

## Annexure –iii

## List of Project Proposals submitted by faculty to various funding agencies during 2014-15

Sl. No.	Department to which proposal is submitted	School / Name of the Individual / Principal investigator / Co-investigator	Subject area / Title	Grant Expected in Rs.	Letter reference
1.	SERB, Department of Science and Technology (DST)	Dr. D. Nirmal, Associate Professor in Electronics & Communication Engineering	<i>'A Novel Four Layer GaN Based High Electron Mobility Transistor Device Fabrication for High Frequency Applications'</i>	22,30,000	KU/REG/DS-19/ECE/SERB/3628 /2014, June 25, 2014
2.	Global Research Outreach (GRO) Program 2014	Dr. D. Abraham Chandy, Associate Professor in Electronics and Communication Engineering	<i>'Two Dimensional Statistical Model Based Face Recognition in Surveillance Robust to Image Variations'</i> (USD 37163)	22,46,689	Submitted online
3.	Ministry of Environment & Forests (MoEF)	Dr. N.M. Sivamangai, Associate Professor in Electronics and Communication Engineering	<i>'Development of a VLSI Based system to Reduce Human-Elephant Conflict in the Western Ghats Region of Tamil Nadu'</i>	20,00,000	KU/REG/DS-19/ECE/MoEF/081/2014, July 2, 2014
4.	Indian Council of Social Science Research (ICSSR)	Dr. D. David Wilson, Assistant Professor (SG) in English	<i>'A Study on the Trends of Standardization of Cultural Patterns of Irula Tribe and Documenting their Literature and Cultural Diversity of Local Level'</i>	19,77,187	KU/REG/DS-19/ENG/ICSSR/ 151 /2014, July 11, 2014
5.	Indian Council of Social Science Research (ICSSR)	Dr. J. Sundarsingh, Professor & Head of the Department of English	<i>'Promoting Small Scale Business of Entrepreneurs from Backward districts in Tamilnadu by enhancing their sales communication strategies through Social Media Marketing'</i>	30,56,635	KU/REG/DS-19/ENG/ICSSR/ 157 /2014 July 11, 2014
6.	Indian Council of Social Science Research (ICSSR)	Dr. M. Poonkodi, Assistant Professor of English	<i>'The Impact of Social Media on Indian Women's Interpersonal Behaviour – A Study of Women in Metropolitan Cities'</i>	19,46,840	KU/REG/DS-19/ENG/ICSSR/ 168/2014 July 14, 2014
7.	Indian Council of Social Science Research (ICSSR)	Dr. S. Anthony Raj, Professor in the School of Business, Leadership and Management	<i>"An evocative study on the traffic congestion in Coimbatore and Tiruppur districts – An interdisciplinary approach to find suitable trouncing strategies"</i> .	41,50,000	KU/REG/DS-19/ENG/ICSSR/ 162 /2014, July 12, 2014
8.	Indian Council of Social Science Research (ICSSR)	Dr. Susan Chirayath, Professor in the School of Business, Leadership and Management	<i>"Initiatives for post office savings among the socio-economically backward ethnic groups of tribals of Siruvani villages in the Western Ghats of Coimbatore district"</i>	4,00,000	KU/REG/DS-19/KSBLM/ICSSR/2014, July 14, 2014

9.	NABARD	Dr. A. Sanjeevi Gandhi, Assistant Professor in Electronics & Instrumentation Engineering	<i>“Fabrication of standalone affordable small scale (500L – 1000L) Process automated domestic waste water treatment prototype”</i>	9,05,174	Submitted online
10.	DRDO	Dr. Kumudha Raimond, Professor of Computer Science and Engineering	<i>“Climate Driven Land Cover Change and Dust Storm Forecast using Machine Learning”</i>	27,79,000	KU/REG/DS-19/CSE/ICSSR/ 310 /2014, July 31, 2014
11.	Indo-Canadian Collaborative Project & IC-IMPACTS	Prof.Mark R. Servos, University of Waterloo & Dr.S.Sundar Manoharan, Karunya University	<i>“Fabrication of visible light-excited photocatalytic TiO2 nanocomposite membranes for removal of organic pollutants and pathogenic microorganisms”</i>	1,03,00,000 + \$389CDN	Submitted online
12.	Council of Scientific and Industrial Research (CSIR),	Dr. R. Nandhakumar, Associate Professor in Chemistry	<i>“Rational Design and Synthesis of Heterocycles Based Modular Fluorescent Chemosensors for Anions and Cations”</i>	30,68,000	KU/REG/DS-19/CHE/CSIR/ 558 /2014, September 3, 2014
13.	Central Power Research Institute	Dr.S.Sundar Manoharan, Professor / Vice-Chancellor	<i>‘Control and optimization of non-linear characteristics of Nano ZnO composite varistors for miniature electronics devices’</i>	23,30,050	Nil, September 15, 2014
14.	Department of Science & Technology (DST)	Dr. S. Salaja, Associate Professor / Information Technology	<i>‘Decision Support System for farmers in Selecting the best profitable crop for cultivation’</i>	22,18,200	Submitted online September 17, 2014
15.	Central Power Research Institute (CPRI),	Dr. A. Samson Nesaraj, Associate Professor in Chemistry	<i>‘Development of Nanocrystalline Materials for Solid Oxide Fuel Cells Working at 600° C’</i>	31,34,000	KU/REG/CPRI/697/2014, September 18, 2014
16.	Central Power Research Institute	Dr. K. Parameswari, Assistant Professor in Chemistry	<i>‘Covalent Intercalation of Graphene Oxide with Polyamine Conjugated Fluorescent Probes for Light Harvesting Antennas’</i>	23,69,000	KU/REG/DS-19/CHE/CPRI/ 701 /2014, September 18, 2014
17.	Central Power Research Institute	Dr. V. Jegathesan, Associate Professor /EEE – PI & Dr.L. Godson Asirvatham, Asso.Prof.Mech. Engineering, Co-PI	<i>‘Development of a SKVA Solar Thermal Power Plant Using Parabolic Through Solar Collector with Graphene-Synthetic Oil Nanofluid’</i>	25,98,200	Nil, September 19, 2014
18.	Central Power Research Institute	Dr. J. Jayakumar, Associate Professor in EEE	<i>‘ICT Platform for Smart Grid Technology’</i>	22,70,000	Nil, September 19, 2014
19.	Ministry of New and Renewable Energy,	Dr. Jibu Thomas, Assistant Professor (SG) in Biotechnology	<i>‘Scale up in the biomass production of native microalgae isolates with potential for biofuel using biorefinery approach’</i>	91,62,960	KU/REG/DS-19/ BT /MNRE/ 726 /2014, dated 22.09.2014 (Collaborative Research Project Proposal with BESI, USA)

20.	Ministry of New and Renewable Energy,	Dr. Josemin Bala, Professor of Electronics & Communication Engineering	<i>'Investigations on Energy Efficient Protocol Stack and Data Gathering for Underwater Wireless Sensor Networks'</i>	22,06,561	KU/REG/DS-19/ECE DEIT/ 796 /2014, dated 24.09.2014
21.	United Board for Christian Higher Education in Asia (UBCHEA)	Mr. G. Arockiasamy, Assistant Professor in Electronics & Media Technology	<i>"Creating Awareness and Educating the Students of Karunya about Tribal Culture in India"</i>	\$4455.2 (≈2,75,000)	Submitted online October 9, 2014
22.	Council of Scientific and Industrial Research (CSIR),	Dr. R. Mercy Shanthi, Associate Professor in Civil Engineering	<i>"Experimental Investigation on Seismic Upgrade of Beam Column Joints Retrofitted with Fibers and Super elastic SMA"</i>	24,84,000	KU/REG/DS-19/CIV/ CSIR/ 868 /2014, October 10, 2014
23.	National Institute for Research and Development in Defence	Dr. S. Darius Gnanaraj, Professor of Mechanical Engineering	<i>"Wearing down of Thordon Bearings"</i>	11,96,000	REG/DG/R/4083, October 10, 2014
24.	Department of Science & Technology (DST)	Dr. S. Rajesh, Professor in the Department of Physics	<i>'Development of multiple quantum well structure through thermal evaporation technique for maximal solar spectrum utilization and multiple exciton generation'</i>	29,60,000	KU/REG/DS-19/CIV/ SERB/ 2069 /2014, October 14, 2014
25.	Council of Scientific and Industrial Research (CSIR),	Dr. T. Selvaraju, Assistant Professor in Chemistry	<i>'Hybrid Reduced Graphene Oxide Supported Bimetallic Porous Nanostructures Syntheses and its Applications'</i>	21,78,960	KU/REG/DS-19/CHE/ CSIR/ 997 /2014, October 28, 2014
26.	Department of Science & Technology (DST)	Dr. N. Anand, Assistant Professor in Civil Engineering	<i>'Development of Capacity based Standards on Strength Properties of Concrete Materials under Elevated Temperature'</i>	26,21,000	KU/REG/DS-19/CIV/ SERB/ 1017 /2014, October 31, 2014
27.	United Board for Christian Higher Education in Asia (UBCHEA)	Dr. Jibu Thomas, Assistant Professor in Biotechnology	<i>'Documenting the Green Treasures of the Campus towards Green Accreditation'</i>	3,20,000 (5000 USD)	Submitted online
28.	Department of Science & Technology (DST)	Dr. S. Darius Gnanaraj, Professor of Mechanical Engineering	<i>'Development of Brake Friction Materials impregnated with nanoparticles'</i>	21,49,120	REG/DG/R/4109, November 17 , 2014
29.	Tamil Nadu State Council for Science and Technology (TNSCST)	Dr. B. Jebasingh, Assistant Professor in Chemistry	<i>'Development of Covalent Intercalation of Graphene Oxide with Smart Nano Materials for Solar Cell Applications'</i>	4,89,000	KU/REG/DS-19/CHE/ TNSCST/ 1175 /2014, November 27, 2014
30.	Tamil Nadu State Council for Science and Technology (TNSCST)	Dr. R.S.David Paul Raj, Assistant Professor in Biotechnology	<i>'Strategies for Improvement of Soil Health using bioformulation for sustainable vegetable cultivation'</i>	3,68,500	KU/REG/DS-19/CHE/ TNSCST/ 1174 /2014, November 27, 2014

31.	Council of Scientific and Industrial Research (CSIR),	Dr. I.V. Muthu Vijayan Enoch, Assistant Professor in Chemistry	<i>'Magnetic nanoparticle-tethered folic acid-cyclodextrin conjugate for effectively targeting cancer cells'</i>	21,96,000	KU/REG/DS-19/CHE/CSIR/ 1195 /2014, November 27, 2014
32.	Department of Science & Technology (DST)	Dr. A.Nishadh, Assistant Professor in Food Processing Engineering	<i>'Extraction of Fish gelatin and enhancing its bloom strength through bioconversion for food applications'</i>	26,31,600	KU/REG/DS-19/FPE/SERB/ 1197 /2014, December 1, 2014
33.	Tamil Nadu State Council for Science and Technology (TNSCST)	Dr. Suganthi Devadason, Professor & Head / Physics	<i>'Quantum well CdSe based solar cell using PVD technique'</i>	4,80,000	Nil, dated 26.11.2014
34.	SERB, Department of Science & Technology (DST)	Dr. Emilin Renitta, Assistant Professor in Biotechnology	<i>'Optimization of Freeze Drying of Oyster Mushroom (Pleurotus ostreatus) and Development of Extruded Snack Products through Response Surface Methodology Approach'</i>	25,39,200	Submitted online
35.	SERB, Department of Science & Technology (DST)	Dr. Suganthi Devadason, Professor & Head / Physics	<i>'ZnO nanotube-based quantum dot – sensitized solar cell towards the application of self powered nanodevices'</i>	21,95,700	Submitted online
36.	SERB, Department of Science & Technology (DST)	Dr. Prawin Angel Michael, Associate Professor / EEE	<i>'Development of 15 kW Micro Hydro Power Plant at Valara'</i>	47,00,000	KU/REG/DS-19/EEE/DST/ 1708 /2015, dated 6.2.15
37.	Department of Health Research (DHR), Ministry of Health and Family Welfare (MoHFW)	Dr. M.S.A.Muthukumar Nadar, Assistant Professor / Biotechnology (in collaboration with PSGCAS, Coimbatore)	<i>'Development of a Cost Effective Post Exposure Prophylactic (PEP) Treatment for Rabies Using Chicken IgY Antibodies against Recombinant Rabies virus G-protein'</i>	84,46,000 (KU-55,10,500)	KU/REG/DS-19/BT/MHFW/1722/2015, dated 10.2.15
38.	Indian Council of Medical Research (ICMR),	Dr.B.Jebasingh, Assistant Professor, Department of Chemistry	<i>'Liposomal Encapsulation of Novel, Multimeric, Neutral, LipoCEST Probes for MRI Applications: Design, Formulation and Evaluation'</i>	26,00,000	KU/REG/DS-19/CHE/ ICMR/ 1451/2015 dt. January 14, 2015
39.	Director (SWES) Ministry of New and Renewable Energy	Dr.M.Lydia, Assistant Professor, EEE	<i>'Design and Development of aerodynamically efficient low noise Savonius Wind turbine with a novel controller for energy efficiency and maximum power point tracking'</i>	70,00,000	KU/REG/EEE/MNRE / 4873/15 dated 2.3.15
40.	SERB, Department of Science and Technology (DST)	Dr.T,Anita Jones Mary Pushpa, Assistant Professor, ECE	<i>'Embroidery RFID Tag Antenna for Location Tracking'</i>	18,93,000	On line application March 2015

41.	Ministry of Environment, Forests & Climate Change	Dr.Elijah Blessing Prof & Director, CST	<i>'Development of an IT Enabled Forecast and Detection System for Forest Fire Based on Investigations in the Forest of the Western Ghats'</i>	44,10,000	KU/REG/CST/MoEF/4919/15 dated 9.3.15
42.	Ministry of Environment, Forests & Climate Change	Dr. N.M. Sivamangai, Associate Professor / ECE Co PI: Dr.D.Abraham Chandy	<i>'Development of a VLSI Based system to Reduce Human-Elephant Conflict in the Western Ghats Region of Tamil Nadu'</i>	17,00,000	KU/REG/ECE/MoEF/5030/15 dated 27.3.15
<b>Total</b>				<b>11,71,81,576</b>	