

ONGOING R&D PROJECTS EXECUTED DURING FINANCIAL YEAR 2013-14 (UPTO MARCH 31, 2014)

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.	MIT(2)/2006-2007/189/CSE	Information Security Education and Awareness (ISEA)	Prof G P Biswas	Computer Science & Engg	49.32	MIT
2.	UGC(24)/2007-2008/203/FME	UGC Assistance to selected Departments under (SAP) Review of the programee in the Depart of FME for continuation of the programme from DRS-1 to DSR- II	Prof R Venugopal	Fuel & Mineral Engg	50.00	UGC
3.	UGC(27)/2007-2008/206/PE	UGC Assistance to selected Departments under (SAP) Review of the programee in the Depart of PE for continuation of the programme from DRS I to DRS II	Prof S Laik	Petroleum Engg	39.50	UGC
4.	MOES(2)/2009-2010/246/AGP	Monitoring and Study of Local Seismicity of the Eastern Indian Shield Region	Dr. P K Khan Assoc. Prof	Applied Geophysics	11.15	MoES

5.	DST(43)/2009-2010/247/APH	Optical Properties of the rare earth doped heavy metal oxide glasses	Dr. V K Rai Assoc. Prof	Applied Physics	19.88	DST
6.	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
7.	DST(45)/2009-2010/251/ME&MME	Current status, enablers and barriers of implementation of cellular manufacturing system in Indian industries	Dr. A R Dixit Assoc. Prof	Mechanical Engg	7.20	DST
8.	MoC(7)/2009-2010/252/PE	Development and optimization of Coal Bed Recovery Process for CO ₂ Sequestration	Dr(Mrs) Keka Ojha Assoc. Prof	Petroleum Engineering	26.98	MoC
9.	UGC(50)/2009-2010/255/AM	Study of Analytical Approach of Unsteady Ground Water Flow Modeling	Dr. M K Singh Assoc. Prof	Applied Mathematics	6.85	UGC
10.	UGC(51)/2009-2010/256/PE	Studies on Improved recovery of Oil by Surfactant Induced Wettability Alteration and Interfacial Tension (IFT) Reduction	Dr. Ajay Mandal Assoc. Prof	Petroleum Engineering	4.56	UGC
11.	UGC(52)/2009-2010/257/APH	Structural and Luminescence Studies of Rare Earth Doped Y ₂ O ₃ nanophosphors induced by swift heavy ions	Dr. S K Sharma Assoc. Prof	Applied Physics	5.85	UGC
12.	UGC(54)/2009-2010/259/AM	Wave Propagation in anisotropic and inhomogeneous elastic media	Prof P C Pal	Applied Mathematics	6.65	UGC

13.	UGC(55)/2009-2010/260/ME&MME	Construction of 3D Surface from Incompatible Curves	Dr. Kailash Jha Assoc. Prof.	Mechanical Engineering	6.78	UGC
14.	UGC(56)/2009-2010/261/ME&MME	Utilization of waste heat from diesel engine exhaust gases for air-conditioning and performance enhancement of the engine	Prof Randip Kr. Das	Mechanical Engineering	7.56	UGC
15.	DST(47)/2009-2010/262/AC	Molecular recognition and application of fluorescence sensors in host guest chemistry	Dr. Swapan Dey Asstt. Prof.	Applied Chemistry	19.90	DST
16.	UGC(57)/2010-2011/266/PE	To Motivate and Promote the Culture of Research at the Undergraduate Level for Department of Engg and Technology, Deptt of Petroleum Engg, ISM	Prof S Laik	Petroleum Engineering	5.00	UGC
17.	CSIR(10)/2010-2011/267/AM	Fuzzy Automate and Languages : A Topological and Categorical Approach	Dr. S P Tiwari Assoc. Prof	Applied Mathematics	9.51	CSIR
18.	MHRD(62)/2010-2011/268/MS	Centrally Sponsored Plan Scheme of National Mission on Education through Information and Communication Technology	Dr (Mrs.) Saumya Singh Assoc. Prof	Management Studies	6.30	MHRD
19.	MOC(8)/2010-2011/271/ME	Development of Self-Advancing (Mobile) Goaf Edge Supports (SAGES) for depillaring Operations in underground Coal Mines	Prof U K Singh	Mining Engineering	62.10	MOC

20.	DST(51)/2010-2011/272/AC	Polyacrylamide grafted hydro-xypropyl methyl cellulose (HPMC-g-PAM): development and application as an efficient polymeric flocculent and viscosifier	Dr. Sagar Pal Assoc. Prof	Applied Chemistry	17.75	DST
21.	DST(52)/2010-2011/273/AC	Amphoteric xanthan gum (AxG): Synthesis, characterization and application as a novel polymeric flocculent for the treatment of industrial waste water	Dr. Sagar Pal Assoc. Prof	Applied Chemistry	15.45	DST
22.	DST(53)/2010-2011/274/AM	Analysis of effective stability around the equilibrium points in the generalised photogravitational chermnykh – like problem	Dr. B S Kudhvah Asstt. Prof	Applied Mathematics	12.84	DST
23.	DST(54)/2010-2011/275/APH	Electron Induced Collision and Ionization of Technologically relevant atoms/molecules – a theoretical study	Dr. B K Antony Assoc. Prof	Applied Physics	11.94	DST
24.	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

25.	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
26.	UGC(60)/2010-2011/278/APH	Synthesis and characterization of ultra thin film using langmuir-boldgett apparatus with application as gas sensor	Prof P S Gupta	Applied Pysics	5.02	UGC
27.	UGC(61)/2010-2011/279/EE	Optimal allocation of FACTS devices for the increased loadability of power systems in deregulated electricity market	Dr. Biplab Bhattacharya Assoc. Prof	Electrical Engineering	3.71	UGC
28.	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
29.	DST(57)/2010-2011/281/AC	Synthesis, characterization of discrete metal organic assemblies of bidentate and tripodal ligands and their potential applications in selective molecular recognition and catalysis	Dr. Rohit P. John Assoc. Prof	Applied Chemistry	22.97	DST
30	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
31.	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

32.	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
33.	UGC(65)/2010-2011/285/AC	Development of organic – inorganic hybrid nanocomposite catalysts for vapor phase beckmann rearrangement reaction	Dr. Biswajit Chowhdury Assoc. Prof	Applied Chemistry	5.92	UGC
34.	UGC(66)/2010-2011/286/AM	A study on an inventory system model	Prof(Mrs) Bani Mukherjee	Applied Mathematics	6.85	UGC
35.	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
36	UGC(68)/2010-2011/288/ME&MME	Vibration and stability of thin spinning plates	Dr. Vinayak Ranjan Assoc. Prof	Mechanical Engg	5.66	UGC
37.	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
38.	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
39.	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

40.	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
41.	MOES(3)/2011-2012/293/AGP	Setting up, operation and maintenance of GPS station at Indian School of Mines, Dhanbad	Dr. P K Khan Assoc. Prof	Applied Geophysics	8.34	MOES
42.	MOEF(13)/2011-2012/294/ESE	Regional Environmental Impact Assessment Study of Goa Region	Prof Gurdeep Singh	Environmental Science & Engg	202.21	MOEF
43.	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
44.	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
45.	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
46.	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
47.	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

48.	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
49.	UGC(75)/2011-2012/302/ECE	Strengthening of infrastructure in terms of power supply, water supply safety equipment, laboratory working table and infrastructure required for including the component of Research at PG level	Prof V Kumar	Electronics Engineering	20.00	UGC
50.	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
51.	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 cration and geodynamics	Dr. Sukanta Dey Assoc. Prof/AGL	Applied Geology	13.76	DST
52.	DST(63)/2011-2012/305/AGP	Study of continental margin of east antarctica vis-a-vis Eastern Continental Margin in India using staellite gravity data and modeling	Dr. U K Singh Assoc. Prof	Applied Geophysics	3.09	DST

53.	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
54	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
55.	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
56.	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
57.	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
58	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
59.	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

60.	UGC(76)/2012-2013/313/EE	On line condition monitoring of mine winder motor	Prof T K Chatterjee	Electrical Engineering	9.05	UGC
61.	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
62.	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
63.	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
64.	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
65.	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	Environmental Science & Engg	9.25	UGC
66.	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

67.	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
68.	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
69.	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
70.	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
71.	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
72.	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

73.	CSIR(12)/2012-2013/326	Development of fracturing fluid for high pressure high temperature (HPHT) reservoirs with minimum formation damage	Dr(Mrs.) Keka Ojha Assoc. Prof	Petroleum Engineering	14.00	CSIR
74.	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
75.	ISRO(1)/2012-2013/328/AM	Stability and chaos in photo-gravitational N-Body problem with Solar Wind Drag	Dr. B S Kushvah Asstt. Prof	Applied Mathematics	16.97	ISRO
76.	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

B. R&D Projects Received during the Financial year 2013-14

Sl. No.	Project No.	Title of the Project	Coordinator(s)	Department	Total cost of the project (Rs. in lakhs)	Sponsoring agency
1.	UGC(82)/2013-2014/330/MS	Corporate Entrepreneurship in India : an Explanatory Study	Prof G S Pathak	Management Studies	7.76	UGC
2.	UGC(83)/2013-2014/331/MS	System Dynamics based decision support system for Indian micro-finance institutions	Prof Chandan Bhar	Management Studies	6.44	UGC
3.	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

4.	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
5.	UGC(86)/2013-2014/ 334/PE	Functionalization of nano fly ash for drilling fluid applications	Prof A K Pathak	Petroleum Engineering	13.04	UGC
6.	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
7.	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
8.	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
9.	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
10.	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
11.	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

12.	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
13.	UGC(93)/2013-2014/ 342/ECE	Implementation of Spectrum Sensing for Cognitive Radio	Prof Debjani Mitra	Electronics Engineering	9.99	UGC
14.	UGC(94)/2013-2014/ 343/ECE	Real-time Implementation of Speech Coders”	Prof S. Bhattacharya	Electronics Engineering	7.58	UGC
15.	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
16.	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
17.	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
18.	UGC(96)/2013-2014/ 347/EE	Simulation and real-time implementation of smart grid	Dr. Vivekanand Mukhopadhyay Asstt. Prof	Electrical Engineering	5.55	UGC
19.	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
20.	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

21.	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
22.	DST(76)/2013-2014/ 351/AGL	Geodynamics and Structural Evolution of Kachhh Province	Prof S Mohanty	Applied Geology	32.21	DST
23.	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
24.	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
25.	UGC(99)/2013-2014/ 354/Mech	Wear and Friction study of nano composites	Dr. K K Singh Asstt. Prof	Mechanical Engineering	6.85	UGC
26.	ICSSR(2)/2013- 2014/355/MS	Evaluating the efficacy of financial inclusion in Jharkhand	Dr. Niladri Das Asstt. Prof	Management Studies	3.00	ICSSR
27.	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
28.	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
29.	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

30.	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
31.	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
32.	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
33.	CSIR(12)/2013- 2014/362/AM	Study of torsional wave in anisotropic and non-homogeneous media	Prof S Gupta	Applied Mathematics	10.92	CSIR
34.	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
35.	DST(84)/2013-2014/ 364/AGP	Magnetotelluric Investigations in the Geothermal Province of Bakreshwar, West Bengal	Prof Shalivahan	Applied Geophysics	19.10	DST
36.	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
37.	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
38.	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

39.	DST(87)/2013-2014/ 368/Mech	Synthesis and characterization of dental polymeric nanocomposite materials	Dr. Ashis Mallick Assoc. Prof	Mechanical Engineering	54.00	DST
40.	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
41.	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
42.	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
43.	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
44.	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
45.	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
46.	DAE(3)/2013-2014/ 375/AGL	Characterization of argillite rocks of Vindhyan and Cuddapah super-groups in assessing their suitability as	Dr. R K Dubey Assoc. Prof	Applied Geology	28.50	DAE

		host rock for deep geological repository for high level radioactive waste disposal				
47.	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
48.	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
49.	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
50.	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
51.	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
52.	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
53.	DST(96)/2013-2014/ 382/APH	Tuning of Schottky barrier height	Dr. Achamma Bobby	Applied Physics	20.60	DST
54.	DST(97)/2013-2014/ 383/APH	Development of Hybrid Polymer-Nanoparticle Based	Dr. Prashant Kumar Sharma	Applied Physics	20.04	DST

		While Light Emitting Diodes (WLEDs) and Solar Cells	Asstt. Prof			
C. SUMMARY OF R&D PROJECTS EXECUTIED DURING THE FINANCIAL YEAR 2013-2014 (upto March 31, 2014)						
						INR in lakhs
Total value of the projects carried forward from the previous Financial year						1980.73
Total value of the Projects Received during the financial year 2013-2014						1660.90
Total Value of the Projects carried out during the financial year 2013-2014						3641.63

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
PCRA : Petroleum Conservation Reserve Association
IPEM : International Project Erasmus Mundus
ICSSR : Indian Council of Social Science Research
MRD : Ministry of Rural Development
ISRO : Indian Space Research Organisation