Banded Iron Formation (BIF) from parts of the Palghat Couvery Shear Zone (PCSz) of South India	Dr(Ms) Upama Dutta Asstt. Prof	Applied Geology	9.00	DST
60.	DST(80)/2013-2014/ 359/APH	Density Functional theory of freezing transitions and properties of inhomogeneous systems	Dr. Pankaj Mishra Asstt. Prof.	Applied Physics	15.46	DST
61.	DST(81)/2013- 2014/360/MECH	Diagnosis of a vibrating Structural failure through modal analysis	Mr. M L Chandravanshi Asstt. Prof	Mechanical Engineering	17.03	DST
62.	DST(82)/2013-2014/ 361/AGL	To augment the research facilities in the Deptt of Applied Geology, ISM, Dhanbad	Prof A K Varma	Applied Geology	238.00	DST

63.	CSIR(12)/2013-2014/362/AM	Study of torsional wave in anisotropic and non-homogeneous media	Prof S Gupta	Applied Mathematics	10.92	CSIR
64.	DST(83)/2013-2014/ 363/CE	Dynamic Instability of Elastic Structural Elements under Deterministic Loading	Dr. Sarat Kumar Panda Asstt. Prof.	Civil Engineering	16.80	DST
65.	DST(84)/2013-2014/364/AGP	Magnetotelluric Investigations in the Geothermal Province of Bakreshwar, West Bengal	Prof Shalivahan	Applied Geophysics	19.10	DST
66.	DST(85)/2013-2014/365/AGP	Seismic & Resistivity imaging for detection of subsurface cavities associated with coal working	Prof P R Mohanty	Applied Geophysics	15.62	DST
67.	DST(86)/2013-2014/366/AM	Generalized convexity and its applications to mathematical programming problems	Dr. Anurag Jayswal Asstt. Prof	Applied Mathematics	11.64	DST
68.	IPEM(1)/2013-2014/367/INST	International Project India 4EUII under Erasmus Mundus	Prof V M S R Murthy AD(IR&AA)	Institutional Project	2.47	Erasmus Mundas
69.	DST(87)/2013-2014/368/Mech	Synthesis and characterization of dental polymeric nanocomposite materials	Dr. Ashis Mallick Assoc. Prof	Mechanical Engineering	54.00	DST
70.	CSIR(13)/2013-2014/369/PE	Experimental and Modeling Studies of Chemically Enhanced Water Alternating Gas (CEWAG) Injection for Enhanced Oil Recovery	Dr. Ajay Mandal Assoc. Prof	Petroleum Engineering	17.97	CSIR

71.	DST(88)/2013-2014/ 370/AC	Synthesis and Functionalization of graphene for controlled dispersion of polymer blends”	Dr. G C Nayak Asstt. Prof.	Applied Chemistry	23.60	DST
72.	CSIR(14)/2013- 2014/371/AC	Catalytic transformation of Glycerol to Acrolein Over Mesoporous Silica Supported acid Functionalized Transition Metal	Dr. Biswajit Chowdhury Assoc. Prof	Applied Chemistry	16.92	CSIR
73.	DST(89)/2013-2014/ 372/AC	To augment the research facilities in the Department of Applied Chemistry	Prof G. Udayabhanu	Applied Chemistry	150.00	DST
74.	DST(90)/2013-2014 / 373/APH	Studies on rare-earth ions doped upconversion nano-phosphors as optical sensors	Dr. Kaushal Kumar Asstt. Prof	Applied Physics	23.28	DST
75.	DST(91)/2013-2014/ 374/AC	Design of Novel bifunctional gold Ti and Fe-modified zeolite functional materials for the catalytic oxidation of hydrocarbons	Dr. Biswajit Chowdhury Assoc. Prof	Applied Chemistry	35.96	DST
76.	DAE(3)/2013-2014/ 375/AGL	Characterization of argillite rocks of Vindhyan and Cuddapah super-groups in assessing their suitability as host rock for deep geological repository for high level radioactive waste disposal	Dr. R K Dubey Assoc. Prof	Applied Geology	28.50	DAE
77.	DST(92)/2013-2014/ 376/APH	To Augment the Research Facilities in the Department of Applied Physics, Indian	Prof A K Nirala	Applied Physics	185.00	DST

		School of Mines, Dhanbad				
78.	OIL(2)/2013-2014/ 377/PE	Study of Organic Solid Deposition in the Petroleum Reservoir Rock	Dr. Vikas Mahto Assoc. Prof	Petroleum Engg	8.58	OIL
79.	DST(93)/2013-2014/ 378/APH	Design and fabrication of metal oxide-based transparent thin film transistors	Dr. R Thangavel Asstt. Prof	Applied Physics	23.28	DST
80.	DST(94)/2013-2014/ 379/APH	Development of MgB ₂ based conduction cooled superconducting current leads with high critical current for cryogenic devices	Dr. P M Sarun Asstt. Prof	Applied Physics	26.14	DST
81.	CSIR(15)/2013- 2014/380/APH	Development of Rare earths doped upconversion phosphor particles for fingerprint detection and sensors	Dr. Kaushal Kumar Asstt. Prof	Applied Physics	12.25	CSIR
82.	DST(95)/2013-2014/ 381/ESE	Influence of chlorine disinfectant and natural organic matter gradients on disinfection by-product formation in drinking water of some Indian cities	Dr. Brijesh Mishra Asstt. Prof	Environmental Science & Engineering	20.60	DST
83.	DST(96)/2013-2014/ 382/APH	Tuning of Schottky barrier height	Dr. Achamma Bobby	Applied Physics	20.60	DST
84.	DST(97)/2013-2014/ 383/APH	Development of Hybrid Polymer-Nanoparticle Based White Light Emitting	Dr. Prashant Kumar Sharma Asstt. Prof	Applied Physics	20.04	DST

		Diodes (WLEDs) and Solar Cells				
85.	DST(98)/2014-2015/384/AGP	Geotechnical Characterization of Jharia Coal Field Area Using Geophysical Techniques	Dr. S K Pal Asstt Prof	Applied Geophysics	31.59	DST
86.	DST(99)/2014-2015/385/APH	Investigation of electron scattering phenomena in biological and environment sensitive molecules	Dr. B K Antony Assoc. Prof	Applied Physics	26.56	DST
87.	DAE(4)/2014-2015/386/APH	Synthesis and Assembly of Hybrid Nanostructured Materials for Explosives, Narcotics and Harmful Chemical Detection	Dr. P K Sharma Asstt. Prof	Applied Physics	24.71	DAE
88.	DST(100)/2014-2015/387/AC	Biodegradable imprinted nanomaterials: A unique combination of selectivity sensitivity & biocompatibility	Dr(Mrs.) Rashmi Madhuri Asstt. Prof	Applied Chemistry	23.18	DST
89.	DST(101)/2014-2015/388/AC	A Study of Polymeric Layer on Efficiency Enhancement of Upconversion Nanoparticles for Biomedical Applications	Dr. Sumanta Kumar Sahu Asstt Prof	Applied Chemistry	24.80	DST
90.	DST(102)/2014-2015/389/FME	Effect of feed characteristics on the performance of dense medium cyclones treating metallurgical coal	Mr. Anand Anupam Asstt. Prof	Fuel & Mineral Engineering	21.34	DST
91.	DST(103)/2014-2015/390/APH	Development of multicolour long lasting phosphors	Prof Jairam Manam	Applied Physics	46.19	DST

		based on colour conversion process”				
92.	DST(104)/2014-2015/391/ME	Stability analysis of roof rock and establishing safe hard cover for coal exploitation below ground during conversion of opencast mine to underground mine	Dr. A K Verma Asstt. Prof	Mining Engineering	8.76	DST
93.	DST(105)/2014-2015/392/AC	Kinetics and Mechanistic Approach towards Water Splitting by Ruthenium Complexes having Polypyridyl Ligands	Dr. Sumanta Kumar Padhi Asstt Prof	Applied Chemistry	25.00	DST
94.	DST(106)/2014-2015/393/AM(FIST)	To Augment the Research Facilities in the Department of Applied Mathematics, Indian School of Mines, Dhanbad	Dr. S P Tiwari Assoc. Prof Dr. B S Kushwaha Asstt Prof (Co-PI)	Applied Mathematics	37.50	DST
95.	DST(107)/2014-2015/394/AC	Catalytic partial oxidation of glycerol to acrylic acid over polymer-bound immobilised metal complexes under mild condition	Dr. Chanchal Haldar Asstt. Prof	Applied Chemistry	24.40	DST
96.	DST(108)/2014-2015/395/MS	Developing a framework of critical indicators for entrepreneurial success of Science and Technology (S&T) graduates in Eastern India	Dr. Niladri Das Asstt. Prof	Management Studies	10.72	DST
97.	MoEs(6)/2014-2015/396/ESE	Phosphorus fractionation in surface sediments: An	Dr. Anshumali Asstt Prof	Environmental Science & Engg	32.46	MoES

		Implication in Restoration and Conservation of Govind Balabah Pant Sagar, Singrauli, MP				
98.	UGC(100)/2014-2015/397/ME	UGC-BSR Research Start-Up-Grant for newly recruited faculty at Assistant Professors level in Science Department	Dr. A K Verma Asstt. Prof	Mining Engineering	6.00	UGC
99.	DST(109)/2014-2015/398/AC	Synthesis of polynuclear metal complexes from metalloligands of group 14 elements and their catalytic activities	Dr. H P Nayek Asstt. Prof	Applied Chemistry	52.80	DST
100	IPEM(2)/2014-2015/399/INST	International Project AREAS+ under Erasmus Mundus”	Dr. Biswajit Chowdhury Assoc. Prof	Applied Chemistry	2.40	Partnership Agreement
101	ISRO(2)/2014-2015/400/ECE	Photonic Microwave Arbitrary Waveform Generation with adjustable Chirp parameter based on remote sensing applications	Dr. S K Raghuvanshi Asstt Prof	Electronics Engg	14.62	ISRO
102	DRDO(1)/2014-2015/401/ECE	Studies on Multi-Element Multi-Segment Dielectric Resonator Antenna for Wireless Application	Dr. R K Gangwar Asstt. Prof	Electronics Engg	17.00	DRDO
103	MHRD(CoE)/RE/2014-2015/402/INST	Establishment of Centre of Excellence for Training and Research in Frontier Areas of Science and Technology (FAST) in Renewable Energy	Dr. Mukul Das Dr. R Thangavel Dr. Biswajit Chowdhury Dr. Jitendra Kumar	ECE, APH, AC, MME	400.00	MHRD For Establishing Centre of Excellence in Renewable Energy

			DR. Tanmoy Maity			
104	DST(110)/2014-2015/403/PE(FIST)	To Augment the Research Facilities in the Department of Petroleum Engineering, Indian School of Mines, Dhanbad	Dr.(Mrs) Keka Ojha Assoc. Prof	Petroleum Engg	160.00	DST(FIST)
105	DST(111)/2014-2015/404/AGL	“Landslide risk analysis of road cut hill slopes near Sonapur, Meghalaya, India”	Dr. Kripamoy Sarkar Asstt Prof	Applied Geology	22.63	DST
106	DST(112)/2014-2015/405/MECH	Active Modal Vibration Control of Composite Structure”	Dr. Prashanta Kumar Mahato Asstt Prof	Mechanical Engg	27.10	DST
107	CSIR(16)/2014-2015/406/FME	Characterization and Beneficiation Studies on Low Grade Graphites from the state of Arunachal Pradesh,	Prof Nikkam Suresh	Fuel & Mineral Engineering	14.72	CSIR
108	MoES(6)/2014-2015/407/AGL	Characterization, quantification and genesis of gas hydrate in Krishna-Godavari Basin, Bay of Bengal using benthic foraminiferal, geochemical and geophysical studies”	Dr. A K Bhaumik Asstt. Prof	Applied Geology	64.92	MoES
109	ICPR(1)/2014-2015/408/HSS	Traversing the Territory of Comparative Philosophy	Dr. Gyan Prakash/HSS	ICPR	2.00	ICPR
110	DST(113)/2014-2015/409/AGL	“Geochemistry and Petrogenesis of different granitoid suites associated with the Tsundupalle Greenstone Belt, Eastern	Dr Jinia Nandi, Applied Geology	DST	31.70	DST

		Dharwar Craton (EDC), South India: Implications for crustal evolution during Archaean”				
111	CIL(3)/2014-2015/410/AGP	An integrated geo-physical approach for tectonic study in Moher main coal basin of Singrauli coalfield using 3D inverse modeling of Gravity, Magnetic and AMT data”	Dr. U K Singh, AGP	CIL	289.70	CIL
112.	UGC(101)/2015-2016/411/PE	UGC Assistance under Special Assistance Programme (SAP) – Review of the programme in the Department of Petroleum Engineering, ISM for upgradation/continuation from DRS-II to DRS-III	Prof S Laik	Petroleum Engineering	106.00	UGC
113.	UGC(102)/2015-2016/412/APH	UGC Assistance under Special Assistance Programme (SAP) – Review of the programme in the Department of Applied Physics, ISM for upgradation/continuation from DRS-I to DRS-II	Prof A K Nirala	Applied Physics	125.70	UGC
114.	UGC(103)/2015-2016/413/FME	UGC Assistance under Special Assistance Programme (SAP) – Review of the programme in the	Prof R Venugopal	Fuel & Mineral Engg	150.00	UGC

		Department of Fuel & Mineral Engineering, ISM for upgradation/continuation from DRS-II to DRS-III				
115.	ICSSR(3)/2015-2016/414/MS	Green Consumption Behaviour of Urban Consumers in Rajasthan – An Empirical Study on FMCG Products	Dr. Bibhas Chandra Assistant Professor	Management Studies	3.18	ICSSR
116	DST(114)/2015-2016/415/AC	Novel modified biopolymer based hydrogels and nanogels: synthesis, characterization and application	Dr. Sagar Pal Associate Professor	Applied Chemistry	35.26	DST
117	MoES(7)/2015-2016/416/AGP	Delineation of blind faults and its geometry around Kishanganj vis Bayesian neural network inversion of gravity data	Dr. Saumen Maiti Assistant Professor	Applied Geophysics	38.56	MoES
118	MOM(2)/2015-2016/417/ME	Development of Low Density Emulsion Explosives for Energy Efficient Blasting in Environmentally Sensitive Areas	Prof A K Mishra	Mining Engineering	29.13	MoM
119	DST(115)/2015-2016/418/AC	Metal Free Oxidative C-N Bond Formation: Synthesis of N-Heterocycles	Dr Soumitra Maity Assistant Professor	Applied Chemistry	35.00	DST
120	MCIT(3)/2015-2016/419/CSE	Information Security Education and Awareness (ISEA) Phase-II	Dr. Sachin Tripathi Assistant Professor	Computer Science & Engineering	148.10	MCIT

121	DST(116)/2015-2016/420/CSE	Design of Reliable and Energy Efficient Transport Layer Protocols for Ad-hoc and Sensor Network	Dr. Sachin Tripathi Assistant Professor	Computer Science & Engineering	33.13	DST
122	DST(117)/2015-2016/421/APH	Atomistic simulations of boron nanoclusters for hydrogen storage and electro-optical applications	Dr. Sridhar Sahu Assistant Professor	Applied Physics	25.23	DST
123	DST(118)/2015-2016/422/AC	Vanadium and Copper Catalyst Grafted on Graphene Oxide For Oxidation of Hydrocarbons and Alcohols	Dr. Chanchal Halder Assistant Professor	Applied Chemistry	52.92	DST
124	DST(119)/2015-2016/423/AGL	Integrated Geological-Geotechnical approach for prediction and mitigation measures of landslides along road-cut slopes of area around Gangtok-Mangan, Teesta Valley, Sikkim	Dr. R K Dubey Associate Professor	Applied Geology	22.18	DST
125	MoES(8)/2015-2016/424/AGL	Origin and evolution of crust in the NE part of the Singhbhum craton: constraints from geochemistry and geochronology of granitoids”	Dr. Sukanta Dey Associate Professor	Ministry of Earth Sciences	24.89	MoES
126	MoES(9)/2015-2016/425/ME	Rockfall hazard assessment along the Road Cut Slopes on NH-44A between Aizawl city and Lengpui Airport, Aizawl, Mizoram, India	Dr. A K Verma Asstt Professor/ME & Dr. K Sarkar Asstt	Ministry of Earth Sciences	34.18	MoES

			Professor/AGL			
127	MoES(10)/2015-2016/426/AGL	Unified Geological-Morphometrical-Geotechnical Study for Prediction and Mitigation of Landslides along Road-cut Hills of Rishikesh-Joshimath route, Kumaon Himalaya	Dr. R K Dubey Associate Professor	Applied Geology	38.00	MoES
128	DST(120)/15-16/427/AM	“Study of various graph domination problems on restricted graph classes”	Dr. Dinabandhu Pradhan Asstt. Professor	Applied Mathematics	17.67	DST
129	OIL(3)/2015-2016/428/PE	Synthesis and extraction of surfactants from natural resources and their characterization for application in enhanced oil recovery	Dr Ajay Mandal, Associate Professor	Petroleum Engineering	22.61	OIL
130	DST(121)/2015-2016/429/ESE	Geochemical investigation of Heavy metals and REEs in Water and Surface Sediments: An Implication in Restoration and Conservation of Ken and Betwa Rivers	Dr. Anshumali, Assistant Professor	Environmental Science & Engg.	24.50	DST
131	CSIR(17)/2015-2016/430/AM	A PAIR OF FRACTIONAL POWERS OF BESSEL WAVELET TRANSFORMS AND PSEUDO-DIFFERENTIAL OPERATORS	Dr. Akhilesh Prasad, Associate Professor	Applied Mathematics	15.00	CSIR
132	DRDO(2)/2015-2016/431/CSE	Energy Efficient Intruder Detection Schemes for WSN	Dr. Chiranjeev Kumar, Associate	Computer Science & Engg	28.52	DRDO

		using Learning Based Techniques	Professor			
133	DST(122)/2015-2016/432/APH	Preparation and characterization of lanthanides doped materials for multifunctional applications	Dr. Vineet Kumar Rai, Assoc. Professor	Applied Physics	25.35	DST
134	DST(123)/2015-2016/432(A)/ECE	Design and Development of Circularly Polarized Dielectric Resonator Antenna for Wireless Application	Dr. R K Gangwar, Assistant Professor	Electronics Engineering	25.45	DST
135	DST(124)/2015-2016/433/APH	Design and Fabrication of Ultrasensitive Optical Biosensors based on Surface Plasmon Models in Gold Nanostructures	Dr. M R Singh, Assistant Professor	Applied Physics	21.80	DST
136	ICHR(1)/2015-2016/434/HSS	An Introductory Study to the History and Evolution of Comic Art in India	Dr. Aju Aravind, Assistant Professor	Humanities & Social Sciences	4.00	ICHR
137	HUDCO(1)/2015-2016/436/CE	Investigation on Mechanical and Durability Properties of Self Compacted Concrete Prepared with Recycle Coarse Aggregate from C&D Waste	Dr. S K Panda, Assistant Professor	Civil Engineering	16.41	HUDCO
138	DRDO/(3)/2015-2016/437/Mech Engg.	Design and Fabrication of an Experimental Facility for Measurement of Acoustic Impedance Afterburner Screech Liner	Dr. Rabindra Nath Hota, Associate Professor	Mechanical Engg	99.50	DRDO
139	MHRD/(FDC)/2015-	“(PMMMNTT) Pandit	Prof. A.K.Nirala,	Applied Physics	200.69	MHRD

	2016/438/INST	Madan Mohan Malaviya National Mission on Teachers and Teaching	Dept. of Applied Physics Prof. P C Pal, Dept. of App. Math, Dr. Mahendra Yadav, Dept. of Applied Chemistry			
140	UGC(104)/2015-2016/439/ME	UGC Assistance under Special Assistance Programme (SAP) – Review of the programme in the Department of Mining Engineering, Indian School of Mines for upgradation/continuation from CAS III to CAS IV	Prof D.C.Panigrahi	Deptt of Mining Engineering	300.00	UGC
141	DBT(1)/2015-2016/440/FME	HyWATER – Treatment of Contaminated drinking water using a hybrid low-cost process	Dr. Barun Kumar Nandi, Assistant Professor	FME	33.88	DBT
142	MOC(1)/2015-2016/441/ME	Techno-economic Evaluation and Performance Behaviour of Self Advancing (Mobile) Goaf Edge Supports (SAGES) (Phase – II)	Prof. U.K.Singh	Mining Engineering	33.04	MOC

143	DST(125)/2015-2016/442/ECE	Special Lecture Tour Programme (Exploratory Exchange)	Dr. Subindu Kumar, Asstt. Professor	ECE	1.88	DST
144	MoEF(1)2015-16/443/ESE	Remediation of Ground Water Contaminated with Hexavalent Chromium in Sukhina Valley, Odisha, using Nano Zero Valent Iron (nZVI) Technology	Dr. Alok Sinha, Asstt. Professor/ESE	ESE	24.80	MoEF
145	DRDO(4)/2015-16/444/ Mech. Engg.	Study, Investigation and Development of Machining Parameters of FRP Composites using a Laser to Maintain Better Surface Integrity	Dr. A.K.Das, Asstt. Professor	Mech. Engineering	9.7	DRDO
146	DST(126)/2015-16/445/ ME	Training cum field workshop for Numerical Simulation of Landslide Studies	Dr. A.K.Verma, Asstt. Professor	Mining Engineering	3.65	DST
147	DST/SERB(127)/2015 – 16/446/MME	Design and Development of Series-Parallel Hydraulic Hybrid Energy Efficient Excavator having Displacement Controlled Actuators	Dr. Jayanta Das, Asstt. Professor	MME	22.20	DST
148	DST(128)/2015-16/447/ AGL	Geospatial Fusion of Parameters Controlling Urogenic Gold Mineralization and Delineation of Gold Prospective Zones within Chandil Formation North	Dr. Sahendra Singh, Asstt. Professor	AGL	38.50	DST

		Singhbhum & Mobile belt, Eastern Indian Craton – A Regional Scale Analytical Approach Through the Integrated Applications of GIS, SPS and Remote Sensing Technology				
149	DST/SERB(129)/2015-16/448/Chem. Engg.	Development of an Efficient Pd-Cu Bimetallic Catalyst for the Catalytic CO ₂ Hydrogenation for Methanol Production	Dr. Siddhartha Sengupta, Asstt. Professor	Chemical Engg.	22.15	DST
150	MOC(2)/2015-2016/449/Civil Engg.	Constructing Structure on Backfilled Opencast Coal Mines: An Attempt to Suggest Viable Methodologies	Prof. S.C.Dutta,	Department of CE	304.12	MOC
151	MOM(16)2015-16/450/ME	Assessment and Prediction of Land Surface Deformation due to Underground Metal Mining in Northern Aravali Range of Hills using Microwave Remote Sensing Data sets and Ground Based Observations	Prof. Dheeraj Kumar Md. (Dr) Soyeb Alam	Department of ME	45.00	MoM
152	ICPR/2015-16/451/HSS	Ethical Leadership: A Study on Macintyre and Levins	Dr. Sarita Kar, Asstt. Professor	Department of HSS	3.00	ICPR
153	DST/SERB(130)/2015-16/452/AGL	Stable and Radiogenic Isotope Geochemical, Geochronological, and Fluid Inclusion Studies of Granite	Dr. S. Sarangi, Associate Professor	Department of AGL	50.82	DST

		– Gneiss hosted Gold Deposits of the Eastern Dharwar Craton at Chigarguntha (South KGF) and Jonnagiri, Andhra Pradesh India				
154	MDWS/2015-16/453/ESE	Control of Disinfection By-products Formation in Drinking Water Supplies of India	Dr. S. K. Gupta, Associate Professor	Department of ESE	25.20	MDWS
155	DST(SERB)(131)/2015-16/454/MECH. ENGG	Investigation on Hydrokinetic Turbine Performance Corresponds Variable Rotor Shape and Surface Velocity using Different Augmentation Techniques	Dr. Shibayan Sarkar, Asstt. Professor	Department of MECH. ENGG	20.62	DST
156	DST(SERB)(132)/2015-16/455/MECH. ENGG	Early Detection of Bearing Fault and Fatigue Crack in a Rotor System	Dr. Sachin Kr. Singh, Asstt. Professor	Department of MECH. ENGG.	31.33	DST
157	MoES(11)/2015-16/456/AGP	Investigation on Crustal Stress, Seismic Velocity and Porosity in Rock and Deformation Modelling	Prof. Rima Chatterjee,	Department of AGP	20.01	MoES
158	DST(SERB)(133)/2015-16/457/AGL	Geochemical Characterization of Malangtoli Volcanics and Emplacement Mechanism over Singhbhum Granite in and around Kendujhar District, Odisha	Dr. Pranab Das, Asstt. Professor	Department of AGL	25.73	DST
159	DST(SERB)(134)/2015-	Sensorless Speed Control of	Dr. Sukanta Das,	Department of	30.84	DST

	16/458/Electrical Engg.	Brushless Doubly Fed Reluctance Motor Drive Utilizing Model Reference Adaptive Controller	Asstt. Professor	Electrical Engg.		
160	DST(SERB)(135)/2015-16/459/CE.	Experimental Investigation on Characteristic Behaviour of Two Nearby Embedded Shallow Foundations	Dr. Lohitkumar Nainegali, Asstt. Professor	Department of CE	18.00	DST
161	DST(SERB)(136)/2015-16/460/CE	Low-cost Sustainable Approach of Improving lateral load resisting capacity of unreinforced masonry structures	Dr. Sanket Nayak, Asstt. Professor	Department of CE	23.76	DST
162	CIL (4)/2015-16/461/ Mining Engg.	Development of guideline for prevention and mitigation of explosion hazard by risk assessment and determination of explosibility of Indian coal incorporating risk based mine emergency evacuation and re-entry protocol – CIMFR, Dhanbad, ISM, Dhanbad and CIL, Kolkata.	Prof. D. C. Panigrahi	Department of Mining Engg.	833.57	CIL

B. R&D Projects Received during the Financial year 2016-17 (APRIL 2016 TO MARCH 2017)

Sl. No.	Project No.	Title of the Project	Coordinator(s)	Department	Total cost of the project (Rs. In lakhs)	Sponsoring agency
1	DST(SERB)(137)/2016-	Arsenic Removal from	Dr. S. R.	Dept. of	5.50	DST

	17/462/ESE	Groundwater using Nano-adsorbents	Samadder, Asstt. Professor	Environmental Sc. & Engg.		
2	DST/(138)2016-17/463/ME	Landslide Stability Analysis in Subzero Environment in and around Rohtang Pass or Kasang Hydroelectric Project of Himachal Pradesh, India.	Dr. A. K. Verma, Asstt. Professor	Dept. of Mining Engg.	49.73	DST
3	DRDO/(5)/2016-17/464/CSE	Node Mobility Techniques for Tactical IP Networks	Dr. Chiranjeet Kumar, Assoc. Professor	Dept. of CSE	9.00	DRDO
4	Tata Steel & ISM(MoU)/2016-17/465/Instt.	Detailed Characterization and Analysis of Commercial Flocculants for Flocculation of Iron Ore	Dr. Sagar Pal, Assoc. Professor	Dept. of Applied Physics	8.00	Tata Steel & ISM(MoU)
5	DST(SERB)(139)/2016-2017/466/CE	Coupled Three Dimensional Non-linear Finite Element Analysis of Geocell Reinforced Railway Tracks with Mine Waste	Sowmiya Chawla, Asstt. Professor	Dept. of Civil Engineering	24.68	DST(SERB)
6	CSIR(18)/2016-2017/467/APH	Upconverting Luminescent Materials in Display Devices and Security Purposes	Dr. Vineet Kumar Rai, Associate Professor	Dept. of Applied Physics.	20.36	CSIR
7	CSIR(19)/2016-2017/468/App. Math	Mathematical Study of Solute Transport in Porous Formations	Dr. M. K. Singh, Associate Professor	Dept. of Applied Mathematics	16.79	CSIR
8	CSIR(20)/2016-2017/469/App. Math	Numerical Computation of Pressure Generation Mechanism in Tilted Pad Slider Bearing Lubrication	Dr. P.S.Rao, Asstt. Professor	Dept. of Applied Mathematics	16.96	CSIR

9	CSIR(21)/2016-2017/ 470/EE	Development of New Control Methodology to Improve the Fault Ride Through Capability of Doubly Fed Induction Generator (DFIG)	Dr. Kalyan Chatterjee, Associate Professor	Dept of EE	21.76	CSIR
10	DST(FIST) /(140)/2016-2017/ 471/ESE	To Augment the Post-graduate Teaching and Research Facilities in the Department of Environmental Science & Engineering, Indian School of Mines, Dhanbad	Dr. Chiranjib Banerjee, Inspire Faculty	Dept. of ESE	144.00	DST(FIST)
11	MHRD(Namami Gange)/2016-2017/ 472/ISM	Prime Minister's Namami Gange – for conducting the survey to stop open defecation free status, complete treatment of solid and liquid waste, total sanitation and having clean/green banks of Ganga	Prof. I. M. Mishra	Dept. of Chemical Engg	5.0	MHRD(Namami Gange)
12	DAE(5)/2016-2017/ 473/ME	Meter Scale Granite Block-Smectite Clay Barriers Experiment and associated TMH modeling for Indian	Dr. A. K. Verma, Assistant Professor	Dept. of Mining Engineering	30.88	DAE
13	CIL(5)/2016-2017 / 474/CHEMICAL ENGG	Studies on the use of Coal and Petcoke as Fuel in the Cement Industry in India	Prof. I. M. Mishra	Dept. of Chemical Engineering	431.28	CIL
14	DST(SERB) /(141)/2016-2017/475/AC	PHOTO – CC: Photocatalytic Construction of C-C and C-X(X=N, O, S, etc) Bonds via Visible Light	Dr. Soumitra Maity, Asstt. Professor	Dept. of Applied Chemistry	33.00	DST(SERB)

		Mediated Cross-Coupling Reactions – Synthesis of N-Heterocycles				
15	ICMR/2016-2017/476/ESE	ALGAL Biomass Harvesting Through Biopolymeric Approach	Dr. Sheeja Jagadevan, Asstt. Professor & Dr. Chiranjib Banerjee, Inspire Faculty,	Dept. of ESE	3.38	ICMR
16	DST(SERB) / (142) /2016-2017/477 /PE	Studies on Characteristics and Dissociation Behavior of Natural Gas Hydrate in Sediments under Subsurface Mimic Conditions	Dr. Ajay Mandal, Associate Professor,	Dept. of PE	44.17	DST (SERB)
17	DST(SERB) /(143)/2016-2017/478/AC	Development of a Point-of-Care Assay System for Qualitative and Quantitative Analysis of Food Allergens using Artificial Antibodies	Dr. Rashmi Madhuri, Asstt. Professor, & Dr. Prashant Kumar Sharma, Asstt. Professor,	Dept. of AC Dept. of APH	45.49	DST (SERB)
18	CIL(6)/2016-2017/479/ME	Multiple Layer Trial Blasing for Better Recovery with less Diluted Coal	Prof. A. K. Mishra	Dept. of Mining Engineering	431.24	CIL

19	DST(SERB) /(144)/ 2016-2017/480/MME	Development of an Intelligent Helmet for Safety and Communication of Underground Miners”	Dr. Tanmoy Maity, Associate Professor,	Dept. of MME	33.03	DST
20	DST(SERB) /(145)/ 2016 - 2017/481/AGL(Travel)	35 th International Geological Congress	Prof. S. Mohanty	Dept. of AGL	1.34	DST
21	DST(SERB) /(146)/ 2016-2017/482/AM	Linear and Cyclic Codes over Finite Local Rings	Dr. Pramod Kumar Kewat, Assistant Professor	Dept. of Applied Math	15.02	DST
22	DST(SERB) /(147)/ 2016-2017/483/Mech. Engg	On the Reductions of aerofoil-turbulence Noise by wavy Edges	Dr. S. Narayanan, Assistant Professor	Dept. of Mechanical Engg.	33.44	DST
23	DST(SERB) /(148)/ 2016-2017/484/Mech. Engg	Optimal Design of thin Walled Beam/Plate Structures for Maximum Elasto-plastic Buckling Load	Dr. Prasun Jana, Assistant Professor	Dept. of Mechanical Engg.	20.08	DST
24	DST(SERB) /(149)/ 2016-2017/485/AM	Study of Surface Wave Propagation in Elastic Solids Involving Piezoelectric Material	Dr. Sanjeev A. Sahu, Assistant Professor	Dept. of Applied Mathematics	15.02	DST
25	DST/INSPIRE/(150)/2016-2017/486/AGP	Lithosphere Structure and Rheological Characteristics of the Eastern Indian Shield: Implications on Craton-mobile Belt Interactions and Crustal Growth/ Recycle Processes	Dr. Srinivasa Rao Gangumalla Assistant Professor,	Dept. of AGP	35.00	DST(INSPIRE)

26	DST(SERB)/(151)/2016-2017/487/APH	Leve-free Cancer Detection Using White Light Quantitative Phase Microscopy (QPM)	Dr. B. Bhaduri, Assistant Professor	Dept. of APH	49.41	DST
27	DST (SERB)/(152)/2016-2017/488/Mechanical Engg.	Impact of Emulsified drop on a Heated Substrate	Dr. Deepak Kumar Mandal , Assistant Professor	Dept. of Mechanical Engg.	29.48	DST
28	DST(SERB)/(153)/2016-2017/489/ME	Radon Exhalation and its Control in Indian Underground Uranium Mines	Dr. Patitapaban Sahu, Assistant Professor	Dept. of ME	46.21	DST
29	DST(SERB)/(154)/2016-2017/490/Mechanical Engg.	Investigation of Heat Transfer Enhancement in some Novel Geometries using Nanofluids for Electronic Cooling Application	Dr. Pawan Kr. Singh, Assistant Professor	Dept. of Mechanical Engg.	33.22	DST
30	DRDO(6)/2016-2017/491/AC	Development of Hybrid Nanocomposite Based Wide Band RADAR Absorbing Materials (1-12 GHz)	Dr. G. C. Nayak, Assistant Professor,	Dept. of Applied Chemistry	32.90	DRDO
31	CPRI/2016-2017/492/ME	Development of a Selection Methodology for Roadheader and Tunnel Boring Machine in Different Geological Conditions for Rapid Tunnelling	Prof. V. M. S. R. Murthy	Dept. of Mining Engineering	117.00	CPRI

32	ISRO(3)/2016-2017/493/AGP	Integrated Remote Sensing and Geophysical Approach for Mineral Mapping over Parts of Dharwar Craton	Dr. Sanjit Kumar Pal, Assistant Professor	Dept. of AGP	30.23	ISRO
33	DRDO(7)/2016-2017/494/MECH. ENGG.	Establishment of Hybrid Mirco Machining Technology using Micro Electro-chemical Machining and Micro Electro-discharge machining processes for Aerospace Materials	Dr. Alok Kumar Das, Assistant Professor	Dept. of Mechanical Engg.	59.28	DRDO
34	UGC-DAE/2016-2017/495/APH	Development of hole transport materials for application of perovskite solar cells	Dr. R. Thangavel, Assistant Professor	Dept. of Applied Physics	0.45	UGC-DAE
35	DST(SERB)/(155)/2016-2017/496/AC	Medicinal Aspects of Supramolecular Chemistry: Anion Recognition	Dr. Swapan Dey, Assistant Professor Dept. of Applied Chemistry	Dept. of Applied Chemistry	36.69	DST(SERB)
36	DST(SERB)/(156)/2016-2017/497/CE	Assessment of Groundwater Quality and Zonation of Kadiri Watershed in the Drought Prone Areas of Anantapur Region	Dr. Srinivas Pasupuleti	Assistant Professor, Dept. of Civil Engineering	28.76	DST(SERB)
37	DST(SERB)/(157)/2016-2017/498/CSE	Design and Implementation of Multiple Strategies to	Dr. Soumen Bag, Assistant	Dept. of CSE	13.00	DST(SERB)

		Identity Handwritten Forgery Activities in Legal Documents	Professor,			
38	DST(SERB)/(158)/2016-2017/499/ECE	Design and Development of Multiband Circularly Polarized Compact Metamaterial Antenna for Mobile/WLAN/WiMAX Applications	Dr. Raghvendra Kr. Chaudhary, Assistant Professor,	Dept. of ECE	51.26	DST(SERB)
39	ISRO/(4)/2016-2017/500/AGL	Estimation of Surface Deformation in Response to Fluid Extraction and Subsurface Coal Fires Using SAR Interferometric Techniques	Dr. Tajdarul H. Syed, Associate Professor	Dept. of AGL	22.70	ISRO
40	DST(SERB)/(159)/2016-2017/501/AM	Study of Non-linear Advection-Dispersion Equation and Their Applications	Dr. M. K. Singh, Associate Professor	Dept. of AM	23.45	DST(SERB)
41	ISRO/(5)/2016-2017/502/ME	Thermal Anomaly Reduction and Monitoring of Coal Fire in the Gondwana Coal Fields and Coal Fire Induced Land Subsidence Using Remote Sensing and Ground Based Techniques	Dr. Dheeraj Kumar, Associate Professor	Dept. of Mining Engineering	19.39 Amount shown upto this figure	ISRO
42	DST(SERB)/(160)/2016-	Investigation on Ultra-thin	Dr. Raghvendra	Dept. of ECE	46.56	DST(SERB)

	2017/503/ECE	Conformal Metamaterial Absorbers for Multiband Applications	Kr. Chaudhary , Assistant Professor,			
43	DST(SERB)/(161)/2016-2017/504/PE	Extraction of Pour Point Depressants from Fruits and Its use for Crude Oil Transportation	Dr. Tarun Kumar Naiya, Assistant Professor	Dept. of PE	33.39	DST(SERB)
44	DST(SERB)/(162)/2016-2017/505/ECE	Optical Sensors Based Traffic Weighbridge	Prof. Vishnu Priye, Dr. Jaisingh T, Asstt. Professor	Dept. of ECE	42.39	DST(SERB)
45	DST(SERB)/(163)/2016-2017/506/AM	Energy Efficient Trajectory Design for Space Missions	Dr. Badam Singh Kushvah, Associate Professor	Dept. of Applied Math	23.85	DST(SERB)
46	DST(SERB)/(164)/2016-2017/507/AGP	Building Crustal Models and the Delineation of Potential Concealed Mineralized Zones in the North Singhbhum Mobile Belt (NSMB) Eastern Indian Craton Through Integrated Geophysical Studies	Dr. Srinivasa Rao Gangumalla, Asstt. Professor	Dept. of Applied Geophysics	40.18	DST(SERB)
47	DST(SERB)/(165)/2016-2017/508/PDF/AC	Financial Support under National Post Doctoral Fellowship to Dr. Punita Mourya	Prof. G. Udayabhanu	Dept. of Applied Chemistry	19.20	DST(SERB)
48	DST(WTI)/(166)/2016-	Development of Ternary	Dr. Sagar Pal,	Dept. of Applied	23.90	DST(WTI)

	2017/509/AC	Nanocomposite Hydrogel Derived from Functionalized Biopolymer Amylose/TiO ₂ -Ag NPs and its Potential Application Towards Treatment of Wastewater	Associate Professor	Chemistry		
49	DST(SERB)/(167)/2016-2017/510/AM	Mathematical Study on Wave Propagation Aspects in Piezoelectric Composite Structure with Complexities	Dr. Abhishek Kr. Singh, Asstt. Professor	Dept. of Applied Mathematics	14.69	DST(SERB)
C. SUMMARY OF R&D PROJECTS EXECUTIED DURING THE FINANCIAL YEAR 2016-2017 (upto MARCH 31, 2017)						
						INR in lakhs
Total value of the projects carried forward from the previous Financial year						7475.76
Total value of the Projects Received during the financial year 2016-2017 (upto March 31, 2017)						2331.24
Total Value of the Projects carried out during the financial year 2016-2017 (upto March 31, 2017)						9807.00

Abbreviations of the Sponsoring Organizations :

DST	:	Department of Science & Technology
UGC	:	University Grants Commission
CSIR	:	Council of Scientific & Industrial Research
MoES	:	Ministry of Earth Sciences
MoEF	:	Ministry of Environment & Forests
MOC	:	Ministry of Coal
CIL	:	Coal India Limited

MWR : Ministry of Water Resource
DAE : Department of Atomic Energy
IPEM : International Project Erasmus Mundus
ICSSR : Indian Council of Social Science Research
MRD : Ministry of Rural Development
ISRO : Indian Space Research Organisation
OIL : Oil India Limited
MOM : Ministry of Mines
DRDO : Defence Research & Development Organization
ICPR : Indian Council of Philosophical Research
ICMR : Indian Council of Medical Research
CPRI : Central Power Research Institute
UGC-DAE : University Grants Commission – Department of Atomic Energy
MoS : Ministry of Steel