

## Grant-in-Aid Projects: Closed

Sl. No	Title of the project	Name of the Funding Agency	Estimated Total Cost (Rs in lakhs)	Project Duration
1	Ocean Modelling Studies	DOD, New Delhi	150.00	1990 to 1993
2	Costal Pollution Modelling	DOD, New Delhi	12.5	1991 to 1994
3	Feasibility Study of Application of Mathematical Modeling to Switch Gear Design	L&T, Bombay	1.53	1991
4	MARSIS-Phase II Ocean Modelling Programmes	DOD, New Delhi	204.10	1993to1997
5	A Neural Network Based Atmospheric Prediction	DST		
6	Determination of Material Properties of Road Pavement Component Layers from Surface Measurements	CRRRI, New Delhi	2.42	1995 to 1998
7	Investigation Strain fields in Zones of Recent Seismicity in Southern India	DST	0.25	1995
8	Modelling of biogeochemical Processes in Upper Ocean	DOD, New Delhi	9.00	1995 to 1997
9	GPS Measurements			
10	Genesis, Intensification and Early Warning of Bay of Bengal Cyclones	DST	9.3	1996 to 1999
11	Development of a Model for Ash Distribution in Indian	DFRI, Dhanbad	1.00	1996
12	Determination of Crystal in India Eurasian Plate Qualification of Strain Accumulation in and across the Himalayas and Mechanism of Continental Tectonics	NSF	12.5	1997 to 1999
13	Determination of Crustal Deformation of South Indian Peninsula: A Search for Seismogenic zones (anomalous strain accumulation) Modeling of its Defermation Mechanism	DST	76.16	1997 to 2000
14	GPS Studies in the India-Eurasia collision zone.	NSF		1997 to 2000
15	Scale Interactions in Air Land Sea coupled environment & North-Earth Mansion	USIF(ONR), Us	2.13	1998
16	Hierarchical Lattices for Non-liner Dynamical models of Earthquake processors	DST	6.704	1997 to 2000
17	A Mathematical Modelling approach to the study of the Deformation characteristic so natural fault zones	DST	4.30	1998 to 2001
18	Indian Ocean Modelling of Dynamics (INDOMOD)		340.00	1998 to 2002
19	Establishment of GPS reference station in WIGS-84at Mumbai, Chennai, Calcutta and Trivandrum	AAI, Delhi	4.84	1999

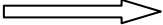
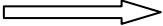
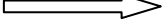
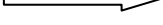
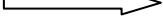
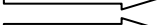


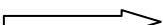
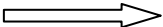
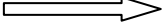
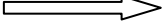
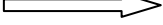
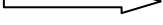
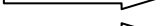
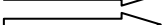
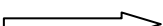
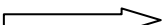
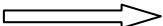
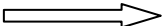
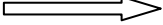
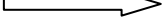



20	Modelling of the Biogeochemical Cycles in the Bay of Bengal	DOD, New Delhi	10.00	2000 to 2003
21	Establishment of a continuous Recording GPS Systems at Four Sites in North Eastern India	DST	48.32	2002 to 2003
22	Geometry Kinematics & Deformation Mechanisms in the Gish Transverse Zones in the Darjeeling	DST	20.32	2002 to 2005
23	AK in ematic study of Suspected major active Shear/fault Zones	DST	4.15	2002 to 2005
24	Dynamics of continental collision process and rheology o flower Crust	DST	19.10	2002 to 2005
25	Procurement of GPS receivers along with accessories	DST	110.94	2002 to 2004
26	Evaluation and Validation of Systems of Assimilation	IFCPAR, New Delhi	12.78	2003 to 2006
27	Modelling of Atmosphere-Hydrosphere-Biosphere Interaction	ISRO, Bangalore	3.00	2003 to 2004
28	Development of Indian Ocean community model	INCOIS, Hyderabad	19.15	2003 to 2007
29	Assimilation of In-situ and Satellite altimeter data into OGCM	INCOIS, Hyderabad	13.15	2003 to 2007
30	Active tectonics of Shillong Plateau using GPS based Geodesy	DST	20.52	2003 to 2006
31	Measurement of Accurate Coordinates for ACMI, Gwalior	DAMS, New Delhi	3.00	2003
32	Microdonation Investigation and Study of Building Parameters In the Anjar area Using Microtremor Recordings	DST	6.69	2003 to 2005
33	Impact of GCM generated Dynamical Boundary Field son Meso- scale Simulation	DoS, Ahmedabad	2.00	2003 to 2007
34	Thermal Structure and Mixed Layer Variations of the Indian Ocean in an OGCM and Intercomparison With in-situ and Satellite Observations	DST	10.08	2004 to 2007
35	Site effects in Ahmedabad based on array observations of Microtremors	DST	63.646	2004 to 2007
36	Inertial Effects on Forced Particle in Unsteady Flow at Low Reynolds Numbers	DST	6.12	2005 to 2008
37	GPS Re-Measurements in the Andaman and Nicobar Islands	DST	3.00	2005 to 2006
38	Carbon Sources and Sinks in Asia and the Indian Ocean	BHS, New Delhi	47.24	2005 to 2008

39	GPS re-Measurements to quantify Deformation in Uttarakhand and Ladakh Himalayas	DST	17.64	2005 to 2008
40	Realistic Site-Specific Hazard Assessment for Mega-cities Utilizing modeling techniques	DST	6.96	2005 to 2008
41	Finite element Modeling of Thermo Mechanical behavior And Microstructural Evolution in steel during hot deformation process	DST	5.88	2007 to 2009
42	Procurement of the 4 Campaign Mode GPS Systems		57.00	2007 to 2008
43	Monitoring of post-seismic deformation using GPS in Andaman Nicobar region	DST	8.848	2007 to 2010
44	The Impact of Physical Assimilation of Vertical Profiles of Latent Heating & Moistening of Short-Range Numerical Weather Prediction	DoS, Ahmedabad	10.12	2007 to 2010
45	High Precision CO2 Concentration Measurements at Pondicherry & its Inversion to Improve Quantitative Estimates of Global Sources & Sinks	DST	19.372	2008 to 2011
46	Advanced Mathematical Modelling and Artificial Intelligence System in Time Series (Earth, Ocean & Atmospheres)	DST	14.522	2008 to 2011
47	Estimation of Carbon Fluxes in The Indian Ocean	INCOIS, Hyderabad	55.00	2008 to 2012
48	Earthquake Hazard Quantification on GIS Platform	DST	33.348	2008 to 2011
49	Modelling of Marine Biogeochemical Cycles in Northern Indian Ocean	DST	13.25	2009 to 2012
50	Plate Kinematics Geodynamics and Earthquake Occurrence Processes in the Andaman Nicobar Region	MoES	100.700	2009 to 2014
51	Crustal & Mantle Structure along the East-West Corridor across Dharwar craton for Constraining models of the crustal Evolution	DST	47.128	2009 to 2013
52	Study Shear Wave Velocity Structure in Delhi City Using Micro tremor Arrays	MoES	4.25	2010 to 2011
53	Industrialization of Weather Informatics Services and Technologies (IWIST)	KSNDMC/EIDPARR Y/ GOVKARNATAKA ETC	896.00	2010 to 2015
54	Shock Mitigating using Tapered Granular Alignments (Defense Application)	ARMREB/DRDO/ NEWDELHI	22.488	2011 to 2013

55	Analysis of Indian National GNSS Network Data for Reference Frame Realization PWC&TEC Computation	MoES	37.714	2011 to 2014
56	Seismic Hazard and Risk Assessment based on Pattern Recognition Himalayas & Adjacent Territories	DST	8.38	2011 to 2013
57	Earthquake Hazard and Risk Reduction on the Indian Subcontinent	STIFTELSEN, NORWAY	40.37	2012 to 2015
58	Future Climate change Projection for Kerala Using Ultra-high Resolution Global Climate Model	GOVT.OFKERALA	58.438	2012 to 2015
59	Integrating Disease Prediction with Weather and Climate Models Seamlessly	British Council, UKIERI	17.543	2012 to 2012
60	Extreme Weather and Climate Events in the 21 <sup>st</sup> Century Projections from different Climate Scenarios (GAP-1001)	DST	33.97	2013 to 2017
61	Role of Background Error Statistics in Mesoscale Data Assimilation (GAP-1002)	DST	24.21	2013 to 2017
62	Investigation of Mega City Effect on the Genesis and Intensity of Extreme Rainfall Events and their Impact (GAP-1003)	DST	29.60	2014 to 2017
63	Diagnosis of Increased Seismic Hazard in Himalayas and Adjacent Territories (GAP-1004)	DST-Russian Federation of Basic Research MoU	13.176	2014 to 2016
64	Mathematical Modeling of Capsule Rot Disease of Small Cardamom (GAP-1005)	ICRI	7.98	2014 to 2015
65	Modelling of Marine Biogeochemical Cycles in The Indian Ocean	Ministry Of Earth Science	65.20	01/11/2011 To 31/03/2018
66	Investigation of Relative Roles of local and large-scale circulation in the Dynamics of Cloudburst using Simulation with a Non-Hydrostatic Model (GAP-1006)	DST	24.50	14/09/2014 To 09/09/2018
67	Carbon Cycle Studies of the Indian Ocean Using Ocean Biogeochemical Model Simulations and Observations (GAP-1007)	DST	24.03	05/08/2015 To 04/08/2018
68	Quantification of past Changes and Assessment of Present Status of Water bodies Distribution over Bangalore (GAP-1022)	CSIR-National Environmental Engineering Research Institute, Nehru Marg,	15.486	07/02/2020 To 06/02/2021

		Nagpur 440020 (Maharashtra)		
69	Improving the Prediction of the Extremes of the Interannual Variation of the Indian Summer Monsoon Rainfall (ISMR) by CFSv2 (GAP-1013)	Indian Institute of Tropical Meteorology, Pune, Ministry of Earth Science	18.79	01/09/2018 To 31/08/2021
70	Integrated System Dynamical Model to Design and testing Alternative Intervention Strategies for Effective Remediation and Sustainable water Management for two Selected River Basins of Indian Himalaya (GAP-1012)	MoEF&CC	94.57	01/06/2018 To 31-05-2021 Extended 31/12/2021
71	Hyperspectral Imaging for Sharper Definitions of Himalayan Ecosystems and its High Value plant Species under Climate Uncertainties (GAP-1014)	Banaras Hindu University, Varanasi Funding from Ministry of Environment, Forest & Climate Change	15.506	27/12/2018 To 26/12/2021
72	A Darknet/Network Telescope Based Cyber Security Monitoring and Inference Framework (GAP-1018)	Ministry of Electronics and Information Technology	49.98	16/07/2019 To 15/07/2021 Extended 31/08/2022
73	Detection and Migration of Cyber-attack in Vehicular Ad-hoc Networks (VANETs) (Sponsored Scientific Project, SSP-1001)	Cognizant Technology Solutions	30.00	1/04/2019 To 31/03/2022 Extended 30/09/2022
74	Enhancement of the Quality of Livelihood Opportunities and Resilience for the People in the Indian Himalayas, Through Design of Intervention Strategies aimed at Maximizing Resource Potential and Minimizing risks in urban-rural Ecosystem (GAP-1011)	Ministry of Environment, Forest & Climate Change (MoEF&CC) GOI	₹138.1 Lakhs	28/03/2018 To 31/03/2021 Extended To 28/12/2021
75	Geological Characterization of the Kashmir valley with the Objective of Quantifying Probabilistic Hazard and risk in the high-risk areas of the Valley Using a Logically Integrated set of geo-scientific Investigation (GAP-1010)	Department of Earth Science, GOI	151.50 Lakhs	29/03/2016 To 28/03/2019 Extended To 30-09-2022

76	Analysis of Urban 'heat islands', air Pollution Dynamics and Extreme Heat wave Phenomena in India and Russia (GAP-1015)	Department of Earth Science, GOI	24.052 Lakhs	14/02/2019 To 01/07/2021
77	Assessment of Regional Hydrology Using Space Borne Gravity Observations: Robust Estimation of Deformation due to hydrological Loading in NE-India and Upper Ganga River basin. (GAP-1016)	Department of Science & Technology.	57.42 Lakhs	27/05/2019 To 26/05/2022 Extended To 31-12-2022
78	Modelling and Forecasting of High Impact Weather Events in the Beas basin, and Designing a Proto-type Advance Warning System for Mitigating their Adverse Impacts (GAP-1020)	Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India	143.7 Lakhs	20/01/2020 To 19/01/2023
79	Design and Development of a Hybrid Modelling System for the Management of select Horticultural crops in Andhra Pradesh (GAP-1025)	Dr. Y.S.R. Horticultural University (YSRHU) Andhra Pradesh	15.00 Laksh	10/02/2022 To 09/02/2023

CSIR		Council of Scientific & Industrial Research
DST		Department of Science & Technology
MoES		Ministry of Earth Sciences
NIO		National Institute of Oceanography
DIT		Department of Information Technology
DoS		Department of Space
DOD		Department of Ocean Development
KSNDMC		Karnataka State Natural Disaster Monitoring Centre, Bangalore
DRDO		Research and Development Organization
ICRI		Indian Cardamom Research Institute
ARMREB		Armament Research Board-DRDO
INCOIS		Indian National Centre for Ocean Information Services
ISRO		Indian Space Research Organization
IFCPAR		Indo-French Centre for the Promotion of Advanced Research
USIF		US Immigration Fund
NSF		National Science Foundation
L&T		Larsen & Toubro
NISCAIR		National Institute of Science Communication and Information Resources
IMTECH		Institute of Microbial Technology
CIMFR		Institute of Mining and Fuel Research
CBRI		Central Building Research Institute
NPL		National Physical Laboratory
BHS		British High Commission
AAI		Airports Authority of India
MoEF&CC		Ministry of Environment, Forest and Climate Change