## **External Funded Projects**

S.	Project Title	Faculty	Funding	Amount	Duration	Starting	Year of
No.			Agency	in lakhs	(in	year	Completion
					Years)		
1	Design of silicon carbide based hard	Dr. B. L. Mathur (PI)	AICTE - RPS	5	3	2007	2010
	switched DC-AC	Dr. R. Seyezhai (Co-PI)					
	power Converter						
2	Matrix converter based Weak grid	Dr. Ranganath Muthu	CWET	7.5	3	2011	2015
	connected DFIG	(PI)	(MNRE)				
	System	Dr. M. Senthil Kumaran					
		(Co-PI)					
3	Design and Development of Z source	Dr. R. Seyezhai (PI)	AICTE	24.5	3	2013	2016
	cascaded MLI for PV applications						
4	Design and Development of	Ms. M. Vijayalakshmi	DST - WoS A	21	3	2014	2017
	Flywheel based Power Conditioning	(FT PhD Student)					
	System for a Renewable energy fed	Dr. R. Ramaprabha					
	Micro grid	(Scientist Mentor)					
5	A Novel fused converter for SPV	Dr. V. Rajini (PI)	MNRE	34	2	2014	2016
	wind hybrid systems for powering						
	rural telephony						
6	Design and Development of Hybrid	Dr. M. Balaji (PI)	DST - SERB	22.18	3	2015	2018
	Switched Reluctance Motor Drive						
7	Smart Street Lighting	Mr. V. Thiyagarajan	Horizon	1	1	2015	2016
	System		Solutions				
			Ltd				

8	A low cost minimal footprint single phase solid state transformer for	Dr. V. Rajini (PI)	AICTE - RPS	20	3	2016	2019
9	medium voltage applications  Design and implementation of Trip wire alarm system for HEC mitigation in Forest Borders	Dr. R. Jayaparvathy (PI)	Government of Tamilnadu	5.5	1	2017	2018
10	Modernization of HV lab as a unified power engineering lab with electromechanical energy conversion power electronics and power systems experiments	Dr. V. Rajini (PI)	AICTE – MODROBS	19.54	1	2018	2019
11	A Robustly Optimal Energy Management System for High PV penetrated Smart Cities with A Case Study: Implementation of PVs for Smart Street Light Poles	Dr. Mrunal Deshpande	University of new South Wales UNSW), Sydney	5.5	1	2018	2019
12	Design and Development of Axial Flux Switched Reluctance Motor based Battery operated Vehicle	Dr. P. Saravanan	DST-SERB	55	3	2016	2021
13	Modernization of Renewable Energy Conversion Laboratory	Dr. V. Kamaraj & Dr. R. Seyezhai	AICTE- MODROBS	11	2	2019	2021
14	Design and Development of Energy Efficient Permanent Magnet Assisted Reluctance Motor Drives for Pump Application	Dr. V. Kamaraj (PI)	DST - SERB	21.19	3	2019	2022
15	Radiation resilient RF receiver front end components through SIGs BICMOS: Design and validation	Dr. C. Premanand Dr. K. K. Nagarajan (Co-PIs)	BRNS	32.5	3	2020	2023

16	Experimental analysis and optimization of electric Field distribution around polymeric insulators in Extra high voltage transmission lines	Dr. K. Usha (PI)	SERB	29.75	3	2022	2025
17	Design and Development of Replicable and Scalable Cyper Physical Micro Grid System"	Dr. R. Deepalaxmi (CO-PI) Dr. C. Vaithilingam VIT, Chennai (PI)	DST - India- Serbia, Bilateral STC	15.30	3	2022	2025
18	Assessment and Monitoring of Invasive Alien plant species in India and formulation of Strategies for management of key invasive alien plant species in different regions of the country	Dr. R. Jayaparvathy (PI)	ICFRE- AICRP-7- Ministry of Environment, Forests and Climate change	31.15	3	2022	2025
19	Development of black phase Formamidinium lead triiodide-based hybrid perovskite light absorber with improved thermal stability for solar cell applications	Dr Mrunal Deshpande (PI) Dr R Govindraj (Co-PI)	UGC DAE CSR		24 Months	March 2023	March 2024