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ANERT

Agency for New and renewable Energy Research and Technology
നവീനവും പുനരുപയോഗയോഗ്യവുമായ ഊർജ്ജ ഗവേഷണങ്ങൾക്കും സാങ്കേതിക വിദ്യകൾക്കുമുള്ള ഏജൻസി
DEPARTMENT OF POWER, GOVERNMENT OF KERALA
Law College Road, PMG, Thiruvananthapuram 695033 • director@anert.in • www.anert.gov.in
Tel.: (+91-471) 2338077, 2334122, 2333124, 2331803 • Fax: (+91-471) 2329853



ANERT-RD/10/2024-T8

17-08-2024

NOTE

Sub: Shortlist of Proposals Selected for Further Evaluation by PEC under SRI 2023-24

Based on the proposals received and the presentation made by the Principal Investigators before the Internal Screening Committee of ANERT, the following proposals have been provisionally selected for further evaluation by the Proposal Evaluation Committee (PEC) under SRI 2023-24.

Sl. No.	Proposal Id	Title of the Project	Principal Investigator	Recommendation	Remarks
1	SRI 05 /2023-24	Design and Development of Weight Optimized Hydrogen Storage Device Embedded with Metal Hydride-Polymer Composite	Dr. Mohan G, Professor, Department of Mechanical Engineering, Sree Chithira Thirunal College of Engineering, Pappanamcode, Thiruvananthapuram	Recommended with modification	Cost may be reduced by shared equipment and omitting manpower cost
2	SRI 14 /2023-24	Development and Optimization of Technologies for Enhanced and Sustainable in-situ Biodiesel Production from Oleaginous Microbes	Dr. Radhakrishnan E K, Associate Professor, School of Biosciences, MG University, Kottayam	Recommended with Modification	Recommended excluding Manpower cost
3	SRI 20 /2023-24	Exploring the Energy Recovery Potential of the Sewage sludge generated at 107 ML D Sewage Treatment Plant in Tropical Climate	Dr. Arun P, Associate Professor, Department of Mechanical Engineering, National Institute of Technology Calicut, Kozhikode	Recommended with Modification	Recommended excluding Manpower cost
4	SRI 16 /2023-24	Tuning the magnetic anisotropy of Fe ₃ Sn Heusler alloy for heat energy harvesting application	Dr. Chitra Lekha C S, Assistant Professor, School of Nano Science and Nano Technology, MG University, Kottayam	Recommended with Modification	Recommended excluding Manpower cost. Availability of the PI for the entire duration to be confirmed
5	SRI 19	Design and Development	Dr. P Mohammed Shafi	Recommended	Availability of t

	/2023-24	ment of V2C Mxene/SrVO3 Composite Cathode Material for High Energy Fast Charging Zinc Ion Hybrid Super Capacitor for Electric Vehicle Application	, INSPIRE Faculty, Department of Physics, National Institute of Technology Calicut, Kozhikode	ed	he PI for the entire duration to be confirmed
6	SRI 11 /2023-24	Nano Enhanced Solar Still: Optimizing Efficiency and Sustainability with Phase Change Materials	Dr. Venkitaraj K P, Assistant Professor, Department of Mechanical Engineering, College of Engineering Adoor, Pathanamthitta	Recommended with Modification	The system design to be modified in consultation with ANERT
7	SRI 13 /2023-24	Development and Field Testing of an Intelligent Solar Hybrid Adsorption Cooling and Desalination System (i-ACDS) Integrating an Energy Storage Unit Effective for Kerala Climate Conditions	Dr. Baiju V, Assistant Professor Energy Research Lab, Department of Mechanical Engineering, TKM College of Engineering Kollam	Recommended with Modification	Recommended to carry out in phases without Manpower cost
8	SRI 22 / 2023-24	Asymmetric Supercapacitors with Eco-Friendly-Derived Graphene based Hybrid Electrode Materials for Electric/Electronic Devices	Dr. Binitha N N, Professor, Department of Chemistry, University of Calicut, Calicut University PO, Malappuram	Recommended with Modification	Cost may be reduced omitting funding for clean room facility and manpower
9	SRI 04 / 2023-24	Design and Development of Vertical Axis Wind Turbine for Domestic Applications	Dr. Vipin Gopan, St. Thomas College of Engineering & Technology, Chengannur, Alappuzha	Recommended with Modification	Recommended excluding Manpower cost
10	SRI 09 / 2023-24	Photoelectrochemical hydrogen production and self driven PEC device (Solar cell-PEC coupled)	Dr. Vivek Ramakrishnan, Sree Sankara College, Kalady, Ernakulam	Recommended with Modification	Recommended excluding Manpower cost
11	SRI 02 /2023-24	Polymer Assisted Growth of Perovskite Materials: Advancing Green Technologies and Sustainable Energy Applications through Structural, Elect	Dr. Aparna Thankappan, Baselius College, Kottayam	Recommended with Modification	Recommended excluding Manpower cost

		ronic and Catalyst			
12	SRI 17 / 2023 -24	Design and Fabrication of Efficient Polymer Solar Cells Using Modified PEDOT:PSS as Hole Transport Layer	Dr. Suchand Sangeeth, National Institute of Technology Calicut, Kozhikode	Recommended	
13	SRI 06 / 2023 -24	A Micro Wind Mill Network for Power Generation in Tall Residential Apartment Complex	Dr. Reshmi Krishna Prasad, UKF College of Engineering and Technology, Paripally Kollam	Recommended with Modification	Proposal to be modified limiting the objective to the development of a micro wind mill with battery storage excluding Manpower cost
14	SRI 10 / 2023 -24	Investigation of improving the efficiency of biomaterial based hybrid piezoelectric triboelectric nanogenerator for low wind energy harvesting	Dr. Rani S, College of Engineering, Trivandrum, Engineering College PO, Sreekaryam, Thiruvananthapuram	Recommended with Modification	Recommended excluding Manpower cost
15	SRI 03 / 2023 -24	Optimizing the Economic Management of a Virtual Power Plant across Day-ahead and Real time Market amidst Uncertainties in Electrical Parameters	Dr. Poushali Pal, Government Engineering College, Barton Hill, Thiruvananthapuram	Recommended with Modification	Recommended excluding Manpower cost. Availability of the PI for the entire duration to be confirmed

The PEC meeting will be held as early as possible. Once it is finalised, the schedule of the meeting will be intimated to the PIs of the shortlisted proposals.



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