

Major International Sponsored Research Projects Undertaken During the Financial Year 2019-20

Project Title	Sponsoring Agency / Collaborating Institute	Sanctioned Funds (Rs. Lacs)	Principal Investigator / Department
Enhancing India's Policy Analysis Capabilities to Meet Energy and Environment Challenges	Children's Investment Fund Foundation - UK (Funded through Indian Office)	532.50	Ambuj D Sagar School of Public Policy
Study of The Erythroid and Megakaryocyte Lineages Under Normal Development and Pathological Myeloproliferation	Wellcome Trust/DBT India Alliance	374.19	Anita Roy School of Biological Sciences
Establishing a Research Program in India Focused on Evaluating Safety of Rural Roads and Highways	National Institute of Health, USA	102.60	Geetam Tewari Dept. of Civil Engineering
p53 in Regulation of Epithelial-Mesenchymal Transition in Breast Cancer: Role of micro-RNA	Department of Science & Technology International Bilateral Cooperation Division & Russian Science Foundation <u>Collaborating Institutes</u> Russian Academy of Sciences, Russia	96.30	Ritu Kulshrestha Dept. of Biochemical Engineering & Biotechnology
Collaborative Research and Education under IIT Delhi- BNERC, Toyo University Joint Bio-Nano Mission Program	Bio-Nano Electronics Research Centre, Toyo University Japan	62.96	Joby Joseph Dept. of Physics
Assessment of Fire Performance of Structural Elements and Structural Systems Through Conventional Fire Tests and Hybrid Fire Simulation	Thorough Department of Science & Technology International Bilateral Cooperation Division <u>Collaborating Institutes</u> University of Toronto, Canada Carleton University, Canada Central Building Research Institute, India	59.99	Dipti Ranjan Sahoo Dept. of Civil Engineering
Heat Transfer Analysis of Methane Steam Reforming Reactions Through Particle-Resolved CFD Simulations (HeTrAPaR-cfd)	Haldor Topsøe A/S Denmark	55.25	Vivek Vitthal Buwa Dept. of Chemical Engineering

Re-engineering High-end Audiometric Devices for Robust and Affordable Audiological Testing	Indo German Science and Technology Centre <u>Collaborating Institutes</u> Technische University, Munchen Path Medical GmbH, Munchen AIIMS India	54.64	Dinesh Kalyanasundaram Centre for Biomedical Engineering
Design of Anti(bio-) Fouling Block Copolymer Membranes by Molecular functionalization for Clean Water Generation	Alexander von Humboldt Foundation Germany	44.00	Bijay Prakash Tripathi Dept. of Material Science & Engineering
Sustainable Technologies for Distributed Level Application and Energy Support to Rural Development-II (STAR-II)	Through Department of Science & Technology International Bilateral Cooperation Division <u>Collaborating Institutes</u> Fondazione Bruno Kessler ARES Italy IIT Roorkee, India	36.82	Dibakar Rakshit Centre for Energy Studies
Optimizing System Performance and Energy in Multi-Sensor Visual Perception Systems (Under Indo - U.S. Virtual Networked Centre)	Indo-US Science and Technology Forum (IUSSTF)	33.52	Chetan Arora Dept. of Computer Science & Engineering
Study of Various Classification Problems Using Frequency Modulated Continuous Wave (FMCW) Radar	Semiconductor Research Corporation United States	25.82	Seshan Srirangarajan Dept. of Electrical Engineering
Collaborative Research On Development of Medical Devices And Training of Hiroshima Biodesign Affiliates of Translational Research Centre Hiroshima University	Hiroshima University Japan <u>Collaborating Institutes</u> Hiroshima university, Japan AIIMS, India	24.00	Harpal Singh Centre for Biomedical Engineering
Scientific Research In The Field f Solid Mechanics	Nokia Solutions & Networks Oy Finland	23.30	Gaurav Singh Dept. of Applied Mechanics
Concentrating Solar-Thermophilic Anaerobic Reactor For Municipal Solid Waste (COSTARMSW)	Through Department of Science & Technology International Bilateral Cooperation Division <u>Collaborating Institutes</u> Brunel University London, UK NIT Trichy, India	21.60	Virendra Kumar Vijay Centre for Rural Development Technology

Power To The People: Democratising Energy Through Decentralised Manufacture and Production of Affordable, Reliable, Sustainable Solar Power	Global Challenges Research Fund (GCRF), UK <u>Collaborating Institute</u> Swansea University, UK	21.06	Sandeep Kumar Pathak Centre for Energy Studies
Improving Skilling, Signalling and Safety in the Indian Labour Market	The University of Chicago United States	17.11	Nandana Sengupta School of Public Policy
Synthesis of (Hydro-)Gels Bearing Organo-catalysts for the Use in Microfluidic Reactors	Department of Science & Technology International Bilateral Cooperation Division DAAD Germany <u>Collaborating Institute:</u> University of Paderborn, Germany	14.90	Leena Nebhani Dept. of Material Science & Engineering
Mechanisms of Choosing Pronouns in Hindi	Leverhulme Trust, uk <u>Collaborating Institute</u> University of Stirling, UK	10.96	Samar Husain Dept. of Humanities & Social Sciences
Understanding Toxicity and Uptake of Nanomaterials to Edible Plants During Reuse of Nanomaterials-Contaminated Wastewater As Irrigation Water	Through Department of Science & Technology International Bilateral Cooperation Division <u>Collaborating Institutes</u> Yamagata University Japan	4.82	Arun Kumar Dept. of Civil Engineering

Major International Consultancy Jobs Undertaken During the Financial year 2019-20

Title	Sponsoring Agency	Sanctioned Funds (Rs. Lacs)	Consultant Incharge/ Department
Testing Shape Memory Materials for Orthodontics	K Line Europe GmbH, Germany	0.83	Bipin Kumar Dept. of Textile & Fibre Engineering
Testing Shape Memory Performance of Materials used in Invisible Orthodontics	K Line Europe GmbH, Germany	0.81	Bipin Kumar Dept. of Textile & Fibre Engineering