

## List of recommended R&amp;D proposals under India-Sri Lanka Joint R&amp;D Call-2024:

S. No.	Title	Sri Lankan PI and Institute	Indian PI and Institute
1	Dietary LC-PUFA and Micronutrients in Broodstock Feed for Enhancing Reproductive Efficiency and Quality Seed Production in Indian Major Carps (IMC)	<b>Dr. Sanchala Gallage</b> Department of Aquaculture and Fisheries Faculty of Livestock, Fisheries and Nutrition Wayamba University of Sri Lanka Makandura	<b>Dr. Shiba Shankar Giri</b> Division of Fish Nutrition and Physiology ICAR Central Institute of Freshwater Aquaculture Kausalyaganga, Bhubaneswar, Orissa
2	Understanding the role of Chromatin Remodelling Complex (NuRD) in Microsatellite instability and its clinical relevance in Colorectal and Endometrial Carcinomas	<b>Dr. Thilini Wathsala Wijesiri</b> Faculty of Medicine University of Ruhuna	<b>Prof. Rayala Suresh Kumar</b> Indian Institute of Technology Madras Chennai, Tamilnadu
3	Delineation of subsurface structure and thermal characteristics of Wahawa Geothermal Field, Sri Lanka for geothermal energy exploration using integrated geophysical methods	<b>Prof. N G S S Gamage</b> Department of Physics Faculty of Applied Sciences University of Sri Jayewardenepura	<b>Dr. Sandeep Kumar Gupta</b> CSIR-National Geophysical Research Institute Hyderabad, Telangana.
4	High performance and high durable polymer electrolyte membrane fuel cell stack utilizing Pt loaded on a bio-based polymer wrapped Sri Lankan vein graphite as the electrocatalyst.	Dr. Don Terrence Dhammika Weerathunga Department of Polymer Science Faculty of Applied Sciences University of Sri Jayewardenepura	Dr. Raman Vedarajan Center for Fuel Cell Technology International Advanced Research Center For Powder Metallurgy and New Materials Hyderabad, Telangana
5	Landslide Monitoring and Mapping Using a Multimodal Approach with Geospatial, Geophysical, and Machine Learning Techniques	Dr. Gamage Sanka Nirodha Perera Faculty of Geomatics Sabaragamuwa University of Sri Lanka	Dr. Surendar M Center for Disaster Mitigation and Management Vellore Institute of Technology Vellore, Tamilnadu
6	Identification of salinity tolerance gene variants in locally adapted rice ( <i>Oryza sativa</i> L.) genotypes from India and Sri Lanka conferring the best salinity tolerant traits (sodium exclusion and tissue tolerance) and development of molecular markers by genome and exome profiling	Prof. Ovitigala Vthanage Don Sisira Jagathpriya Weerasena Institute of Biochemistry Molecular Biology and Biotechnology University of Colombo	Dr. Gayatri Venkataraman, M S Swaminathan Research Foundation Chennai, Tamilnadu
7	Investigative the osteoprotective role of Sri-Lankan Traditional Polyherbal preparations in ameliorating Osteoporosis	Dr. Aluthge Dona Dulshara Sachini Amarasekara Center for Immunology & Molecular Biology, Department of Zoology & Environment Sciences, Faculty of Science University of Colombo	Dr. Rupesh K Srivastava Department of Biotechnology All India Institute of Medical Sciences Ansari Nagar, New Delhi
8	Artificial-Intelligence-enabled radiotherapy planning with reduced radiation for cancer patients in the Indian Subcontinent	Dr. Muditha Bandara Department of Nuclear Science Faculty of Science University of Colombo	Dr. Jaladhar Neelavalli Indian Institute of Technology - Hyderabad Hyderabad, Telangana

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9	Distribution, Fractionation and Remediation of Toxic and Rare earth Metals in Soils from E-Waste and Coal Processing Sites	Dr. Anushka Upamali Rajapaksha Ecosphere Resilience Research Center Faculty of Applied Sciences University of Sri Jayewardenepura	Dr. Rangabhashiyam Selvasembian Department of Environmental Science and Engineering School of Engineering and Sciences SRM University Amaravathi, Andhra Pradesh
10	Interactive Robotic Wheelchair with collaborative robotic arm for Proactive Interaction through Spatial Awareness in Navigation and Object Handling for Enhanced Service.	Dr. A. G. Buddhika P. Jayasekara Department of Electrical Engineering University of Moratuwa	Dr. Rajesh Kannan Megalingam, Director Humanitarian Technology Labs and Assistant Professor, Amrita School of Engineering, Amritapuri, Kollam, Kerala, rajeshm@am.amrita.edu, 9496120900
11	Explorative, Economic, and Efficient Perovskite Based Energy Harvesting Devices.	Dr. Amalraj Peter Amalathas Department of Physics University of Jaffna	Dr. Murali Banavoth University of Hyderabad Hyderabad, Telangana
12	Waste to wealth approach by production of polyhydroxyalkanoate from the treatment of lipid waste and exploring its use in various applications	Dr. A M L N Gunathilake Department of Civil Engineering The Open University of Sri Lanka	Dr. Amit Bafana CSIR National Environmental Engineering Research Institute Nagpur, Maharashtra.
13	Deciphering pathogenesis of blister blight phytopathogen <i>Exobasidium vexans</i> of tea using genome and transcriptome-based analysis and its sustainable management using microbial antagonists.	Dr. Ganga Devi Sinniah Plant Pathology Division Tea Research Institute of Sri Lanka, Talawakelle	Prof. Praveen Kumar Verma School of Life Sciences Jawaharlal Nehru University New Delhi
14	Design and Development of Block-Chain Enabled Secure and Bio-safe NFMI-based Wireless Body Area Network (SB-NFMI-WBAN)	Prof. Dush Nalin K. Jayakody Department of Electrical and Electronics Engineering Sri lanka Information Technology Malabe	Dr. Vinay Kumar Motilal National Institute of Technology Allahabad Prayagraj
15	A Geo-AI Approach to Optimize Sugarcane Yield Estimation: Integrating Surveillance, Forecasting, and Policy Reform in India and Sri Lanka	Dr. W B M A C Bandara Department of Agricultural Engineering and Environmental Technology Faculty of Agriculture University of Ruhuna	Dr. Shray Pathak, Department of Civil Engineering Indian Institute of Technology Ropar, Punjab
16	Development of Printable Carbon Ink Using Sri Lankan Graphite for Printed Photovoltaics	Dr. Hasitha Chandana Weerasinghe Department of Physics and Electronics University of Kelaniya	Prof. S Sundar Kumar Iyer Department of Electrical Engineering IIT Kanpur Kanpur, Uttar Pradesh