

SPONSORED R & D PROJECTS-RECENT

Sl. No.	Title Of The Project	Investigators	Sponsoring Agency	Year Of Starting	Amount (Rs)	Status
1	Electrically excited Synchronous machine- EESM	Dr. Nikhil Sasidharan (PI)	C-electric Pvt Ltd	2022	13,00,000/-	Ongoing
2	Electrically excited Synchronous machine- EESM	Dr.ShreelakshmiM. P (Co-PI)	C-electric Pvt Ltd	2022	13,00,000/-	Ongoing
3	A Novel Regenerative Gear-less Drive Train Based on Doubly Fed Poly Phase Synchronous Reluctance Motor with Active Power Factor Correction Capability	Dr.ShreelakshmiM. P	SERB-SRG	2021	18,35,000/-	Ongoing
4	A clean and sustainable campus transport system	Dr.ShreelakshmiM. P	DST	2019	35,00,000/-	Ongoing
5	A Resilient DCCommunity Grid for the Provision of Ancillary Services to Local Grid	Dr. Nikhil Sasidharan	SPARC, MHRD	2019	64,79,841/-	Ongoing
6	Steering controlled adaptive headlights system	Dr. Mithun M S	NIT Calicut	2021	90,000/-	Ongoing
7	Development of an alternative fluid to transformer mineral oil	Dr. Preetha P and Dr. Sindhu T K	KSCSTE	2020	5,70,000/-	Ongoing
8	Condition assessment of polymeric cable insulation through time domain measurements considering the effect of charge trapping in the insulation	Dr. Nasirul Haque	DST-SERB	2021	15,01,000/-	Ongoing
9	Condition assessment of stator insulation in rotational machines due to thermal and electrical ageing through advanced dielectric response measurements	Dr. Nasirul Haque and Dr. Sindhu T K	CPRI	2022	40,72,000/-	Ongoing
10	Development of Spray Evaporation Technique for the Preparation of Uniform Microparticles of Ammonium Dinitramide (ADN) and Surface Modification by Atomized Spray Coating Method	Dr. Anuj A Vargeese (Department of Chemistry) & Dr.Mija S J	DRDO	2021	72,59,824/-	Ongoing
11	Stator Fault Diagnosis through Wavelet Based MCSA of Inverter Fed Induction Motors	Dr. Jagadanand G	KSCSTE	2019	6,70,000/-	Ongoing

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12	Development of an adaptive distance relaying scheme in a low inertia power system with hardware realization	Dr. Deepak M	DST - SERB	2022	28,78,790/-	Ongoing
13	High Gain DC-DC Converter fed Multilevel Inverter for UPS Application	Dr.Kumaravel S	NaMPET Ph-III	2019	38,48,000/-	Ongoing
14	Design and Development of Solar PV Fed Efficient Universal Converter for V/F Drivers	Dr.Kumaravel S	CSIR	2021	20,16,000/-	Ongoing
15	Development of a Nano-grid structure for Electric Vehicle Application	Dr.Kumaravel S	Young Faculty Research Fellowship, MeitY, Govt. of India	2020	14,80,000/-	Ongoing
16	Investigation on thermally assisted electro migration Mechanism in metallic Nano wires	Dr. V Karthikeyan	TEQIP – Collaborative Research Scheme	2019	12,10,000/-	Ongoing
17	Design and Development of Solar PV Fed Efficient Universal Converter for V/F Drivers (Co-PI)	Dr. V Karthikeyan	CSIR	2021	20,16,000/-	Ongoing
18	Solar powered Smart cooking system	Dr. V Karthikeyan	BIRAC-DBT	2020	5,00,000/-	Ongoing
19	Development of Smart Controller for Switched Reluctance Motor	Dr. Ashok S.	KSCSTE	2016	17 Lakhs	Completed
20	Development of Solid State Transformer as Wind Power Interfacing Device	Dr. Ashok S.	CPRI Bangalore	2016	28 Lakhs	Completed
21	Development of cost effective 3 axis intelligent platform stabilization system	Dr. Ashok S. Dr. M. P. Nandakumar Dr. T. K. Sunil Kumar	DRDO	2015	37 Lakhs	Completed
22	Security Assessment of Microgrids in Isolated and in Grid Connected Mode	Dr. Ashok S. Dr.Sunitha R.	CDAC- NaMPET	2015	15 Lakhs	Completed

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23	Development of Composite Insulators for High Energy Storage (Super Capacitor) Applications	Dr. Sindhu T.K .	DST	2012	24 Lakhs	Completed
24	Non-linear Analysis of EEG Signals of Patients with Alzheimer Disease	Dr. Subha D. P.	DST	2012	18 Lakhs	Completed
25	Development of Intelligent Robot for Fault Diagnosis of Power Lines	Dr. Ashok S.	KSCSTE	2012	11 Lakhs	Completed
26	Investigation of Distributed Generation System Integration Strategies on a Laboratory Scale Microgrid	Dr. Elizabeth P.Chериyan	DRDO	2012	7 Lakhs	Completed
27	Development of Centre for Power Quality & Energy Research	Dr. Ashok S.	DST-FIST	2009	100 Lakhs	Completed
28	Investigation on Power Quality issues of Drives	Dr. Ashok S.	KSCSTE	2009	11 Lakhs	Completed
29	Unified Expert Controller Strategy Design for Hybrid Energy System	Dr. Ashok S.	MHRD	2005	14 Lakhs	Completed

INSTITUTE FUNDED FRG/FRP-RECENT

Sl. No	Title of the project	Investigators	Year of Starting	Amount (Rs)	Status
1	Fault classification and identification in a distribution system with high renewable integration	Dr. Deepak M	2022	5,00,000/-	Ongoing
2	Development of a diagnostic system for online monitoring of transformer bushing	Dr. Nasirul Haque	2022	4,90,000/-	Ongoing
3	Fault Diagnosis in Rotating Machines Using Deep Learning	Dr. Shihabudheen KV	2022	5,00,000/-	Ongoing
4	Formation control & target tracking protocol for heterogeneous multi-agent system with time delays	Dr. KM Arun Neelimegham	2022	4,47,000/-	Ongoing
5	Fast charging station for EV	Dr. Shreelakshmi M P	2022	4,46,000/-	Ongoing
6	Developing a cost-effective, real-time sensor for estimating the dissolved moisture in transformer oil	Dr. Mithun M. S.	2022	4,73,000/-	Ongoing
7	Power Converters to EV drives and Fast-Charging Infrastructure	Dr. V. Karthikeyan	2019	5,00,000/-	Ongoing
8	A Resilient DC Community Grid for the Provision of Ancillary Services to Local Grid	Dr. Nikhil Sasidharan	2019	5,00,000/-	Ongoing
9	Composite Transmission Line Model and Power flow control	Dr. Gopakumar P	2019	5,00,000/-	Ongoing

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10	Advanced control schemes and adaptive control schemes of Two tank Hybrid Interacting system	Dr. S. Kanagalakshmi	2019	5,00,000/-	Ongoing
11	Network Mechanisms of Stroke & Recovery - A Computational Study	Dr Sanjay M	2019	3,00,000/-	Ongoing
12	Development of Nano Composite Insulators	Dr. Sindhu T. K.	2011	5 Lakhs	Completed
13	A Closed Loop Control Strategy for Selective Harmonic Detection and Elimination for Generic Multilevel Inverter Configuration for Medium and High Voltage Applications	Dr. Mukti Barai	2011	5 Lakhs	Completed
14	Development of Novel Power Conditioner for Hybrid Energy System	Dr. Kumaravel S.	2010	5 Lakhs	Completed
15	Nonlinear Analysis of EEG Signals in Biomedical Applications	Dr. Subha D. P.	2010	5 Lakhs	Completed
16	Power System Security Assessment	Dr. Sunitha R.	2007	5 Lakhs	Completed
17	Investigations on Power Quality Issues of Motor under Different Starting Conditions	Dr. Sunitha R. Dr. S. Ashok	2006	0.5 Lakhs	Completed
18	Development of optimal pico-hydel generator for rural areas.	Dr. Sunitha K Dr. Preetha P	2006	0.46 lakhs	Completed
19	Investigation on the performance of Electronic Energy Meter under non linear loads.	Dr. Preetha P Dr. S . Ashok	2005	0.35 lakhs	Completed
20	Power Quality Problems in Educational Institutions and its Mitigation Techniques	Dr. Subha D. P. Dr. Sunitha R. Dr. Elizabeth P.Cheryan	2001	0.1 Lakhs	Completed