

ESS - Deep Continental Studies Project List 2005-2006

| S.No | Project Title | PI Name & Address | Total Cost | Duration |
|------|--|--|-----------------|---------------------------|
| 1 | Rock properties laboratory-A national facility | Dr. P. Rajendra Prasad (M) Professor, D/o Geophysics, Andhra University, Visakhapatnam-530 003 (Andhra Pradesh) | Rs. 4,06,000 | 07-04-2005 three years |
| 2 | Petrological Characteristics of a suit of granulite amphibolite facies rocks in parts of the chhotanagpur granite gneiss complex: P-T-Fluid trajectory of a Precambrian deep continental class | Dr. Sanjoy Sanyal (M), D/o Geological Sciences, Jadavpur University Kolkata-700032 | Rs.8.40 Lakhs | 36 |
| 3 | Gravity anomalies, crustal structure and lithospheric flexure of the Ninetyeast, Laccadive and 85 E ridges in the northern Indian Ocean | Dr. K. S. Krishna (M), Geological Oceanography Divion, National Institute of Oceanography Dona Paula, Goa-403004 | Rs.12.46 Lakhs | 36 |
| 4 | Quaternary sedimentary records of Baroda window, mainland Gujarat multidisciplinary approach" | Dr. Anupam Sharma,, Birbal Sahni Institute of Palaeobotany, University Road, Lucknow-26 | Rs. 11.62 Lakhs | 36 |
| 5 | Carbon sequestration & sink potential of the soils of Baroda window, Gujarat | Dr. N. S. R. Krishnayya, Dept. of Botany, M.S. university of Baroda, Baroda-390002 | Rs.9.53 Lakhs | 36 |
| 6 | Bacterial community structure and activity in shallow subsurface soils of Baroda window in relation to land use | Dr.G. Archana, D/o Microbiology, Faculty of Science, M. S. University of Baroda | Rs.13.72 Lakhs | 36 |
| 7 | Chemical contamination of the Vadose Zone of the Nandesari/Ranoli Industrial belt of Baroda window, Gujarat | Dr.C.N. Murthy , D/o of applied Chemistry, M.S.University of Baroda, Vadodara-390002 | Rs.18.65 Lakhs | 36 |
| 8 | Bentic fauna of Mahi estuary, Baroda window, habitat characteristics and population ecology | Dr.K.D. Vechrajani,, D/o Zoology, M.S. University of Baroda, Vadodara-390002 | Rs.7.67 Lakhs | 36 |
| 9 | Land cover and land use change analyses of Vadodara Taluka using Remote Sensing and GIS | Dr. Bindu Bhatt, D/o Geography, M.S. University of Baroda, Vadodara-390002 | Rs.12.16 Lakhs | 36 |
| 10 | Environmental Impact of Land Use changea in the Narmada Window of South Gujarat Plains: A study of the Narmada-Kim Interfluve Belt | Prof. Jai Sree De, D/o Geography, M.S. University of Baroda, Vadodara-390002 | Rs.8.02 Lakhs | 36 |
| 11 | Identifying geochemical processes of heavy metal transport and conamination of shallow ground water aquifers in Ankleshwar Industrial area, Narmada window | Prof. N.J. Pawar, D/o Geology, Poona University, Pune | Rs. 12.28 Lakhs | 36 |
| 12 | Modeling of shallow subsurface water around Rajpipla, Narmada window using geoelectrical and remote sensing techniques" | Prof. P. Dev , School of studies in Geology, Vikram University, Ujjain | Rs. 7.54 Lakhs | 36 |

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| 13 | An integrated investigation for neotectonic relationship between Chambal-Mahi belt and Narmda rift system: Implication for shallow subsurface active tectonics in Narmada window | Dr.P.K. Verma, School of studies in Geology, Vikram University, Ujjain | Rs.25.00 Lakhs | 36 |
| 14 | Soil carbon dynamics and dependence on climatic and geomorphic factors using isotopic and mineralogical tracers in Narmada window | Dr.N. Sharma, Departmental of Geology,MS University of Baroda-390002 | Rs7.72 Lakhs | 36 |
| 15 | Characterization of Quaternary sediments from lower reaches of Narmada valley with special reference to climate variability and cultural evolution | Dr.D.A. Sant, Departmental of Geology,MS University of Baroda-390002 | Rs. 7.78 Lakhs | 36 |
| 16 | Microbiology of Lignite mines for environmental and commercial applications, Narmada window | Prof. Shailesh Dave, Department of Microbiology, Gujarat University, Ahmedabad | Rs.7.78 lakhs | 36 |
| 17 | Studies on mafic igneous activity, high-grade metamorphic history and tectonic evolution of Meghalaya, Northeast India | Dr.GVS Poornachandra Rao, Geological Studies Division, National Geophysical Research Institute Hyderabad | Rs. 10.56 Lakhs | 36 |
| 18 | Assessing the role of plumehead for continent-generation in the khasi green stone belt of Meghalaya, North Eastern India | Dr. Jyotiskar Ray, D/o Geology, Calcutta University, 35 Ballygunge Circular Road, Kolkata-700019 | Rs. 9.38 Lakhs | 36 |
| 19 | Geodynamic evolution of Malla Johar Exotic Block and associated Tethyan sequences along the collision boundary between Indian and Asian plates, Uttarakhand Tethys Himalaya, India | Dr. Rajeev Upadhyay, D/o Geology Kumaon University, Nainital-263002 | Rs. 15.38 Lakhs | 36 |
| 20 | Geochemical characterization of the alkaline complexes associated with the Deccan Volcanic Province, in parts of Gujarat and Rajasthan States, India | Dr. N.R. Karmalkar, D/o Geology, University of Pune, Pune-411007 | Rs. 16.2 lakhs | 36 |
| 21 | Structural evolutionary history of the Siang Window based on integrated structural, stratigraphic and metamorphic studies. | Dr. S.K. Acharya, D/o Geological Sciences, Jadavpur University, Kolkata-700032 | Rs. 14.92 lakhs | 36 |
| 22 | Tectono-Metamorphic Evolution of the higher Himalayan rocks of Western (Kemeng Corridor)and eastern Arunachal Pradesh:: A comparative study. | Prof Somnath Dasgupta, Dept. of Geological Sciences, Jadavpur University, Kolkata-700032 | Rs. 21.86 lakhs | 36 |

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| 23 | Geological framework of the Dibang valley of Arunachal Pradesh: An integrated approach to establish the tectonism of the NE Arunachal Himalaya. | Dr. Kakli Prasad Sarma, Dept. of Geological Sciences, Gauhati University, Guwahati-781014 | Rs. 9.24 lakhs | 36 |
| 24 | Granites and sedimentary rocks as crustal probes: Evidence from the geochemical and isotopic studies of Bomdila granites and associated metasedimentary rocks, Arunachal Pradesh, NE Lesser Himalaya. | Dr. Shaik Abdul Rashid, Deptt. of Geology, Alligarh Muslim University, Aligarh-202002 | Rs 9.29 lakhs | 36 |
| 25 | Role of uplift, erosion and exhumation in driving the tectonometamorphic evolution of the metamorphics of the Subansiri corridor, Arunachal Himalaya. | Prof. Mallickarjun Joshi, Dept. of Geology, Banaras Hindu University, Varanasi-211005 | Rs. 11.17 lakhs | 36 |
| 26 | Geochemical and Rb-Sr isotopic signatures in the litho-units of Lohit Complex, Mishmi Hills, Arunachal Pradesh: Implications for its origin and evolution | Dr. Tapos Kumar Goswami., Dept. of Geology, J B College, Jorhat-785001 | Rs. 10.32 lakhs | 36 |
| 27 | Integrated tectonic, Petrological, geochronological and geophysical investigations, Arunachal Himalaya. | Prof. A. K. Jain, Dept. of Earth Sciences, Indian Institute of Technology, Roorkee-247667 | Rs.15.31 lakhs | 36 |
| 28 | Deep crustal structure of NE Himalaya (Arunachal Pradesh) through integrated geophysical (MT, gravity and magnetic) data analysis. | Dr. Sri Niwas., Dept. of Earth Sciences, Indian Institute of Technology, Roorkee-247667 | Rs.8.66 lakhs | 36 |
| 29 | Granite series evolution along Kameng Corridor of Arunachal Himalaya in terms of magnetic susceptibility of ferromagnesian minerals, whole-rock geochemistry and stable isotopes: Implication for petrogenesis, orepotential and tectonic environment. | Prof. Santosh Kumar, Dept. of Geology, Kumaun University, Nainital-263002 | Rs. 10.08 lakhs | 36 |
| 30 | Study of thrust systems in area around Kimin-Ziro-Tamen, Upper Suhansiri district, Arunachal Himalaya, with special reference to the neotectonic movements. | Dr. K. K. Agarwal., Dept. of Geology, Lucknow University, Lucknow-226007 | Rs.9.16 lakhs | 36 |
| 31 | Tectonic evolution of the Siang syntaxis in NE Himalaya with emphasis on spatial and temporal pattern of exhumation | Dr. Anand Kumar Pandey, Natinal Geophysical Research Institute, Uppal Road, Hyderabad-500007 | Rs.12.04 lakhs | 36 |

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| 32 | Exhumation of the Higher Himalayan Crystallines (HHC), Arunachal Himalaya, using Fission track Thermochronology. | Dr. R. C. Patel, Dept. of Earth Sciences, Kurukshetra University, Kurukshetra- 136119 | Rs. 14.44 lakhs | 36 |
| 33 | Geodynamics and geomorphology of metamorphism in Kameng, Subansiri and Siang (Arunachal Pradesh) with special emphasis on Subansiri. | Prof. P. K. Verma, Dept. of Geology, Delhi University, Delhi-110007 | Rs. 7.60 lakhs | 36 |
| 34 | Stratigraphic structural and paleomagnetic analysis of the volcano- sedimentary successions between Noamundi and Nayagarh, Western Iron basin, Singhbhum craton: implicationnnnnnns for the Archaean crustal evolution from the eastern Indian shield. | Dr. Gautam Ghosh, Department of Geology, Presidency College, 86/1 College Street, Kolkata-700073 | Rs. 9.73 lakhs | 36 |
| 35 | Geodynamic evolution of the eastern syntaxis. | Dr. N. S. Gururajan, D/o Igneous Petrology, Wadia Institute of Himalayan Geology,33, Gen. Mahadev Singh Road, Dehradun-248001 | Rs.69.08 lakhs | 36 |
| 36 | Integrated geological and geophysical studies bearing upon the crustal and lithospheric evolution of the Bastar craton: focus on kimberlites, mafic-ultramafic complexes and major structural units | Dr. Y. J. Bhaskar Rao, Natinal Geophysical Research Institute, Uppal Road, Hyderabad-500007 | Rs.80.17 lakhs | 36 |
| 37 | Geochemical and Fluid Inclusion Studies of Malanjkhand Granitoid Complex and Associated mineralization: Metallogenesis and Implications for Crustal Evolution | Dr. M. K. Panigrahi, D/o Geology & Geophysics, Indian Institute of Technology | Rs.9.72 lakhs | 36 |