

# List of Projects

## 5.1 Grant-in-aid Projects

Sl. No.	Project Title	Funding Agency	Principal Investigator	Division	Co-Investigators	Project Period	Total Outlay Rs. in lakh
1.	GPS campaign for crustal movements in and around Palaghat gap "shear zone" southern India	Dept. of Science & Technology, Govt. of India	Sri. K. R. Unnikrishnan	Geosciences	Dr. C. M. Harish Dr. C. P. Rajendran Dr. Kusala Rajendran	2001-2007	8.00
2.	Investigation on the causes behind electric conductivity variations	Dept. of Science & Technology, Govt. of India	Dr. S. Muralidas	Atmospheric sciences	Dr. S. Sampath	2000-2007	9.98
3.	Upgradation and operation of broadband seismological observations in the peninsular shield of India	Dept. of Science & Technology, Govt. of India	Dr. Kusala Rajendran	Geosciences	Dr. C. P. Rajendran, Dr. K. R. Unnikrishnan Smt. Sreekumari Kesavan	2006-2009	13.40
4.	Subsurface Flux of coastal water and management of costal aquifer	Dept. of Science & Technology, Govt. of India	Dr. D. S. Suresh Babu	Marine Sciences	Dr. A. L. Ramanathan Dr. Chudaeva Valentina Anatolyevna Dr. S. Chidambaram	2006-2009	10.12
5.	Tracking the past disasters and tsunami along the parts of Tamil Nadu coast	Dept. of Science & Technology, Govt. of India	Dr. Terry Machado	Marine Sciences	Sri. P. Aravahi	2006-2009	16.33
6.	Metasedimentary rocks of the Kerala khondalite belt, Southern India petrology and geodynamics of their formation	Dept. of Science & Technology, Govt. of India	Dr. G. R. Ravindra Kumar	Geosciences		2006-2009	17.85
7.	Continuous measurement of atmospheric carbon monoxide at Thiruvananthapuram, a tropical site	Indian Space Research Organisation	Dr. G. Mohan Kumar	Atmospheric Sciences	Dr. S. Sampath	2002-2007	11.73
8.	Coastal Ocean Monitoring and Prediction System (COMPAS) along Kerala and Lakshadweep coast	Dept. of Ocean Development GOI	Dr. P. P. Ouseph	Chemical Sciences		2003-2007	163.00
9.	Coastal ocean monitoring and prediction system	Ministry of Earth Sciences , Government of India	Dr. P. P. Ouseph	Chemical Sciences		2008-2013	19.96
10.	Assimilative capacity of urban air and noise environments of Thiruvananthapuram	Science, Technology & Environment, Govt. of Kerala	Shri. V. Muraleedharan	Atmospheric Sciences	Sri. V. N. Neelakantan Sri. V. Shravan Kumar	2001-2006	2.58

Sl. No.	Project Title	Funding Agency	Principal Investigator	Division	Co-Investigators	Project Period	Total Out Rs. in lak
11.	Coastal engineering strategy for shore protection for Kerala	DOD/KSCSTE	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian Dr. T. N. Prakash Dr. T. S. Shahul Hameed	2003-2007	81.47
12.	Preparation of high-resolution bathymetry for the Kerala coast	Dept. of Ocean Development Govt. of India	Dr. N. P. Kurian	Marine Sciences		2006-2007	--
13.	Integrated Coastal and Marine Area Management (ICMAM) west coast (Munambam to Kanyakumari stretch in Kerala)	Dept. of Ocean Development Govt. of India	Dr. N. P. Kurian	Marine Sciences	Dr. K. V. Thomas Dr. K. K. Rsmachandran Dr. T. S. Shahul Hameed	2002-2007	83.00
14.	Development and application of shoreline change model for shoreline management	Department of Science & Technology, Govt. of India	Dr. T. S. Shahul Hamed	Marine Sciences	Dr. N. P. Kurian Dr. K. V. Thomas Dr. M. Samsuddin Shri. R. Mahadevan	2002-2006	29.00
15.	Remote sensing data analysis and GIS application	Indian Space Research Organisation	Dr. M. Baba (Coordinator) Dr. M. Samsuddin (PI)	Geomatics Lab	Dr. K. K. Ramachandran Shri. V. N. Neelakandan Dr. C. M. Harish Shri. S. Sidharthan	2002-2006	57.00
16.	Evaluation for appropriate technology based utilisation of laterite horizons in Neyyar watershed in western ghat region as water harvesting structure	Western Ghat Cell, Planning Board	Dr. Narayanaswamy	Geosciences	Dr. Terry Machado	2007-2010	6.95
17.	Evaluation of agrotypologies in Kerala	Science, Technology & Environment Department	Dr. P. V. S. S. K. Vinayak	Base Camp, Kochi	Dr. V. Sasikumar Dr. S. Sampath	2002-2006	3.36
18.	Characterisation of Indian placers	Central Mining Research Institute, CSIR	Dr. Narayanaswamy	Geosciences	Dr. D. S. Suresh Babu	2003-2007	18.85
19.	Enviornmental impact assessment of inland placer mineral mining	Central Mining Research Institute, CSIR	Dr. R. Ajayakumar Varma	Environmental Sciences	Dr. C.N. Mohanan Sri. K. Raju Sri. G. K. Suchindan	2003-2007	83.41
20.	Integrated coastal zone management plan preparation for the selcted placer mining sites in the country	Central Mining Research Institute, CSIR	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian Dr. T. N. Prakash Dr. T. S. Shahul Hameed Dr. Terry Machado	2003-2007	16.80
21.	Natural radioactivity risk assessment in the living environment of the people of South west coast of India	Department of Atomic Energy	Shri. V. Muraleedharan	Atmospheric Sciences	Shri. K. Vijayakumar Shri. K. J. Mathew	2003-2006	9.30

Sl. No.	Project Title	Funding Agency	Principal Investigator	Division	Co-Investigators	Project Period	Total Outlay Rs. in lakhs	Fu Rece during year F lak
22.	Tectonic evaluation of Panvel flexure using paleoseismologic techniques	Department of Atomic Energy	Dr. Kusala Rajendran	Geo Sciences	Dr. C. P. Rajendran	2003-2006	11.50	
23.	Rainfall validation & characterization and cloud physics studies using megha tropiques data	Department of Space Government of India	Dr. G. Mohan Kumar	Atmospheric Sciences	Dr. S. Sampath Shri. R. Harikumar	2007-2010	22.50	
24.	Landuse/landcover changes and water quality: A case study in the Western Ghat provenance of Central-south Kerala rivers	Western Ghat Cell, Planning Board	Dr. K. Soman	Resource Analysis		2004-2006	4.38	
25.	Generation of Natural Resources and Environmental Database for local Level Planning in Kerala	State Planning Board ISRO	Dr. M. Samsuddin	Geomatics Lab	Dr. K. K. Ramachandran Sri. John Mathai Sri. V. N. Neelakantan Sri. B. K. Jayaprasad	2004-2008	67.70	
26.	Developing spatial and temporal constraints on earthquake I Gujarat using paleoseismological techniques	Department Science Technology, Govt. of India	Dr. C. P. Rajendran	Geosciences	Dr. Kusala Rajendran	2004-2007	13.40	
27.	Resource evaluation and inventory of manufactured sand form Trivandrum district, Kerala	Department Science and Technology, Govt. of India	Dr. D. Suresh Babu	Geosciences	Sri. B. K. Jayaprasad	2005-2007	1.88	
28.	Computation of annual ground water discharge through the western coastal zone of Tamil Nadu	Department Science and Technology, Govt. of India	Ms. Asha Rani	Geosciences		2005-2008	5.04	
29.	Impact of Tsunami on the Kerala coast and an initiative for development of a management plan for the region	Department Science Technology, Govt. of India	Dr. M. Baba		Dr. T. N. Prakash Dr. N. P. Kurian Dr. Srikumar Chattopadhyay Dr. A. S. K. Nair Sri. C. K. Sasidharan	2005-2006	11.50	
30.	Numerical simulation - aquifers	Department Science Technology, Govt. of India	Dr. D. S. Suresh Babu	Geosciences		2005-2006	6.50	
31.	Chemical loading into reservoirs: Investigations from selected watersheds of Periyar basin in Western Ghats, Kerala	Ministry of Environment and Forest, Govt. of India	Dr. M. N. M. Nair	Chemical Sciences	Dr. D. S. Suresh Babu Dr. R. Ajaykumar Varma Dr. C. N. Mohanan	2005-2008	10.30	
32.	Demarcation of vulnerability line (on pilot scale) along the coastal stretches of India based on the recommendation of prof. M. S. Swaminathan committee report	Ministry of Environment and Forest, Govt. of India	Dr. T. S. Shahul Hameed	Marine Sciences		2007-2007		
33.	Preparation of city base maps for 5 Municipal Corporations of Kerala	Kerala State Urban Development Programme	Dr. M. Samsuddin	Geomatics Lab	Dr. K. K. Ramachandran Sri. B. K. Jayaprasad Sri. John Mathai Sri. V. N. Neelakandan Dr. C. M. Harish	2006-2007	54.96	

Sl. No.	Project Title	Funding Agency	Principal Investigator	Division	Co-Investigators	Project Period	Total Outlay Rs. in lakh	Fund F during Rs. i
34.	A model system for management and disposal of Sewage in the Lakshadweep Island, India	Union Territory of Lakshadweep	Dr. M. N. M. Nair	Chemical Sciences		2005-2007	42.65	
35.	Environmental monitoring of water sediment quality parameters in Cochin harbour	Cochin Port Trust	Dr. P. P. Ouseph	Chemical Sciences		2006-2007	3.99	
36.	CSIR senior research fellowship to Shri. J. Rupananda Mallia	Council of Scientific & Industrial Research	Dr. N. Subhash	Atmospheric Sciences		2006-2007	10.95	
37.	Palaeointensity and India & Reunion/Marion plume activity in India Project	Project 32072 (IFPR)	Dr. T. Radhakrishna	Geosciences		2006-2009	22.45	
38.	Assessment of environmental impact of sand mining in the rivers of Pamba & Manimala, southwest coast of India	Kerala State Council for Science, Technology and Environment	Ms. S. Sreeba	Environmental Sciences		2006-2008	0.30	
39.	Environmental management plan for Alappuzha-Sherthali canal and Kanjikuzhy Gramapanchayat-a participatory action research programme	Kerala State Council for Science & Technology	Dr. Srikumar Chattopadhyay	Resources Analysis		2008-2010	7.50	
40.	Pathiramanal Biodiversity	Kerala State Council for Science, Technology and Environment	Dr. Srikumar Chattopadhyay	Resources Analysis		2006-2007	4.67	
41.	Cadastral scale CRZ maps for urban areas in Kerala: phase 1 - Kozhikode, Kollam & Trivandrum corporation and Varkala Municipality	Kerala State Council for Science, Technology and Environment	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian Dr. D. Raju Sri. S. Mohanan Sri. M. Rameshkumar	2006-2007	6.98	
42.	Tectonic and hydrologic control on late Pleistocene Holocene landforms, paleoforest and nonforest vegetation: Southern Kerala	Kerala State Council for Science, Technology and Environment	Dr. K. M. Nair, Vakkom Moulavi Foundation Dr. D. Padmalal	Environmental Sciences		2006-2008	0.20	
43.	Understanding the seismotectonics of the Adaman & Nicobar subduction zone in relation to other subduction zones	Kerala State Council for Science, Technology and Environment	Ms. Anu. R	Geosciences		2006-2008	0.30	
44.	Rejuvenation and utilisation of Alappuzha - Sherthali canal for participatory development and poverty alleviation: A watershed based development approach	Hariyali Programme	Dr. Srikumar Chattopadhyay	Resources Analysis		2007-2007	2.44	
45.	Hariyali project - technical assistance for identification of watersheds in Chadayamangalam block panchayat and preparation of detailed project report	Hariyali Programme	Shri. John Mathai	Geosciences		2007-2010	1.49	

Sl. No.	Project Title	Funding Agency	Principal Investigator	Division	Co-Investigators	Project Period	Total Outlay Rs. in lakh
46.	Watershed project evaluation	Scheduled Caste & Scheduled Tribe Dept.	Dr. V. Nandakumar	Geosciences		2008-2009	
47.	Value - addition of selected placer minerals (Ilmenite & Zircon) with special reference to the "Kayankulam - Thottapally" deposit of Kerala	Council of Scientific & Industrial Research	Dr. D. S. Suresh Babu	Marine Sciences	Dr. T. N. Prakash	2005-2008	4.18
48.	Late quarternery environmental changes in the Coastal Plains of Southern Kerala, Southwest India	Council of Scientific & Industrial Research	Dr. D. Padmalal	Environmental Sciences	Inter institutional project. AGI, Pune, VMFT and CESS, Trivandrum	2005-2007	0.09
49.	SOE REP, Preparation - phase II	KSCSTE	Director			2006-2007	0.00
50.	Tsunami and storm surges inundation modelling and mapping for the coasts of Kerala, Karnataka and Lakshadweep	Ministry of Earth Science, Govt. of India	Dr. N. P. Kurian	Marine Sciences	Dr. T. N. Prakash Dr. K. V. Thomas Sri. B. K. Jayaprasad Dr. T. S. Shahul Hammed	2006-2007	27.80
51.	Coastal zone studies	Space Application Centre, Ahmedabad	Dr. M. Samsuddin	Geomatics Lab	Dr. T. N. Prakash	2006-2007	36.00
52.	Watershed characteristics, landuse pattern and water quality parameters of upstream and selected downstream streches of the Vamanapuram river	Western Ghats Cell, Kerala State Planning Board	Dr. Mahamaya Chattopadhyay	Resources Analysis		2006-2008	2.05
53.	Nitrous Oxide and methane in coastal ocean and estuaries	Ministry of Earth Sciences	Dr. E. J. Zachariah	Atmospheric Sciences	Dr. P. P. Ouseph Dr. C. S. P. Iyer	2007-2010	18.48
54.	Shoreline management for Kerala coast	Ministry of Earth Sciences	Dr. K. V. Thomas	Marine Sciences		2008-2013	176.63
55.	Impact of landscape alterations on watersheds and ecosystem implications - a case study from the western ghats provenance of Idukki distirct, Kerala	Western Ghat Cell Planning Board	Dr. K. Soman	Resources Analysis		2006-2009	7.20
56.	Environmental monitoring and managment plan with regard to dredging operations of the Travancore Cements Ltd, Kottayam	Travancore Cement Limited	Dr. P. P. Ouseph	Chemical Sciences		2008-2009	0.31
57.	Studies on shore protection measure for Lakshadweep Islands	Union Territory of Lakshadweep	Dr. T. N. Prakash	Marine Sciences	Mrs. Sheela Nair Dr. T. S. Shahul Hammed Dr. K. V. Thomas	2007-2009	25.48
58.	NREDB Atlas and Digital database for Kerala State	Indian Space Research Organisation	Dr. M. Samsuddin	Geomatics Lab	????????	2008-2009	2.10

## 5.2 Consultancy Projects

Sl. No.	Project Title	Funding Agency	Principal Investigator	Division	Co-Investigators	Project Period	Total Outl Rs. in lak
1.	CRZ status report for Fishing Harbours at Cheruvathur, Chettuwa, Chellanam & Arthungal.	Harbour Engineering Department	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2008	1.94
2.	CRZ status report on Demarcation of HTL/LTL for proposed special Eco Zone.	Pan India Paryatan Ltd.	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2007	27.00
3.	CRZ status report for resort development at Maradu, Kochi .	M/s K.G.A.E. Estate Management Pvt. Ltd.	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2007	1.35
4.	CRZ status report and demarcation of HTL/LTL	M/s Mundra Port special economic zone Ltd.	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2007	25.50
5.	Demarcation of HTL & CRZ status report for sites at Srivardhan Ratnagiri & Rajpur	M/s Aditya Environmental Services Ltd	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2007	4.65
6.	Demarcation of HTL and LTL and CRZ Status report	M/s Bhaasuram Resorts Pvt. Ltd. Poovar	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2007	0.93
7.	Demarcation of HTL/LTL and CRZ status report for the Tata Power Company Ltd.	Thermal Power Plant in Maharashtra	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2007	6.60
8.	Preparation of CRZ status report of Arattupuzha sea coast and the banks of Kayamkulam Backwater	IRE Ltd. Chavara, Kollam	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2007	1.95
9.	Demarcation of HTL/LTL for pipeline laying at Rewas and Pirwadi, Maharashtra	M/s IPCL Maharashtra	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2007	5.85
10.	Demarcation of HTL/LTL and CRZ report	Somatheeram Research Institute and Ayurveda Hospital (P) Ltd., Trivandrum	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2007-2008	0.60
11.	Demarcation of HTL/LTL and CRZ report for Gelatine Plant at Cuddalore	M/s Pioneer Jellice India Pvt. Ltd. Tamil Nadu	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2007	3.15
12.	Demarcation of HTL/LTL and CRZ report for a steel plant at Paradeep	M/s Essar Steel Ltd. Mumbai	Dr. K. V. Thomas	Marine Sciences	Dr. N. P. Kurian	2007	7.20

Sl. No.	Project Title	Funding Agency	Principal Investigator	Division	Co-Investigators	Project Period	Total Outlay Rs. in lakh
13.	Demarcation of HTL/LTL and CRZ report for Jetty development sites at Nerul and Ferry Wharf	MSRDC, Govt. of Maharashtra	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2007-2008	4.65
14.	Preparation of CRZ report for resort development in Paravoor, Kollam	Dr. Joe Johnson	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2007	0.96
15.	Demarcation of HTL/LTL/CRZ for pipeline crossing along Kakinada Guntur	Reliance Gas transportation infrastructure Ltd. Navi Mumbai	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2008	9.00
16.	Demarcation of HTL/LTL and CRZ status report for international convention centre at Trivandrum	Chalet hotels Ltd.	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2007-2008	1.05
17.	Demarcation of HTL/LTL and CRZ status report	Berggruen Hotels pvt. ltd.	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2007-2008	0.90
18.	Demarcation of HTL/LTL and CRZ status report	M/s Poovar Lagoon, Pozhiyoor	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2007	0.97
19.	Demarcation of HTL/LTL	M/s Reliance Industrial infrastructure Ltd. JNPT, Mumbai	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2007-2008	3.00
20.	Demarcation of HTL/LTL	M/s Ganes Benzo Plast Ltd. at Mumbai	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2007-2008	2.85
21.	Demarcation of HTL/LTL	M/s Games Benzo Plast Ltd. at JNPT Mumbai	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2008	1.80
22.	Preparation of CRZ status report for the Nuclear Power Project at Kundankulam	Nuclear Power Corporation of India Ltd. Tamil Nadu	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2008	3.15
23.	Preparation of CRZ status report	Kuttippuram Kannur NH upgradation scheme of National Highways Authority of India, New Delhi	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2008	7.50
24.	Preparation of CRZ status report for resort development at Muzhupilangad Kannur	M/s Tourist resorts (Kerala) Ltd.	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2008	1.35
25.	Preparation of CRZ status report for report for project at Nagarcoil,	M/s Escapade Resorts Pvt. Ltd, Kochi	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2008	1.50

Sl. No.	Project Title	Funding Agency	Principal Investigator	Division	Co-Investigators	Project Period	Total Outlay Rs. in lakhs
26.	Preparation of CRZ status report for resort development at Vayalar, Alappuzha,	M/s Vasu Coco & Resorts, New Delhi	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2008	1.34
27.	Preparation of CRZ status report of Panmana Ayinivalikulangara village of Kollam (Dist.) I	Indian Rare Earths Ltd., Chavara Kollam	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2008	3.90
28.	Preparation of CRZ status report	Boat building and repair workshop at Chavara	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2008	0.67
29.	HTL/LTL delineation for townshipat Chaferi, Retnagiri in Maharashtra	M/s. JSW Energy (Retnagiri) Limited	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2008	6.75
30	CRZ status report for Prestige Forum Mall at Maradu, Cochin	M/s. Thomson Realtors Pvt. Ltd., Cochin	Dr. K. V. Thomas	Marine Sciences	N. P. Kurian	2008	1.65

## 5.2 Plan Projects

Project Code	Project Title	Principal Investigator	Division	Co-Investigators	Project Period	Total Outlay Rs. in lakh	du
PLAN 205	Landuse-landcover change, its impact on biophysical system and environmental consequences: case studies in two sensitive zones of Northern Kerala ( Kakkiar - Agastymalai hill tract)	Dr. Srikumar Chattopadhyay	Resource Analysis		2004-2006	4.80	
PLAN 206	Heavy metal and REE abundances in edible plants of heavy mineral areas of Kollam and Alappuzha districts, Kerala	Shri. G. Balasubramonian	Training & Extension	Shri. V. Vasudevan	2003-2006	12.64	
PLAN 211	Creation of digital data bank at CESS	Shri V. N. Neelakantan	Geomatics Lab	Dr. C. M. Harish Dr. M. Samsuddin Dr. K. K. Ramachandran Shri. S. Sidharthan	2003-2006	12.10	
PLAN 219	Studies on agro-ecological regions of Palakkad District, Kerala	Dr. E. Saravanan	Training & Extension	Shri V. Shrivankumar	2004-2006	8.70	
PLAN 231	Cadastral level decision support system for management of natural resources in Thiruvananthapuram district	Sri. B. K. Jayaprasad	Geomatics Lab	Sri. John Mathai Sri. V. N. Neelakantan Dr. K. K. Ramachandran Dr. C. M. Harish	2005-2009	59.64	
PLAN 232	State of the environment and action plan for kochi urban area	Dr. Ajayakumar Varma	Environmental Sciences	Dr. Ajayakumar Varma Dr. C. N. Mohanan Dr. M. N. M. Nair	2005-2009	52.12	

Project Code	Project Title	Principal Investigator	Division	Co-Investigators	Project Period	Total Outlay Rs. in lakh
PLAN 233	Development of integrated coastal zone management plans	Dr. K. V. Thomas	Marine Sciences	Dr. K. V. Thomas Dr. Srikumar Chattopadhyay	2005-2009	21.95
PLAN 234	Measurement of Cloud parameters and cloud modelling	Dr. V. Sasikumar	Atmospheric Sciences	Dr. V. Sasikumar Dr. S. Murali Das	2005-2010	187.37
PLAN 239	Preparation of district level natural hazard zonation maps for Kerala	Shri. John Mathai	Geosciences	Shri. John Mathai Dr. Srikumar Chatopadhyay	2005-2009	19.65
PLAN 240	Study of coastal processes and hazard along Kerala coast with particular reference to disaster preparedness	Dr. N. P. Kurian	Marine Sciences	Dr. N. P. Kurian Dr. K. V. Thomas	2005-2009	13.04
PLAN 250	Exploring interrelationship between environmental degradation and poverty: selected micro level case studies across Kerala	Dr. Srikumar Chattopadhyay	Resource Analysis	Sri. C. K. Sasisharan Smt. C. Sakunthala	2007-2010	24.28
PLAN 251	Geomorphic setting, landscape alterations and fluvial regime change in the western ghats provenance of southern sahyadry south of Achankovil Ar	Dr. Mahamaya Chattopadhyay	Resource Analysis	Smt. C. Sakuntala	2007-2010	25.06
PLAN 252	Mapping of coastal cliffs and their vulnerability between Kanyakumari and Mangalore, south west coast of India	Dr. A. S. K. Nair	Marine Sciences	Shri. G Sankar Shri. John Paul	2007-2010	25.06
PLAN 253	Impacts of Urbanization on soil and water Resources of some selected cities Kerala	Dr. K. Narendra Babu	Chemical Sciences	Dr. D. Padmalal Dr. K. Maya Dr. K. Raju	2007-2009	6.60
PLAN 254	Quaternary geology and geomorphic evolution of the coastal lands of Kollam district, SW india	Dr. D. Padmalal	Environmental Sciences	Dr. K. Narendrababu Sri. B. Sukumar Dr. K. Maya	2007-2010	19.00
PLAN 255	Tropical freshwater myristica swamps of Kerala and its ecological and evolutionary significance	Dr. C. N. Mohanan	Environmental Sciences	Dr. D. S. Suresh Babu	2007-2009	15.00
PLAN 256	Hydrochemical characterization and drinking water potential of the coastal springs of southern Kerala	Dr. K. Narendra Babu	Chemical Sciences	Dr. D. Padmalal	2007-2009	10.00
PLAN 258	Data bank on estuarine and river systems of Kerala	Dr. M. N. M. Nair	Chemical Sciences		2007-2009	10.55

Project Code	Project Title	Principal Investigator	Division	Co-Investigators	Project Period	Total Outlay Rs. in lakh
PLAN 259	Application of Neutral Network in pattern classification of remotely sensed images	Sri. K. J. Mathew	Atmospheric Sciences		2008-2010	7.58
PLAN 260	Sunlight - induced Multi-spectral fluorescence Imaging System for vegetation assessment	Dr. N. Subhash	Atmospheric Sciences	Dr. C. N. Mohanan	2007-2010	26.5
PLAN 261	Human - Induced land modifications and its impacts: A study in Thodupuzha taluk - Idukki district Kerala	Dr. K. Raju	Training & Extension	Shri. G Sankar Dr. V. Nandakumar	2007-2010	5.98
PLAN 262	Environmental degradation of Muvattupuzha river basin - causes, consequences and strategies for river restoration	Dr. K. Maya	Environmental Sciences	Dr. D. Padmalal Dr. K. Narendra Babu	2007-2009	11.22
PLAN 263	Solar ultraviolet - B and atmospheric trace constituents in relation to climate change	Dr. G. Mohan Kumar	Atmospheric Sciences	Dr. S. Sampath	2007-2013	20.25
PLAN 264	Mini atlas of Kerala	Dr. Srikumar Chattopadhyay	Resource Analysis		2007-2008	1.70
PLAN 265	Characterization of laterites of Kerala and preparation of laterite distribution map	Dr. Narayanaswamy	Geosciences		2007-2010	15.09
PLAN 266	Quaternary evolution of the coastal plains of southern Kerala	Shri. John Paul	Marine Sciences	Dr. A. S. K. Nair Dr. D. S. Suresh Babu	2007-2010	36.50

### 5.3 R & D Infrastructural Projects

Project Code	Project Title	Co-ordinator	Division	Allotment for the year (Rs. lakh)	Expenditure of the Year (Rs. lakh)
PLAN 101	XRF facility	Director		27.60	7.99
PLAN 102	Upgradation of Geosciences laboratories	Dr. T. Radhakrishna	Geosciences	6.55	1.62
PLAN 103	Strengthening of Ecological laboratory	Head, ESD	Environmental Sciences	2.05	0.86
PLAN 104	Upgradation of Electronic and Instrumentation laboratory	Head, ASD	Atmospheric Sciences	11.75	4.03
PLAN 105	Upgradation of Chemical laboratory	Head, CSD	Chemical Sciences	19.95	8.12
PLAN 106	Upgradation of Library facilities	Head, TED/ Librarian	Library	23.60	34.92
PLAN 107	Publication of monographs/memoirs/annual reports/newsletters	Director		5.70	1.20

Project Code	Project Title	Co-ordinator	Division	Allotment for the year (Rs. lakh)	du
PLAN 108	Upgradation of training/extension/exhibition/LAN and other technical facilities	Head, TED	Training & Extension	6.55	
PLAN 110	Seminar/workshops/meetings	Director		3.25	
PLAN 111	Marine Laboratory infrastructure development	Head, MSD	Marine Sciences	44.40	
PLAN 112	Geomatics Laboratory infrastructure development	SIC, GML	Geomatics Lab	24.09	
PLAN 114	PLacer Mineral Testing Laboratory	Head, MSD	Marine Sciences	36.40	

#### 5.4 R & D building Infrastructural Projects

Project Code	Project Title	Co-ordinator	Division	Allotment for the year (Rs. lakh)	Ex th
PLAN 109	Construction of Sophisticated Analytical Facility Building	Registrar		21.00	32.
PLAN 109 (1)	Construction of compound wall and road	Registrar		15.00	----
PLAN 119	Recreation facilities at CESS	Secretary, Recreation Club		1.00	NI
PLAN 120	Upgradation of centralised Air Conditioning and facilities of CESS buildings	Dy. Registrar, Stores		2.80	NI
PLAN 122	Construction of parking shelter	Registrar		10.00	NI
PLAN 123	Upgradation/ repair and maintenance of toilets	Dy. Registrar, Stores		0.50	NI
PLAN 124	Upgradation of EPABX system	Registrar		2.50	NI

<b>Project Code</b>	<b>Project Title</b>	<b>Co-ordinator</b>	<b>Division</b>	<b>Allotment for the year (Rs. lakh)</b>	<b>Exp the</b>
PLAN 126	Garden development and landscaping	Registrar		2.00	NIL
PLAN 128	Upgradation of electrical installations and facilities and upgradation/purchase of a new DG set	Registrar		1.00	0.91
PLAN 150	Construction of water tank and modification to the existing water supply scheme	Registrar		15.00	15.00
PLAN 151	Replacement of damaged cast iron stair case in the administrative building	Registrar		1.50	NIL
PLAN 152	Upgradation of computer facility in administration block	Registrar		5.00	NIL
PLAN 153	Upgradation of security area and rooms	Registrar		1.00	NIL
PLAN 154	Upgradation of path way to canteen	Registrar			NIL
PLAN 155	Upgradation of the canteen	Dy. Registrar, Stores			NIL
PLAN 156	Construction of compound wall in the land at Ernakulam	Registrar			30.82
PLAN 157	Construction of additional floor in the Scientists blocks	Dy. Registrar, Stores			NIL