

## LIST OF PROJECTS SANCTIONED DURING 2007-2008

## Environment Research Programme (ERP)

Sl. No.	Title of the Project	Name of Principal Investigator (PI) & Institute
1.	Studies on the Reproductive Health of different population groups in and around Jagiraod Paper Mill and Bongaigaon Refinery & Petrochemical Ltd in Assam	Dr. Jogen Chandra Kalita, Guwahati University, Guwahati -781014, Assam
2.	Detoxification of (hydro) chlorofluorocarbons and halons with methane catalytically to reusable hydrofluracarbons	Dr. S B Halligudi, Sr. Scientist, Catalysis Division, National Chemical Laboratory, Dr. Homi Babha Road, Pune-411008. Maharashtra
3.	Bioremediation of polycyclic aromatic hydrocarbons (pyrene)	Dr. Sunita Suneja, Department of Microbiology, CSS Haryan Agricultural University, Hisar-125004 Haryana
4.	Pesticides degradation using cultural and biological tools to minimize ground water pollution	Dr. Anjana Srivastava, Assistant Professor, Department of Chemistry, College of Basic Science & Humanities, G B Pant University of Agriculture & Technology, Pant Nagar-263145, Uttarakhand.
5.	GIS based modeling of coastal aquifer in Pondicherry region towards solving sea water intrusion	Dr. G Ravikumar, Centre for Water Resources, College of Engineering, Anna University, Guindy, Sardar Patel Road, Chennai-600025. Tamil Nadu
6.	Development of Luminescence-based Biosensors for Detection of Mercury Ions in Water Bodies	Dr. Arif Ali, Jamia Millia Islamia, Biotechnology Programme, Department of Biosciences Faculty of Natural Sciences, New Delhi-110025 Delhi
7.	Bio-inspired catalytic systems: A Viable option for development of cleaner chemical process	Dr. Subratanath Koner, Department of Chemistry, Inorganic Chemistry Section, Jadavpur University, Kolkata-700032 West Bengal
8.	Development of a reporter strain to monitor toxic and or Carcinogenic polycyclic aromatic hydrocarbons (PAHs) in the environment	Dr. Tapan K. Dutta, Department of Microbiology, Bose Institute, P-1/12, CIT Schme VIIM, Kolkatta-700054 West Bengal
9.	Fully Biodegradable Starch based Film for making carry bag and Edible Food Packaging	Dr. Madhusweta Das, Department of Agricultural & Food Engineering, Indian Institute of Technology, Kharagpur-721302 West Bengal
10.	Removal of multimetal pollution from industrial waste streams and natural aquifer system by macrocycle functionalized dendrimers in the presence of organophilic coligands	Dr. V. Alexander, Department of Chemistry, Loyola College, Chennai-600034 Tamil Nadu

11. Phytoremediation of hydrocarbon contaminated soil of Assam  
Dr. S Deka, Institute of advanced study in science & technology, Guwahati-781035, Assam.
12. Two dimensional sheets and interlayers of Hydrotalcite-like materials-potential scope for environmental remediation  
Dr. Kannan Srinivasan, Central Salt & Marine Chemicals Research Institute, Bhavnagar-364002, Gujarat
13. Monitoring and removal of toxic compounds from Indian paper mill waste waters  
Dr. Satish Kumar, Department of Paper Technology, Indian Institute of Technology, Roorkee, Saharanpur Campus, Saharanpur - 247667U.P.
14. Noble Metal Capped Semiconductor nano particles in the photocatalytic treatment of textile waste water  
Dr. T. Sivakumar, Department of Chemical Engineering, Anna University, Chennai-600025, Tamil Nadu
15. Disinfection of river/pond/ground waters by Novel disinfecting polymers  
Dr. K.M. Popat, Central Salt and Marine Chemicals Research Institute, Bhavnagar-364002 Gujarat
16. Pilot scale optimization of bacterial degradation of lignin and pentachlorophenol for pulp paper effluent decolourization and its application for aquaculture and ferti-irrigation  
Dr. Ram Chandra, Analytical Chemistry Section, Industrial Toxicology Research Centre, Post Box-80, Lucknow-226001U.P.
17. Degradation of dyes and refractory organic contaminate from textile and other Organic Industrial Effluents  
Dr. B. Ramesh Babu, Central Electrochemical Research Institute, Karaikudi-630006, Tamil Nadu
18. Recycling of Electronic Waste  
Dr. Avimanyu Das, NML, Jamshedpur-831007, Jharkhand
19. Development of solar photo catalysts for the mineralization of pollutants in industrial effluent  
Dr. M. Swaminathan, Professor of Chemistry, Department of Chemistry, Annamalai University, Annamalai Nagar -608002 Tamil Nadu
20. Development of Novel chelating polymers for effective sorption of chromium ions from tannery waste  
Dr. T Kaliyappan, Assistant Professor, Department of Chemistry, Pondicherry Engineering College, Pondicherry-605014.
21. Monitoring of water quality of the rivers in District Nainital & Udham Singh Nagar Uttarakhand"  
Dr. N G Shrivastva, Senior Manger (PCRI), Ranipur, Haridwar-249403 Uttarakhand
22. A process development for ameliorating alarming environmental and health hazards posed by pthalates in plastics via chemical, biochemical and bioremediation approaches.  
Dr. S. Benjamin, Department of Botany, University of Calicut, Thenhipalam-673635 Kerala
23. The impact of coal mining on water quality and microbial communities in Jaintia Hills District, Meghalaya  
Dr. H. Kayang Department of Botany, North Eastern Hill University, Shillong-793022 Meghalaya
24. Effect of heavy metal pollutants on the induction of biomarker protein, metallothionein in the selective edible organisms of the coastal areas of Tamil Nadu  
Dr. S. Vincent, Department of Zoology, Loyola College, Chennai-600034 Tamil Nadu

25. Developing Eco Friendly Microbial Consortia for Pathogen Removal in Sewage Waste Water and Mitigation of Pathogen Entry into Hydrological Cycle  
Dr. P Dhevagi, Department of Environmental Sciences, Tamil Nadu Agricultural University, Coimbatore-641003, Kerala
26. Development of Bipolar Membrane Technology for water purification and salt recovery as their corresponding acid and base from industrial effluent  
Dr. Vinod K. Shahi, Central Salt & Marine Chemicals Research Institute, Bhavnagar-364002, Gujarat
27. Development of a Road dust collecting system  
Dr. L.K. Bandopadhyay and Dr. S.K. Chaulya, Central Mining Research Institute, Council of Scientific and Industrial Research, Barwa Road, Dhanbad-826001, Jharkhand
28. "Assessment of environmental quality with respect of chemical and radiological contamination in the vicinity of thermal power plants in Delhi",  
Dr. P.S. Khillare, School of Environmental Sciences, JNU, New Delhi-110067

### Ecosystem Research Scheme (ERS)

Sl. No.	Title of the Project	Name of Principal Investigator (PI) & Institute
1.	Plant functional Trait Analysis of Dry Tropical Forest Ecosystems"	Dr. A.S. Raghubanshi. Reader Centre for Advanced Study in Botany, Banaras Hindu University, Varanasi-221005
2.	Inventorization of fish and aquatic mega fauna of Dibru-Saikhowa National Park, Assam	Dr. S.P. Biswas Professor & Head Deptt. of Life Sciences, Dibrugarh University Dibrugarh-786004, Assam
3.	Ornamental fish Resources of the Barak and Chindwin Headwaters in North East India, their Biology and Conservation	Dr. W. Vishwanath Singh Deptt. of Life Sciences Canchipur Imphal-795003. Dr. Nilakshee Devi Lecturer Deptt. of
4.	Floristic studies on Macrophytic diversity of Nameri National Park (Assam) and Pakke Tiger research (Arunachal Pradesh)"	Botany Gauhati University Gauhati-781014.
5.	Socio-Cultural and political aspects of market and non-market benefits of forest resources with special reference to NTFPs and conservation in and around Dampa Tiger Reserve in Mizoram	Dr. U.K. Sahoo Department of Forestry, Mizoram University, P.O. 190, Aizawl, Mizoram, India

### Eastern and Western Ghats Research Programme (E&WGRP)

Sl. No.	Title of the Project	Name of Principal Investigator (PI) & Institute
1.	Assessing the economic loss due to feeding habits of the frugivorous bats in the orchard regions of Ahmednagar District	Dr. D.S. Joshi Ahmednagar College Ahmednagar Maharashtra
2.	Biodiversity of Terrestrial and Lignicolous Macrofungi in the Kerala part of the Western Ghats	Dr. C. Mohanan KFRI, Peechi-680653 Thrissur, Kerala
3.	Utilization of alternative timber species for catamarans to conserve traditional tree species of Eastern Ghats	Dr. Pankaj K. Aggarwal, Institute of Wood Science & Technology (IWST), P.O. Malleswaram, Bangalore

4.	Development of Bioinoculants for some tree legumes useful in revegetation of mine area	Dr. Nibha Gupta, Regional Plant Resources Centre, Bhubaneswar
5.	Ecology of Plant Galls in the Shola Forests of Eastern and Western Ghats of Tamil Nadu	Dr. S. Amerjothy, Deptt. of Plant Biology and Plant Biotechnology, Presidency College, Chennai-600005
6.	Towards the conservation of caecilian amphibians of the Northern Western Ghats – establishing the systematic Foundation	Dr. V.B. Giri, BNHS, Mumbai

### Policy Research Projects

Sl. No.	Title of the Project	Name of Principal Investigator (PI) & Institute
1.	Formulation of a Sui-Generis Regime for traditional knowledge (Ethnobiology)	Prof. P. Pushpangadan, Director General, Amity Institute for Herbal and Biotech Products Development, Thiruvananthapuram, Kerala-695005,
2.	Policy for Managing Societal Risks in India	Prof. A. Damodaran, Indian Institute of Management (IIM), Bangalore-560076Karnataka
3.	Corporate Environment responsibility and the Market: Study of Indian manufacturing firms	Prof. P.D. Jose, Indian Institute of Management (IIM), Bangalore-560076Karnataka

### Biosphere Reserves

Sl. No.	Title of the Project	Name of Principal Investigator (PI) & Institute
1.	Ecological Studies of Forest with a view to identify species useful in restoration of degraded forests habitat of Achanakmar Amarkantak Biosphere Reserve	Indira Gandhi Agricultural University, Raipur-492 006
2.	Collection, conservation, evaluation and identification of high yielding genotypes of kalazira (bunium persicum) for the sustainable development of tribal communities in cold deserts Biosphere Reserve	Department of Plant Breeding & Genetics, CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur
3.	Integrating marine ornamental fish conservation and sustainable development, captive breeding, technology popularization and sea ranching in Gulf of Mannar Biosphere Reserve	Centre of Advanced Study in Marine Biology, Annamalai University
4.	Management of Manas Biosphere Reserve through biodiversity evaluation in gap areas and community participation	Botany Department, Gauhati University, Gauhati
5.	Studies on Diversity and distribution of pteridophytic flora of Pachmarhi Biosphere Reserve	Pteridology Laboratory, National Botanical Research Institute, Lucknow.

## Wetland

Sl. No.	Title of the Project	Name of Principal Investigator (PI) & Institute
1.	Effects of pollutants on Biodiversity and reproductive dynamics of ecologically sensitive organisms in the estuarine coastal waters of Chennai	Dr N. Munuswamy , Deptt of Zoology, University of Madras , Chennai- 600025

## National River Conservation

Sl. No.	Name of the Project/Scheme	Name of the Town/City
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### Haryana

1.	Interception & Diversion	Sonepat (YAP-II)
2.	Interception & Diversion	Faridabad (YAP-II)
3.	Interception & Diversion	Gurgaon (YAP-II)
4.	Interception & Diversion	Yamunanagar-Jagadhari (YAP-II)

### Madhya Pradesh

5.	Pollution Abatement	Hoshangabad (NRCP)
6.	Pollution Abatement	Rewa (NRCP)

### Orissa

7.	River Front Development	Talcher (NRCP)
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### Sikkim

8.	Pollution Abatement Works	Ranipool (NRCP)
9.	Pollution Abatement Works	Singtom (NRCP)

### Tamilnadu

10.	Solid Waste Management	Mayiladuthurai (NRCP)
11.	Interception & Diversion and Sewage Treatment Plant	Karur-Inam Karur (NRCP)
12.	Interception & Diversion and Sewage Treatment Plant	Mayiladuthurai (NRCP)
13.	Sewage Treatment Plant	Erode (NRCP)

### Uttar Pradesh

14.	Interception & Diversion	Allahabad(GAP-II)
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<b>YAP</b>	→	Yamuna Action Plan
<b>NRCP</b>	→	National River Conservation Plana
<b>S/C Towns</b>	→	Supreme Court Order Towns
<b>GAP-II</b>	→	Ganga Action Plan Phase-II(Main Stem)
<b>DAP</b>	→	Damodar Action Plan

## National Lake Conservation

Sl. No.	Lake	State	Approved cost (in Rs. crore)
1.	3 lakes of Bangalore namely Vengaiakere, Nagavara and Jarganahalli	Karnataka	11.48
2.	Bellandur lake, Bangalore	-do-	5.54
3.	Kotekere lake, Belgaum	-do-	5.64
4.	Bhishma lake, Gadag	-do-	2.50
5.	Lal Bagh, Bangalore	-do-	1.66
6.	Channapatna lake, Hasan	-do-	4.97
7.	Sharanbhasveshwara lake, Gulbarga	-do-	4.89
8.	Akkamahadevi lake, Haveri	-do-	2.64
9.	Kundawada lake, Davangere	-do-	3.41
10.	Kote Tavarekere lake, Chikmagalur	-do-	3.64
11.	Tripuranthkeshwar lake, Bidar	-do-	4.67
12.	Banjara lake, Hyderabad	Andhra Pradesh	2.75
13.	Powai lake, Mumbai	Maharashtra	6.62
14.	9 lakes in Thane	-do-	2.53
15.	Mahalaxmi lake, Vadagaon	-do-	1.85
16.	Rankala lake, Kolhapur	-do-	8.65
17.	Varhala Devi lake, Bhiwandi	-do-	4.60
18.	Mansagar lake, Jaipur	Rajasthan	24.72
19.	Anasagar lake, Ajmer	-do-	15.28
20.	Ooty lake	Tamilnadu	1.95
21.	Kodaikanal lake, Dindigul	-do-	10.42
22.	3 lakes of Agartala	Tripura	2.02
23.	4 lakes in Nainital	Uttanchal	16.85
24.	Nainital lake, Nainital	-do-	47.97
25.	Rabindra Sarovar	West Bengal	6.96
26.	Mirik lake, Darjeeling	-do-	4.01
27.	Dal lake, Sri Nagar	J&K	297.00
28.	Veli Akkulum lake, Thiruvananthpuram	Kerala	24.56
29.	Bindu sagar lake, Bhubaneshwar	Orissa	3.50
30.	Rani talab, Rewa	Madhya Pradesh	3.31
31.	Sagar lake, Sagar	-do-	21.33
32.	Shivpuri Lakes (Jadav Sagar, Chandpatha), Shivpuri	-do-	51.99
33.	Mansi Ganga lake, Govardhan, Mathura	Uttar Pradesh	22.71
	<b>Total</b>		<b>632.62</b>