

ഭരണഭാഷ-മാതൃഭാഷ

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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)

No.: ANERT-TECH/259/2020-S(NEP)

16/09/2021

NOTE

Sub: Shortlist of proposals selected for presentation before PEC under SRI 2020-21

Based on the presentations made by the Principal Investigators before the respective Internal Screening Committee, the following proposals have been provisionally shortlisted for presentation before the Proposal Evaluation Committee (PEC) for final selection under SRI 2020-21.

SHORTLIST OF PROPOSALS FOR PRESENTATION BEFORE PROPOSAL EVALUATION COMMITTEE - SRI 2020-21

Topic: Bio Energy						
Sl. No.	Reference No.	Principal Investigator	Institution	Project Title	Category	Remarks
1	SRI 09/2020-21	Dr. Amith Aravind, Associate Professor, ME	Saintgits College of Engineering, Kottayam-686532	Transesterification of Rubber seed oil to Biodiesel using a Novel Nanocatalyst, Derivation of Blended Diesel and its Performance Evaluation for Automobile Engines	Sponsored	Revision required in the proposal
2	SRI 18/2020-21	Dr. Krishnakumar B, Principal Scientist, ETD	CSIR-NIST, Thiruvananthapuram-695019	Performance Analysis of Biogas Plants Installed by ANERT	Collaborative	Revision required in the proposal
3	SRI 28/2020-21	Maneesh T, Assistant Professor, ME	Marian Engineering College, Trivandrum-695582	Assessment of Different Organic Feed Materials for Producing Biogas Using Horizontal Drum Type System	Sponsored	Revision required in the proposal

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Topic: Solar PV						
Sl. No.	Reference No.	Principal Investigator	Institution	Project Title	Category	Remarks
1	SRI 04/2020-21	Ms Deepthi Jayan K Assistant Professor, Department of Basic Sciences & Humanities	Rajagiri School of Engineering and Technology, Kochi-682039	A combined DFT and Post DFT Investigation on Lead-Free non toxic Inorganic Perovskites	Sponsored	Recommended
2	SRI 10/2020-21	Akhila K, Assistant Professor, EEE	Adi Shankara Institute of Engineering & Technology, Ernakulam-683574	Cost Optimised Floating Solar Plants for Rural Electrification	Sponsored	Recommended
3	SRI 19/2020-21	Dr. Adersh Ashok, Scientist, CSTD	CSIR-NIST, Thiruvananthapuram- 695019	Design and Development of Optics Integrated Rooftop Agrioltaics	Sponsored	Recommended
4	SRI 26/2020-21	Dr. M S Senthil Saravanan, Professor, ME	Sree Buddha College of Engineering, Alappuzha-690529	Efficiency Improvement in Dye Sensitized Solar Cells Using Carbon Nanotubes	Sponsored	Recommended
5	SRI 38/2020-21	Dr. Angel Susan Cherian, Assistant Professor, Department of Physics	Mar Thoma College, Tiruvalla-689 103	Bi-facial thin film solar cells-An inexpensive and effective way of photovoltaics	Sponsored	Recommended
6	SRI 42/2020-21	Dr. Aithin Antony, Associate Professor, Department of Physics	Cochin University of Science and Technology, Kochi-682 022	Fabrication of Interdigitated Dopant Free Carrier Selective Silicon Heterojunction and PERC Solar Cells	Sponsored	Recommended
7	SRI 48/2020-21	Dr. Manoj Kumar M V, Professor, EEE	Government College of Engineering, Kannur-670563	Smooth transfer of Solar PV Inverter from Islanded to Grid Connected Mode	Sponsored	Revision required in the proposal
8	SRI 54/2020-21	Abhish R S, Assistant Professor, EEE	College of Engineering, Perumon, Kollam-691601	Design and Development of High Efficient Solar PV System for AC Applications	Sponsored	Recommended
9	SRI 55/2020-21	HeeranMOE G, Assistant Professor, Department of Chemistry	Mar Thoma College, Tiruvalla-689 103	New Photoanode Material Architectures for Dye Sensitized Solar Cells	Sponsored	Recommended
Topic: Solar Thermal						
Sl. No.	Reference No.	Principal Investigator	Institution	Project Title	Category	Remarks
1	SRI 07/2020-21	Pradeep A, Assistant Professor, ME	College of Engineering, Trivandrum, Thiruvananthapuram-695016	Design and Development of an effective Concentrating Solar Power Technology	Sponsored	Recommended
2	SRI 34/2020-21	Dr. Jithesh P K, Assistant Professor, ME	Government Engineering College, Kozhikode-673005	Design and Development of High Yield Concentrated Solar Thermal Desalination Systems	Sponsored	Recommended
Topic: Wind Energy						
Sl. No.	Reference No.	Principal Investigator	Institution	Project Title	Category	Remarks
1	SRI 22/2020-21	Dr. Jayaraj Kochupillai, Principal	Mar Basellos Christian College of Engineering and Technology, Peermade, Idukki-685531	Vortex Induced Renewable and Non-polluting Wind Energy Conversion System	Sponsored	Recommended

Topic: Storage and Electric Vehicles						
Sl. No.	Reference No.	Principal Investigator	Institution	Project Title	Category	Remarks
1	SRI 02/2020-21	Dr. Vishnu B R, Assistant Professor, ME	Marian Engineering College, Trivandrum-695582	Design and Fabrication of Electric Go-kart with Improved Cooling Technology of Battery	Sponsored	Recommended
2	SRI 16/2020-21	Dr. Trijo Tharayil, Associate Professor, ME	Sree Budha College of Engineering, Alappuzha-690529	Thermal Management of Batteries in Electric Vehicles Using Pulsating Heat Pipes	Sponsored	Recommended
3	SRI 31/2020-21	Deepa M U, Assistant Professor, EEE	College of Engineering, Trivandrum, Thiruvananthapuram-695016	A Novel Control Strategy for Enhancing the Storage of Battery in Electric Vehicles	Sponsored	Recommended
4	SRI 32/2020-21	Dr. Jayaprakash P, Professor, EEE	Government College of Engineering, Kannur-670563	Investigation on Fuel Cell Electric Vehicle for Power Conditioning and Power Dispatch to the Grid	Sponsored	Recommended
5	SRI 33/2020-21	Vinod V P, HoD, Department of EEE	Sree Budha College of Engineering, Alappuzha-690529	A Novel Regenerative Braking System with Dual Input Superboost Converter for a BLDC Driven Electric Vehicle	Sponsored	Recommended
6	SRI 43/2020-21	Dr. Rajesh Baby, Associate Professor and Dean Research,	St. Joseph's College of Engineering & Technology, Palai-686579	Design, fabrication and implementation of Peltier Based Passive Cooling System for Thermal Management of Li-ion Batteries Used in Electric Vehicles	Sponsored	Recommended
7	SRI 46/2020-21	Dr. Jenopaul, Professor, EEE	Adi Shankara Institute of Engineering & Technology, Emakulam-683574	Design and Development of Low Powered Onboard Hydrogen Production System for Future Fuel Cell Based Vehicles	Collaborative	Recommended
8	SRI 51/2020-21	Dr. Soney C George, Dean Research	Amal Jyothi College of Engineering, Kanjirappally, Kottayam-686518	Development of Piezo-electric Mxene/Bismuth Titanate-PVDF/CTAB modified rGO Supercapacitor Power Cell	Sponsored	Recommended
Topic: Miscellaneous						
Sl. No.	Reference No.	Principal Investigator	Institution	Project Title	Category	Remarks
1	SRI 47/2020-21	Dr. Kishor Kumar V V, Assistant Professor, ME	Government College of Engineering, Kannur-670563	Design and Development of a solar cell powered thermo electric cold storage facility	Sponsored	Recommended

Apart from the conditions specified in the Guidelines of the Programme, the following conditions are also applicable for the shortlisted proposals

1. Strict timelines would be fixed during the approval stage itself in consultation with the applicants.
2. There shall be no extension of timelines.
3. There shall also be no relaxation of the conditions stipulated.
4. Quarterly status report shall be submitted.
5. There shall be a quarterly review mechanism and report shall be submitted to The Director, ANERT.
6. Release of payment shall be commensurate with progress of the work getting reviewed quarterly.
7. The final payment shall be released only after acceptance of the Project Completion Report and other related documents by ANERT.
8. In case of any deviations from the stipulated conditions or if the Evaluation Committee is not satisfied, the project will get terminated and the whole amount will have to be paid back to ANERT.

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Individual communications containing specific instructions applicable for each of the shortlisted proposals including the details of revision to be incorporated in the proposal if any, will be provided. The proposals will be considered for further processing only if the requirements are met in time. The PEC meetings are expected to be held in October 2021 and the detailed schedule of meeting will be intimated in due course of time.



Narendra Nath Veluri I F S
Chief Executive Officer