

Department of Science & Technology
(International Bilateral Co-operation Division)

Result

SCIENTIFIC RESEARCH AND TECHNOLOGICAL DEVELOPMENT PROJECTS 2022-2024 INDIA-PORTUGAL

Within the framework of the Memorandum of Understanding between the Department of Science and Technology (DST) of the Ministry of Science and Technology of the Government of India, and the Foundation for Science and Technology (FCT) of the Ministry of Science, Technology and Higher Education of the Portuguese Republic, a call for joint scientific research and technological development projects was launched to provide financial support for joint research and innovation activities carried out by scientists from both parties.

A total of 417 joint projects were received and evaluated independently on both sides. After the extensive evaluation process, the following 10 projects were recommended for support in principle after getting mutual consent from both sides. The individual letter will be sent to the respective Principal Investigator.

Project Title	Indian PI	Portugal PI Details
Hybrid underwater robotic systems and Artificial Intelligence-based seabed imaging tools for marine ecosystem studies.	Pramod Kumar Maurya Department of Marine Instrumentation CSIR National Institute of Oceanography Goa	Antonio Pascoal Institute- Associação do Instituto Superior Técnico para a Investigação e o Desenvolvimento IST-ID
Engineering 2D materials for scalable energy harvesting applications (2DM4EH)	Arindam Ghosh Indian Institute of Sciences Bangalore	Sascha Sadewasser Institute- INL International Iberian Nanotechnology Laboratory
Combination of Constructed Vertical flow Wetlands, Microalgae Photobioreactor and Microbial Fuel Cell (KIT) for wastewater treatment in small pig production farms	Srikanth Mutnuri Department of Biological Sciences Birla Institute of Technology Pilani	Luisa Gouveia Institute- Nacional de Energia e Geologia, I.P.
Cytoskeletal and membrane adaptations of stretched neurons from tension-induced growth to traumatic brain injury	Pramod A Pullarkat Cell BioPhysics Lab Raman Research Institute Bangalore	Monica M. Sousa Institute- Instituto de Investigação e Inovação em Saúde, Universidade do Porto
Anomalous Moisture Transport for Hydrological Extremes in a Changing Climate AMOTHEC	Bibhuranjan Nayak CSIR-Institute of Minerals and Materials Technology Bhubaneshwar	Bruno Valentim Institute- Faculdade de Ciências - DGAOT
Integrated solution for coal ash as a source of critical elements and as a	Ankit Agarwal Department of Hydrology	Ricardo Trigo Institute- Faculty of Science

substituting material for natural graphite and clay through development of some value-added products	Indian Institute of Technology Roorkee	University of Lisbon
Understanding sorption mechanisms in Li /Na silicate sorbents for post/pre-combustion CO2 capture application- synthesis and solidstate NMR strategies	Vivek Polshettiwar Department of Chemical Sciences, Tata Institute of Fundamental Research Mumbai	Luis Mafra Institute- University of Aveiro CICECO-Aveiro Institute of Materials
Evaluation and Retrofitting of Existing Buildings for Safe and Sustainable Built Environment	Yogendra Singh Department of Earthquake Engineering Indian Institute of Technology Roorkee	Humberto Varum Institute- University of Porto Portugal
Electrospun Nanofiber based Personal Protective Equipment for active filtration of micro-organisms.	Prasanta Kumar Panda Materials Science Division, CSIR-National Aerospace Laboratories Bangalore	Raul Fanguero Institute- Minho University
Integrated platform for recycling of textile dyeing wastewater using Aqueous Biphasic Systems A Circular Economy Approach CirRe-Dyeing	Ramesh L Gardas Department of Chemistry Indian Institute of Technology Madras	Jorge Fernando Brandao Pereira Institute- University of Coimbra