

2010-11**Sponsored Research Projects Completed (2010-11)**

Name of the Project	Principal Investigator	Sponsor	Outlay (Lakhs)
Geodynamic evolution of the Main Central Thrust Himalayas	D.K. Mukhopadhyay	DST	14.10
Earthquake Precursor Research Using Satellite Thermal Infrared Data	A.K. Saraf	DST	12.80
Investigation of Distribution and Formation Conditions of the Noble Metal (PGE and Gold) Mineralization in the Sukinda Chromite	A.K.Sen	DST	9.80
Groundwater contamination due to waste disposal and aquifer characterization around Roorkee using integrated Geoelectrical techniques	Mohd. Israil	DST	4.07

Continuing Sponsored Research Project (2010-11)

Name of the Project	Sponsoring Agency	Outlay (Lakhs)	Principal Investigator
Deep Crustal Structure of NE Himalayas (Arunachal Pradesh) Through Integrated Geophysical (MT and Gravity & Magnetic) Data Analysis	DST	8.66	Sri Niwas
National Facility of Geochronology/ Isotope Geology	IITR	20.00	Head, IIC, Roorkee
Early Paleogene Mammal Fauna from Western India: Evolutionary and biogeographic Aspects with Special Reference to 'Out of India' hypothesis-	DST	17.04	Sunil Bajpai
Early Paleogene Vertebrates of India: Evolutionary and Biogeographic Response to India-Asia Collision	DST	34.80	Sunil Bajpai
Mapping of basic parameters of expected strong ground motion estimated of seismic treatment of Technology Mumbai	DST	11.60	Anand Joshi
Establishing National Facility for “AR- ³⁹ AR Geothermochronology at the Indian Institute of Technology, Mumbai	DST	39.03	A.K. Jain
Hydrothermal alteration pattern based exploration model for unconformity type uranium and other associated metals in southern part of Sonrai Basin, Lalitpur District, Uttar Pradesh	BRNS	15.58	A.K.Sen
Long tail effects in Probabilistic Seismic hazard analysis: a case study of Himalaya and Mexico city	DST	11.46	Anand Joshi

Geophysical Investigation for Possible Implications of Solani knee-bend in Himalayan Tectonics	CSIR	8.76	Kamal
Source modeling and generation of strong ground motion: A case study of Sumatra earthquake of December 26,2004	Dept. of Atomic Energy, BARC, Mumbai	30.02	Anand Joshi
Physical Basis for Existence of Direct and Inverse Relationship Between Electrical and Hydraulic Conductivity of Aquifers	CSIR	8.76	Sri Niwas

New projects (2010-11)

Name of the Project	Principal Investigator	Sponsoring Agency	Outlay (Lakh)
Subsurface imaging of Uttarakhand Himalaya using a dense network of strong motion records	Anand Joshi	MoES	64.18
Dissolution Rates of Deccan Basalts and other Lithologies in the Narmada River Basin	G.J. Chakrapani	DST	20.68
Text –Book Series for the Graduate Students in Earth Sciences	Sandeep Singh	MoES	88.17
Remote Sensing Based Debris-Cover Analysis of Chhota – Shigri Glacier, Himalaya	R.P.Gupta	Ministry of Water Resources	10.40
Lode gold Mineralization in the Southern Granulite Terrain, Kerala: Geochemical and Petrological Constraints on their genesis	R. Krishnamurthi	DST	43.06
Investigation of Potential Metalliferous Nature of Coal from India	A.K. Sen	UGC-DAE	0.25

2011-12

New Research Projects (2011-12)

Name of the Project	Principal Investigator	Sponsoring Agency	Outlay (in Lakh of Rupees)
SAR Interferometry in Surface Deformation studies in Tectonically active parts of India	Prof. A.K. Saraf	CSIR New Delhi	17.42
India's paleoclimatic evolution during late Cretaceous early Paleogene: unraveling the defects of ENSO like situation in a greenhouse world	Prof. Sunil Bajpai	DST New Delhi	7.48

New Methods for Strain Estimation from Deformed Markers in Rocks	Prof. D.C. Srivastava	DST, New Delhi	14.72
Geochemical Evolution from Ground Water in a Limestone –Granite Terrain Underground Markers in Rocks	Prof. G.J. Chakrapani	DAE, BARC, Mumbai	24.33

Sponsored Research Projects Completed (2011-12)

Name of the Project	Principal Investigator	Sponsoring Agency	Outlay (in lacs of Rupees)
Deep Crustal Structure of NE Himalayas (Arunachal Pradesh) Through Integrated Geophysical (MT and Gravity & Magnetic) Data Analysis	Sri Niwas	DST	8.66
Early Paleogene Mammal Fauna from Western India: Evolutionary and biogeographic Aspects with Special Reference to 'Out of India' hypothesis	Sunil Bajpai	DST	17.04
Early Paleogene Vertebrates of India: Evolutionary and Biogeographic Response to India-Asia Collision	Sunil Bajpai	DST	34.80
Mapping of Basic Parameters of Expected Strong ground Motion Estimated of Seismic Treatment for Cities in Himalaya	Anand Joshi	DST	11.60
Long tail effects in Probabilistic Seismic hazard analysis: a case study of Himalaya and Mexico city	Anand Joshi	DST	11.46
Hydrothermal alteration pattern based exploration model for unconformity type uranium and other associated metals in southern part of Sonrai Basin, Lalitpur District, Uttar Pradesh	A.K. Sen	BRNS	15.58
Geophysical Investigation for Possible Implications of Solani Knee-Bend in Himalayan Tectonics	Kamal	CSIR	8.76

Continuing Sponsored Research Project (2011-12)

Name of the Project	Sponsor	Outlay (Lakhs)	Principal Investigator
National Facility of Geochronology/ Isotope Geology	IITR	20.00	A.K. Chaudhary
Establishing National Facility for “AR- ³⁹ AR Geothermochronology at the Indian Institute of	DST	39.03	A.K. Jain

Technology, Mumbai			
Source modeling and generation of strong ground motion: A case study of Sumatra earthquake of December 26,2004	BARC, Mumbai	30.02	Anand Joshi
Subsurface imaging of Uttaraanchal Himalaya using a dense network of strong motion records	MoES	64.18	Anand Joshi
Physical Basis for Existence of Direct and Inverse Relationship Between Electrical and Hydraulic Conductivity of Aquifers	CSIR	8.76	Sri Niwas
Dissolution Rates of Deccan Basalts and other Lithologies in the Narmada River Basin	DST	20.68	G.J. Chakrapani
Deep Geoelectrical Studies of India – Eurasia collision zone: Regional MT profile in Uttarakhand Himalaya	DST	13.95	M. Israil
Text –Book Series for the Graduate Students in Earth Sciences	MoES	88.17	Sandeep Singh
Remote Sensing Based Debris –Cover Analysis of Chhota-Shigri Glacier Himalaya	DST	23.43	R.P. Gupta
Lode gold Mineralization in the Southern Granulite Terrain, Kerala: Geochemical and Petrological Constraints on their genesis	DST	43.06	R. Krishnamurthi
Investigation of Potential Metalliferous Nature of Coal from India	UGC-DAE	0.25	A.K.Sen

2012-13

Completed Sponsored Research Projects (2012-13)

Principal Investigator	Title of the Project	Sponsoring Agency	Outlay (Amount in lakhs)
Prof. Sandeep Singh	Establishing National Facility for ⁴⁰ Ar- ³⁹ Ar Geo-thermochronology at the Indian Institute of Technology, Mumbai	DST, New Delhi	39.03
Prof. Sri Niwas	Physical Basis for Existence of Direct and Inverse Relationship Between Electrical and Hydraulic Conductivity of Aquifers	CSIR, New Delhi	8.76
Prof. A.K. Sen	Investigation of Potential Metalliferous Nature of Coal from India	UGC-DAE- CSIR	1.30

Continuing Sponsored Research Projects (2012-13)

Principal Investigator	Title of the Project	Sponsoring Agency	Outlay (Amount in lacs of Rs.)
Dr. Anand Joshi	Source modeling and generation of strong ground motion: A case study of Sumatra earthquake of December 26, 2004	DAE, BARC, Mumbai	30.02
Prof. G.J. Chakrapani	Dissolution Rates of Deccan Basalts and other Lithologies in Narmada River Basin	DST, New Delhi	20.68
Prof. G.J. Chakrapani	Geochemical Evolution from Ground Water in a Limestone – Granite Terrain Underground Markers in Rocks	DAE, BARC, Mumbai	24.33
Prof. M. Israil	Deep Geoelectrical studies of India-Eurasia Collision Zone: Regional MT profile in Uttrakhand Himalaya	DST, New Delhi	13.91
Prof. Sandeep Singh	Text–Book Series for the Graduate Students in Earth Sciences	MoES New Delhi	88.17
Prof. A.K. Saraf	SAR Interferometry in Surface Deformation studies in Tectonically active parts of India	CSIR New Delhi	17.42
Prof. R.P. Gupta	Remote Sensing Based Debris – Cover Analysis of Chhota-Shigri Glacier, Himalaya	DST New Delhi	23.43
Prof. A.K. Sen	Investigation of Potential Metalliferous Nature of Coal From India	UGC_DAE-CSIR	1.30
Prof. Sunil Bajpai	India's paleoclimatic evolution during late Cretaceous early Paleogene: unraveling the defects of ENSO like situation in a greenhouse world	DST New Delhi	7.48
Prof. D.C. Srivastava	New Methods for StrainEstimation from Deformed Markers in Rocks	DST, New Delhi	14.72

New Sponsored Research Projects (2012-13)

Principal Investigator	Title of the Project	Sponsoring Agency	Outlay (Amount in lacs of Rs.)
Prof. D.K. Mukhopadhyay	Structural and petro-mineralogical controls of uranium Mineralization in Hurra-Ki-Dhani-Jahaz area, Sikar, Rajasthan	DAE, BRNS Mumbai	27.99
Dr. Anand Joshi	Crustal Attenuation Studies of the Garhwal and the Kumaon Himalaya for Estimation of Seismic Hazard	Science and Engineering Research Board, (SERB), New Delhi	51.66
Dr. Biplab Bhattacharya	Sediment – Organism Interaction Pattern in Basal Gondwana Sediments of Raniganj Basin, India and its bearing on late Paleozoic Paleogeographic- Paleoclimatic Changes	DST New Delhi	18.85

2013-14

Completed Sponsored Research Projects (2013-14)

Principal Investigators	Title of Projects	Sponsoring Agency	Amount In Lacs
Prof.G.J.Chakrapani& R.K.Bajpai (BARC)	Geochemical evolution of ground water in a limestone-granite terrain underground research laboratory site, Gulbarga District, Karnataka	BRNS	25.00
Prof. Anand Joshi	Subsurface imaging of Uttaranchal Himalaya using a dense network of strong ground motion recorders (PI)	MoEs	64.18
Prof. Arun K. Saraf	SAR interferometry in surface deformation studies in tectonically active parts of India	CSIR	12.37
Prof. R. Krishnamurthi	Lode gold mineralization in southern granulite terrain, Kerala: Geochemical and petrological constraints on their genesis	DST, New Delhi	43.06

Continuing Sponsored Research Projects (2013-14)

Principal Investigators	Title of Projects	Sponsoring Agency	Amount In Lacs
Prof. Arun K. Saraf	SAR Interferometry in Surface Deformation Studies in Tectonically Active Parts of India	CSIR, New Delhi	17.42
Prof. Anand Joshi	Crustal attenuation studies of the Garhwal and Kumaon Himalaya for estimation of seismic hazard	DST	51.66
Dr. Pitambar Pati	Neotectonically controlled coastal subsidence along parts of Odisha coast: A study of future of Indian east coast	IIT Roorkee (Faculty Initiation Grant)	10.00
Dr. Biplab Bhattacharya	Sediment-organism interaction pattern in basal Gondwana sediments of Raniganj Basin, India, and its bearing on Late Paleozoic paleogeographic-paleoclimatic changes	DST, Govt. of India (DST FAST TRACK Project for Young Scientists)	18.85
Prof. Sandeep Singh	Text-Book Series for the Graduate Students in Earth Sciences	MoES New Delhi	88.17
Prof. Sandeep Singh	Geological Expedition to Ladakh and Karakoram	DST, New Delhi	11.00
Prof. D.K. Mukhopadhyay	Structural and petro-mineralogical controls of uranium Mineralization in Hurra-Ki-Dhani-Jahaz area, Sikar, Rajasthan	DAE, BRNS Mumbai	27.99
Prof. D.C. Srivastava	New Methods for strain estimation from deformed markers in rocks	DST, New Delhi	14.72

New Sponsored Research Projects (2013-14)

Principal Investigators	Title of Projects	Sponsoring Agency	Amount In Lacs
Prof. Anand Joshi.	Simulation of great earthquake in the central seismic gap region of Himalaya and its related seismic hazard using modified semi empirical approach	DST	17.10
Dr. Vikram Vishal	Hydro-mechanical behavior of lignites and bituminous coal during multiphase CO ₂ injection	DST	83.00
Prof. S. Mukhopadhyay	Three Dimensional Seismic Structure and Seismicity in the Himalaya Region	DST	12.27

Prof. D.C. Srivastava	Paleostress distribution in Himalaya	JC Bose Fellowship (DST)	68.00
Prof. M. Israil	Deciphering 3D Geoelectrical Structure from MT/MV data recorded in Garhwal Himalayan Region	DST, New Delhi	19.57
Prof. M. Israil	Magnetotelluric studies for delineation of 3-D Geoelectrical structure of Garhwal Himalaya	MoES, New Delhi	24.34

2014-15

Continuing Sponsored Research Projects (2014-15)

Principal Investigators	Title of Projects	Sponsoring Agency	Amount In Lacs
Prof. Anand Joshi.	Simulation of great earthquake in the central seismic gap region of Himalaya and its related seismic hazard using modified semi empirical approach	DST	17.10
Dr. Vikram Vishal	Hydro-mechanical behavior of lignites and bituminous coal during multiphase CO ₂ injection	DST	83.00
Prof. S. Mukhopadhyay	Three Dimensional Seismic Structure and Seismicity in the Himalaya Region	DST	12.27
Prof. D.C. Srivastava	Paleostress distribution in Himalaya	JC Bose Fellowship (DST)	68.00
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Prof. M. Israil	Magnetotelluric studies for delineation of 3-D Geoelectrical structure of Garhwal Himalaya	MoES, New Delhi	24.34
Prof. Anand Joshi	Crustal attenuation studies of the Garhwal and Kumaon Himalaya for estimation of seismic hazard	DST	51.66

New Sponsored Research Projects (2014-15)

Principal Investigator	Name of the Project	Sponsoring Agency	Outlay (Lakh)
Prof. M. Israil	Magnetotelluric Studies for Delineation of 3-D Geoelectrical of Garhwal Himalaya	Ministry of Earth Sciences	24.34
Dr. Lopamudra Saha	Collision of the Singhbhum Craton with the Eastern Ghats Mobile Belt: Testimony of An Early Paleozoic Accretionary Orogen in the Indian Subcontinent	SERC, DST	20.00
Prof. Anand Joshi	Modelling of Finite Ruptures in Three Dimensionally Attenuating Medium for Detail Seismic Hazard Studies of Kumaon Himalaya Using Strong Motion Data	Ministry of Earth Sciences	23.50
Prof. Sandeep Singh	Migmatization, Melting, Leucogranite Generation, and Exhumation of the Higher Himalayan (HHC), Sikkim Himalaya	Ministry of Earth Sciences	23.96
Prof. G.J. Chakrapani	Water and Sediment Characterization of Kallai River, Kerala: Geochemical and Sedimentological Approach	Ministry of Earth Sciences	29.36
Prof. A.K. Sen	Study of Alkaline-Carbonatite Complexes as Potential Resources of REEs, Nb-Ta and U-Th	Ministry of Mines	38.57
Dr. A.S. Maurya	Paleoceanographic Significance of Deep-Sea Benthic Foraminifera At Kerguelen Plateau Southern Ocean ODP Site 1138A During The Late Eocene-Early Oligocene (-40-30Ma)	CSIR	18.92

New Sponsored Research Projects (2015-16)

Principal Investigator	Name of the Project	Sponsoring Agency	Outlay (Lakh)
Prof. D.C. Srivastava	HIGH RESOLUTION STRUCTURAL AND DAMAGE ZONE MAPPING ALONG RISHIKESH-DEOPRAYAG, UTTRAKHAND	DST	17.12
Prof. R. Anbalagan	SLOPE STABILITY STUDIES IN RESERVOIR RIM REGION OF TEHRI DAM	DST	18.80
Prof. M. Israil	DECIPHERING 3D GEOELECTRICAL STRUCTURE FROM MT/MV DATA RECORDED IN GARHWAL HIMALAYAN REGION	DST	19.57