

ONGOING R&D PROJECTS EXECUTED DURING FINANCIAL YEAR 2014-15
(UPTO MARCH 31, 2015)

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.	UGC(48)/2009-2010/249/APH	UGC Assistance to the Department of Applied Physics at the level of DRS-1 under Special Assistance Programme (SAP)	Prof J Manam	Applied Physics	68.50	UGC
2.	DST(55)/2010-2011/276/AGL	Structural Geometry, Kinematics of deformation and metamorphism of the proterozoic kaladgi group in the eastern parts of kaladgi basin, Bagalkot District, Karnataka: Implication to Basin Tectonics	Dr. M K Mukherjee Assoc. Prof	Applied Geology	17.44	DST
3.	UGC(59)/2010-2011/277/APH	Electron Impact Scattering Cross Sections for molecules of environment and biological importance – A theoretical study	Dr. B K Antony Assoc. Prof	Applied Physics	4.54	UGC
4.	UGC(60)/2010-2011/278/APH	Synthesis and characterization of ultra thin film using	Prof P S Gupta	Applied Physics	5.02	UGC

		langmuir-boldgett apparatus with application as gas sensor				
5.	UGC(61)/2010-2011/279/EE	Optimal allocation of FACTS devices for the increased load-ability of power systems in deregulated electricity market	Dr. Biplab Bhattacharya Assoc. Prof	Electrical Engineering	3.71	UGC
6.	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
7.	DST(57)/2010-2011/281/AC	Synthesis, characterization of discrete metal organic assemblies of depodal and tripodal ligands and their potential applications in selective molecular recognition and catalysis	Dr. Rohit P. John Assoc. Prof	Applied Chemistry	22.97	DST
8.	UGC(62)/2010-2011/282/APH	Photonic crystal fiber: designing and characterization for applications in optical communication & sensors	Dr. V K Singh Assoc. Prof	Applied Physics	9.54	UGC
9.	UGC(63)/2010-2011/283/APH	Temperature sensor based on upconversion of the embedded emitters	Dr. V K Rai Assoc. Prof	Applied Physics	6.97	UGC
10.	UGC(64)/2010-2011/284/FME	Characterization, beneficiation and coke making of low volatile medium coking coals	Dr(Mrs) Shalini Gautam Asstt. Prof	Fuel & Mineral Engg	9.55	UGC
11.	UGC(65)/2010-	Development of organic –	Dr. Biswajit	Applied Chemistry	5.92	UGC

	2011/285/AC	inorganic hybrid nanocomposite catalysts for vapor phase beckmann rearrangement reaction	Chowhdury Assoc. Prof			
12.	UGC(66)/2010-2011/286/AM	A study on an inventory system model	Prof(Mrs) Bani Mukherjee	Applied Mathematics	6.85	UGC
13.	UGC(67)/2010-2011/287/APH	Density Functional theory of structure and properties of colloidal dispersions in external fields	Dr. Pankaj Mishra Asstt. Prof	Applied Physics	7.52	UGC
14.	UGC(68)/2010-2011/288/ME&MME	Vibration and stability of thin spinning plates	Dr. Vinayak Ranjan Assoc. Prof	Mechanical Engg	5.66	UGC
15.	UGC(69)/2010-2011/289/HSS	Communicative needs analysis of technical students – A study in Jharkhand	Dr. Md. Mozibur Rahman Assoc. Prof	Humanities & Social Sciences	3.73	UGC
16.	MRD(1)/2010-2011/290/ESE	Disinfection by-products formation and their management in water supplies in India	Dr. S K Gupta Assoc. Prof	Environmental Science & Engineering	7.38	MRD
17.	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
18.	UGC(71)/2010-2011/292/AM	A Numerical Investigation of Load carrying mechanism in tilted pad slider bearing lubrications	Dr. P S Rao Asstt. Prof.	Applied Mathematics	6.46	UGC
19.	MOES(3)/2011-	Setting up, operation and	Dr. P K Khan	Applied Geophysics	8.34	MOES

	2012/293/AGP	maintenance of GPS station at Indian School of Mines, Dhanbad	Assoc. Prof			
20.	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
21.	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
22.	UGC(74)/2011-2012/298/AM	Development of Estimation techniques and search of effective methods to minimize the effect of non-response in sample surveys	Prof G N Singh	Applied Mathematics	5.12	UGC
23.	DST(58)/2011-2012/299/APH	Optical Spectroscopic Studies of rare earth doped molybdates phosphors	Dr. S K Sharma Assoc. Prof	Applied Physics	20.94	DST
24.	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
25.	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
26.	UGC(75)/2011-2012/302/ECE	Strengthening of infrastructure in terms of	Prof V Kumar	Electronics Engineering	20.00	UGC

		power supply, water supply safety equipment, laboratory working table and infrastructure required for including the component of Research at PG level				
27.	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
28.	DST(62)/2011-2012/304/AGL	Petrology Geochemistry and age of granite greenstone assemblages along rayachoti tract, Andhra Pradesh: window into late archaean evolution of eastern dharwar craton and geodynamics	Dr. Sukanta Dey Assoc. Prof/AGL	Applied Geology	13.76	DST
29.	DST(63)/2011-2012/305/AGP	Study of continental margin of east antarctica vis-a-vis Eastern Continental Margin in India using satellite gravity data and modeling	Dr. U K Singh Assoc. Prof	Applied Geophysics	3.09	DST
30.	DST(64)/2011-2012/306/ESE	Preparation of Baseline document for fly ash utilization management in coal and mining sector	Prof Gurdeep Singh	Environmental Science & Engg	5.14	DST
31.	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

32.	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
33.	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
34.	DST(65)/2012-2013/310/ME	To strengthen teaching facilities in the area "Geomatics" and "Underground Space Technology"	Prof P P Bahuguna Dr Dheeraj Kumar	Mining Engineering	257.00	DST
35.	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
36.	DST(67)/2012-2013/312/AC	Triplexalen-based metal – organic frameworks (mofs) and investigation on their functional applicability	Dr. Hari Pada Nayek	Applied Chemistry	25.40	DST
37.	UGC(76)/2012-2013/313/EE	On line condition monitoring of mine winder motor	Prof T K Chatterjee	Electrical Engineering	9.05	UGC
38.	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
39.	DST(68)/2012-2013/315/AC	A photochemical approach to surfactant free metal	Dr. Somnath Yadav Asstt. Prof	Applied Chemistry	27.00	DST

		nanoparticles and nanoparticles and nanoclusters and their catalytic applications in organic reactions				
40.	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
41.	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
42.	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
43.	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
44.	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
45.	OIL(1)/2012-2013/321/PE	Studies on interfacial properties, wettability alteration and rheological behaviour of nano particle stabilized micro emulsions	Dr. Ajay Mandal Assoc. Prof	Petroleum Engineering	24.33	OIL

		for its use in enhanced oil recovery				
46.	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
47.	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
48.	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
49.	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
50.	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
51.	CSIRNW(1)/2012-2013/327/ME	Geological and Technological Controls for underground coal	Prof D C Panigrahi Prof A K	Mining Engineering	91.60	CSIRNW

		gasification	Varma/AGL Prof V K Saxena/CE			
52.	ISRO(1)/2012-2013/328/AM	Stability and chaos in phto gravitational N-Body problem with Solar Wind Drag	Dr. B S Kushvah Asstt. Prof	Applied Mathematics	16.97	ISRO
53.	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
54.	UGC(82)/2013-2014/330/MS	Corporate Entrepreneurship in India : an Explanatory Study	Prof G S Pathak	Management Studies	7.76	UGC
55.	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
56.	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
57.	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
58.	UGC(86)/2013-2014/334/PE	Functionalization of nano fly ash for drilling fluid applications	Prof A K Pathak	Petroleum Engineering	13.04	UGC
59.	UGC(87)/2013-2014/335/PE	Development of Nanoparticle induced chemicals and consolidating loose formation	Dr(Mrs.) Keka Ojha Assoc. Prof	Petroleum Engineering	13.23	UGC

		to improve oil production				
60.	UGC(88)/2013-2014/ 336/PE	Selective catalytic oxidation of Karanja Oil : An alternative source of Petrochemical products	Dr. Chandan Guria Assoc. Prof	Petroleum Engineering	14.54	UGC
61.	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
62.	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
63.	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
64.	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
65.	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
66.	UGC(93)/2013-2014/ 342/ECE	Implementation of Spectrum Sensing for Cognitive Radio	Prof Debjani Mitra	Electronics Engineering	9.99	UGC
67.	UGC(94)/2013-2014/ 343/ECE	Real-time Implementation of Speech Coders”	Prof S. Bhattacharya	Electronics Engineering	7.58	UGC
68.	DST(72)/2013-2014/ 344/ECE	To augment the research facilities in the deptt of Electronics Engineering, ISM,	Dr. Sushrut Das Asstt. Prof.	Electronics Engineering	120.00	DST

		Dhanbad				
69.	UGC(95)/2013-2014/ 345/EE	Development of hybrid off-grid power supply system for remote areas	Dr. Nitai Pal Assoc. Prof	Electrical Engineering	7.16	UGC
70.	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
71.	UGC(96)/2013-2014/ 347/EE	Simulation and real-time implementation of smart grid	Dr. Vivekanand Mukhopadhyay Asstt. Prof	Electrical Engineering	5.55	UGC
72.	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
73.	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
74.	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
75.	DST(76)/2013-2014/ 351/AGL	Geodynamics and Structural Evolution of Kachchh Province	Prof S Mohanty	Applied Geology	32.21	DST
76.	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
77.	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

78.	UGC(99)/2013-2014/ 354/Mech	Wear and Friction study of nano composites	Dr. K K Singh Asstt. Prof	Mechanical Engineering	6.85	UGC
79.	ICSSR(2)/2013-2014/355/MS	Evaluating the efficacy of financial inclusion in Jharkhand	Dr. Niladri Das Asstt. Prof	Management Studies	3.00	ICSSR
80.	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
81.	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
82.	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
83.	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
84.	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
85.	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

86.	CSIR(12)/2013-2014/362/AM	Study of torsional wave in anisotropic and non-homogeneous media	Prof S Gupta	Applied Mathematics	10.92	CSIR
87.	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
88.	DST(84)/2013-2014/364/AGP	Magnetotelluric Investigations in the Geothermal Province of Bakreshwar, West Bengal	Prof Shalivahan	Applied Geophysics	19.10	DST
89.	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
90.	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
91.	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
92.	DST(87)/2013-2014/368/Mech	Synthesis and characterization of dental polymeric nanocomposite materials	Dr. Ashis Mallick Assoc. Prof	Mechanical Engineering	54.00	DST
93.	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
94.	DST(88)/2013-2014/370/AC	Synthesis and Functionalization of graphene for controlled dispersion of	Dr. G C Nayak Asstt. Prof.	Applied Chemistry	23.60	DST

		polymer blends”				
95.	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
96.	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
97.	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
98.	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
99.	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
100	DST(92)/2013-2014/376/APH	To Augment the Research Facilities in the Department of Applied Physics, Indian School of Mines, Dhanbad	Prof A K Nirala	Applied Physics	185.00	DST
101	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
102	DST(93)/2013-2014/	Design and fabrication of	Dr. R Thangavel	Applied Physics	23.28	DST

	378/APH	metal oxide-based transparent thin film transistors	Asstt. Prof			
103	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
104	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
105	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
106	DST(96)/2013-2014/ 382/APH	Tuning of Schottky barrier height	Dr. Achamma Bobby	Applied Physics	20.60	DST
107	DST(97)/2013-2014/ 383/APH	Development of Hybrid Polymer-Nanoparticle Based White Light Emitting Diodes (WLEDs) and Solar Cells	Dr. Prashant Kumar Sharma Asstt. Prof	Applied Physics	20.04	DST

B. R&D Projects Received during the Financial year 2014-15 (upto March 31, 2015)

Sl. No.	Project No.	Title of the Project	Coordinator(s)	Department	Total cost of the project (Rs. in lakhs)	Sponsoring agency
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1.	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
2.	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
3.	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
4.	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
5.	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
6.	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
7.	DST(103)/2014-2015/390/APH	Development of multicolour long lasting phosphors based on colour conversion process”	Prof Jairam Manam	Applied Physics	46.19	DST
8.	DST(104)/2014-2015/391/ME	Stability analysis of roof rock and establishing safe hard	Dr. A K Verma Asstt. Prof	Mining Engineering	8.76	DST

		cover for coal exploitation below ground during conversion of opencast mine to underground mine				
9.	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
10.	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
11.	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
12.	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
13.	MoEs(6)/2014-2015/396/ESE	Phosphorus fractionation in surface sediments: An Implication in Restoration and Conservation of Govind Balabah Pant Sagar, Singrauli, MP	Dr. Anshumali Asstt Prof	Environmental Science & Engg	32.46	MoES
14.	UGC(100)/2014-	UGC-BSR Research Start-	Dr. A K Verma	Mining Engineering	6.00	UGC

	2015/397/ME	Up-Grant for newly recruited faculty at Assistant Professors level in Science Department	Asstt. Prof			
15.	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
16.	IPEM(2)/2014-2015/399/INST	International Project AREAS+ under Erasmus Mundus”	Dr. Biswajit Chowdhury Assoc. Prof	Applied Chemistry	2.40	Partnership Agreement
17.	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
18.	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
19.	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 DR. Tanmoy Maity	ECE, APH, AC, MME	400.00	MHRD For Establishing Centre of Excellence in Renewable Energy
20.	DST(110)/2014-2015/403/PE(FIST)	To Augment the Research Facilities in the Department of Petroleum Engineering, Indian School of Mines,	Dr.(Mrs) Keka Ojha Assoc. Prof	Petroleum Engg	160.00	DST(FIST)

		Dhanbad				
21.	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
22.	DST(112)/2014-2015/405/MECH	Active Modal Vibration Control of Composite Structure”	Dr. Prashanta Kumar Mahato Asstt Prof	Mechanical Engg	27.10	DST
23.	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
24.	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
25.	ICPR(1)/2014-2015/408/HSS	Traversing the Territory of Comparative Philosophy	Dr. Gyan Prakash/HSS	ICPR	2.00	ICPR
26.	DST(113)/2014-2015/409/AGL	“Geochemistry and Petrogenesis of different granitoid suites associated with the Tsundupalle Greenstone Belt, Eastern Dharwar Craton (EDC), South India: Implications for crustal evolution during Archaean”	Dr Jinia Nandi, Applied Geology	DST	31.70	DST
27.	CIL(3)/2014-2015/410/AGP	An integrated geo-physical approach for tectonic study in Moher main coal basin of	Dr. U K Singh, AGP	CIL	289.70	CIL

		Singrauli coalfield using 3D inverse modeling of Gravity, Magnetic and AMT data”				
C. SUMMARY OF R&D PROJECTS EXECUTIED DURING THE FINANCIAL YEAR 2014-2015 (upto March 31, 2015)						INR in lakhs
Total value of the projects carried forward from the previous Financial year						2976.35
Total value of the Projects Received during the financial year 2014-2015 (upto March 31, 2015)						1442.80
Total Value of the Projects carried out during the financial year 2014-2015 (upto March 31, 2015)						4419.15

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