

**Major International Sponsored Research Projects Undertaken
During the Financial Year 2017-18**

Project Title	Sponsoring Agency / Collaborators	Sanctioned Funds (Rs. Lacs)	Principal Investigator & Department
Local Treatment of Urban Sewage Streams for Healthy Reuse (LOTUS) (INDO-DUTCH Joint project)	Through Department of Biotechnology, India Participating Dutch Institute : TU Delft	1272.98	T.R.SREEKRISHNAN Dept. of Biochemical Engineering & Biotechnology
Public Engagement on Health and Development in India	Bill & Melinda Gates Foundation United States	960.00	Mahim Sagar Dept. of Management Studies
Integrated low cost water sensors for real- time river water monitoring and decision- making	Indo-US Science and Technology Forum (IUSSTF) United States	900.00	Arun Kumar Dept. of Civil Engineering
UI-ASSIST: US India Collaborative for Smart Distribution System with Storage	Indo-US Science and Technology Forum (IUSSTF) United States of America Participating US Institutes : Massachusetts Institute of Technology, Cambridge, Texas A&M University, Idaho National Laboratory, Lawrence Berkley National Lab, GE Grid Solutions , SnoPUD Burns and McDonnell AVISTA ETAP	753.42	ABHIJIT RAMCHANDRA ABHYANKAR Dept. of Electrical Engineering
UK India Clean energy Research Institute (UKICERI) - Project II	Through International Division, Dept. of Science & Technology, Participating UK Institutes : Loughborough University, Imperial College London, University of Mancheste, University of Birmingham, University of Southampton, University of Warwic, kCardiff University, University of Exeter, Swansea University United Kingdom	298.50	BHIM SINGH Dept. of Electrical Engineering
Civil Society Advocacy and Inclusive Development in India	Netherlands Organization for Scientific Research Netherlands	133.72	Sarbeswar Sahoo Dept. of Humanities & Social Sciences
Tractable Probabilistic Logic Models: A New Deep Explainable Representation	University of Texas United States of America	128.54	PARAG SINGLA Dept. of Computer Science & Engg.

Development of an Integrated Process for Conversion of Biomass to Affordable Liquid Biofuel	Through Department of Science & Technology (DST) Latvia	90.09	Atul Narang Dept. of Biochemical Engineering & Biotechnology
UK India Clean Energy Research Institute (UKICERI) - Project I.	Through International Division, Dept. of Science & Technology, Participating UK Institutes : Loughborough University, Imperial College London, University of Mancheste, University of Birmingham, University of Southampton, University of Warwic, kCardiff University, University of Exeter, Swansea University United Kingdom	85.34	SUKUMAR MISHRA Dept. of Electrical Engineering
Support for Secure Execution in Distributed Systems Using Encrypted Keys	Semiconductor Research Corporation United States of America	58.09	SMRUTI RANJAN SARANGI Dept. of Computer Science & Engg.
Collaborative Decision Making on Container Supply Chains	Through University Grants Commission, India (Under UAEIRI-UGC scheme) UK participating Institutes : Newcastle University Business School, United Kingdom	53.26	SURYA PRAKASH SINGH Dept. of Management Studies
Advanced Analytics for Green and Resilient Supply Chain Decision Making	Through University Grants Commission, India (Under UAEIRI-UGC scheme) UK participating Institutes : Loughborough University, UK, The Carbon Trust, London, United Kingdom	52.73	RAVI SHANKAR Dept. of Management Studies
Theoretical and experimental studies of suspensions of magnetic nanoparticles, their applications and generalizations	Through Dept. of Science & Technology, India (under DST-UKIERI scheme) Participating UK Institutes : University of Bath, United Kingdom	45.48	VARSHA BANERJEE Dept. of Physics
Collaborative Activities Under India-Ethiopia Science and Technology Cooperation Frame work	Through Department of Science & Technology (Collaborative Activities Under India-Ethiopia Science and Technology Cooperation Frame : collaborative activities between MoST (Ethiopia) and DST)	38.59	Bijaya Ketan Panigrahi Dept. of Electrical Engineering

Electrospun Nanofibers with Embedded Yolk-Shell Particles for Catalytic Applications	Through International Division, Dept. of Science & Technology, India Collaborating agency : DFG (Deutsche Forschungsgemeinschaft), Germany Participating Institute : LeibnizInstitut für Polymerforschung Dresden e.V., Hohe Str. 6, 01069 Dresden	37.18	BHANU NANDAN Dept. of Textile Technology
Influence of sulphates on the hydration of cements	Chryso SAS France	36.00	Shashank Bishnoi Dept. of Civil Engineering
Pedestrian Safe Public Transport System: Infrastructure, Operations, Vehicles, Policies and Legislation II (PS - PTS II)	Volvo Research Education Foundations, Sweden	31.62	GEETAM TIWARI Dept. of Civil Engineering
Process Development and Assessment/Evaluation of Microalgae Based Biofuels and Value Added Products	Through International Division, Dept. of Science & Technology Participating Institute : University of Moratuwa, Sri Lanka	30.20	ANUSHREE MALIK Centre for Rural Development Technology (CRDT)
Indo-US Center for Algorithms under Uncertainty	Indo-US Science and Technology Forum (IUSSTF) United States	24.63	Amit Kumar Dept. of Computer Science & Engg.
A Systems Approach to Air Pollution in Delhi (ASAAP)	Global Challenges Research Fund (GCRF) United Kingdom	22.58	Mukesh Khare Dept. of Civil Engineering
Towards an Integrated Global Transport and Health Assessment Tool (TIGTHAT)	University of Cambridge United Kingdom	21.48	GEETAM TIWARI Dept. of Civil Engineering
Ultra Fast Thermal Simulation of Electronic Systems	Semiconductor Research Corporation, USA	20.09	SMRUTI RANJAN SARANGI Dept. of Computer Science & Engg.
Electrical Degradation and Reliability of 45nm SOI Transistors under RF Operation	Global Foundries Inc. United States	19.50	Abhisek Dixit Dept. of Electrical Engineering
Memory Hierarchy Bandwidth Management in Multiprocessor Systems on chip	Semiconductor Research Corporation United States of America	19.50	PREETI RANJAN PANDA Dept. of Computer Science & Engg.

synthesis of Novel Low Cost Biosorbents based on Modified Cellulosic agrowastes by Tetraethylenepentamine, Triethylenetriamine and adsorption study for Anionic dyes Removal	Dept. of Science & Technology, India Ministry of Higher Education and Scientific Research of the Republic of Tunisia	18.17	SUNIL KUMAR KHARE Dept. of Chemistry
QoS provision for Multigigabit-supporting 5G wireless mobile networks	Through Department of Science & Technology (DST), India Participating Institutes : Hanyang University and Chungnam National University, Korea	15.17	Jun Bae Seo Dept. of Electrical Engineering
Development of 3D Bioprinted Osteochondral Tissue	Through International Division, Dept. of Science & Technology, India Participating Institute : Orthopedic Rizzoli Institute Laboratory of Immunoreumatology and Tissue Regeneration, Italy	10.80	SOURABH GHOSH Dept. of Textile Technology
Integrated hydro-economic framework for basin-scale water quality and quantity management	Shastri Indo-Canadian Institute Canada	10.00	Dhanya C.T. Dept. of Civil Engineering
Probabilistic Inference over Textual Knowledge bases	International Business Machines United States	9.58	Mausam Dept. of Computer Science & Engg.
Towards an integrated approach for assessing the impact of climatic stresses on agriculture and the exchange of greenhouse gas on the Indo-Gangetic Plain	Through Department of Science & Technology, India Participating UK Institute : Earth Observation Science Leicester Institute for Space and Earth Observation University of Leicester United Kingdom	7.48	Sagnik Dey Centre for Atmospheric Sciences
Collaboration with Indiana University in Tactile Graphics	Indiana university United States of America	6.40	M. BALAKRISHNAN Dept. of Computer Science & Engg.
Fabrication and Characterization of Function Polymeric Matrix by Click-Chemistry for Medical Applications and 3D Bioprinting	Through International Division, Dept. of Science & Technology, India Participating Institute : El Behouth, St. Dokki, Cairo, Egypt	6.20	SOURABH GHOSH Dept. of Textile Technology
GCRF-EPSRC Institutional Sponsorship 2017-18	Engineering & Physical Sciences Research Council United Kingdom	4.30	P V Madhusudhan Rao Dept. of Mechanical Engineering
Joint Research on Global issues in Container Supply Chain	University of Connecticut United States	0.94	Ravi Shankar Dept. of Management Studies

**International Consultancy Jobs Undertaken Through IRD Unit
During the Financial Year 2017-18**

Project Title	Sponsoring Agency	Sanctioned Funds (Rs. Lacs)	Consultant Incharge & Department
Urban transport digital platforms in New Delhi, India : Aggravators or Facilitators	Julia Pomares Argentina	13.31	P Vigneswara Ilavarasan Dept. of Management Studies
Assistance with preparation for technical paper for UNFCCC	Margaree Consultants INC. Canada	5.03	Ambuj D Sagar Dept. of Humanities & Social Sciences