



**Government of Tamil Nadu**  
**Directorate of Technical Education (DoTE)**  
**Chief Minister's Research Grant (CMRG)**

53, Sardar Patel Road, DoTE Campus, Guindy, Chennai – 600025

**CMRG Scheme 2023-24**

**Projects Sanctioned (Engineering Domain)**

Sl. No	Principal Investigator	Project Title	Higher Education Institution	Department	Budget Sanctioned (Rs.)
1	Dr.V.Sivakumar	Next generation nanostructured bio based smart material for food packaging: A waste to sustainable wealth approach	Anna University, Chennai	Chemical Engineering	30,24,000
2	Dr.E.Arun Babu	Accessing the effects of climate change on the water energy food nexus: An integrated model for sustainable crop production	Anna University, Chennai	Civil Engineering	9,18,750
3	Dr.T Santoshini Priya	Desalination of seawater using flow capacitive deionization	Anna University, Chennai	Mechanical Engineering	25,14,750
4	Dr.K.Gunasekaran	Decision support system for sustainable bus transport in chennai	Anna University, Chennai	Civil Engineering	33,55,275
5	Dr R Vidjeapriya	Global warming reduction by CO <sub>2</sub> sequestration in artificial steel slag aggregates	Anna University, Chennai	Civil Engineering	31,02,750
6	Dr P Umamaheswari	Intelligent word recognizer for ancient Tamil paleographic scripts	Anna University, Chennai	Computer Science Engineering	16,43,309
7	Dr.V.Sathiesh Kumar	Techno enabled product and solutions for the specially abled children	Anna University, Chennai	Electronics & Communication Engineering	27,07,163
8	Dr.T.Thendral Thiyaagu	Machine learning assisted optimization of blending process of PLA with PBAT biodegradable flexible film for food packaging applications	Anna University, Chennai	Printing & Packaging Technology	26,47,859
9	Dr Dhananjay Kumar	A sustainable automated eco friendly hydro-organoponics urban farming system	Anna University, Chennai	Information Technology	34,24,995
10	Dr N Balasubramanian	Rationale design of solid polymer electrolyte for rechargeable solid-state-Li-S batteries- a pilot scale approach	Anna University, Chennai	Centre For Energy Storage Technologies	32,81,250
11	Dr D Kalpana	AI based point of care device for quality assessment of blood before transfusion	Anna University, Chennai	Instrumentation Engineering	34,91,250
12	Dr N Pappa	AI-integrated preventive healthcare expert guidance system based on traditional siddha yakkai ilakkanam (body composition) methodology	Anna University, Chennai	Instrumentation Engineering	22,05,000
13	Dr D Manamalli	Machine learning based smart soil tester and fertiliser management system	Anna University, Chennai	Instrumentation Engineering	19,68,750
14	Dr M Balasingh Moses	Artificial Intelligence based model to prediction of cultivation land water monitoring system to help farmers in rural Tiruchirapalli district	University College Of Engineering, Trichy	Electrical & Electronics Engineering	30,74,138
15	Dr S Ganesh Kumar	Photovoltaic based smart irrigation water pumping systems for agriculture using performance enhanced multilevel inverter	Anna University, Chennai	Electrical & Electronics Engineering	33,39,000
16	Dr SP Mangaiyarkarasi	Regenerative electric vehicles with swapping of batteries and integrated cooling system using arduino microcontroller	University College Of Engineering, Cuddalore	Electrical & Electronics Engineering	13,81,800
17	Dr V S Senthil Kumar	Determination of the process window for the magneto rheological machining of the aluminium green composite under	Anna University,	Mechanical Engineering	34,23,000

		different cutting conditions	Chennai		
18	Dr D Sangeetha	Hydrogen separation from industrial gas effluent	Anna University, Chennai	Mechanical Engineering	38,27,250
19	Dr S Kalaiselvam	Biomass derived carbonaceous materials for reliable and sustainable energy storage	Anna University, Chennai	Industrial Safety	30,45,000
20	Dr K Shanmuga Sundaram	Development of multipurpose agricultural equipment for sustainable agriculture	Anna University, Chennai	Mechanical Engineering	32,81,250
21	Dr M.Pradeep Kumar	Additive manufacturing of lattice structured bio polymeric implants with metallic coating for orthopaedics	Anna University, Chennai	Mechanical Engineering	23,52,000
22	Dr K Soorya Prakash	Material and design parameters optimization of horizontal axis magnus wind turbine	Anna University-Coimbatore	Mechanical Engineering	31,65,750
23	Dr M Venkata Ramanan	Environmentally benign vapour absorption refrigeration system using green hydrogen as energy carrier	Anna University, Chennai	Mechanical Engineering	38,85,761
24	Dr P Balachander	design, development and implementation of a controlled indirect freeze desalination	Anna University, Chennai	Mechanical Engineering	31,76,250
25	Dr R Rajeswari	Design and implementation of sustainable microgrid for Coimbatore city	GCT, Coimbatore	Electrical & Electronics Engineering	30,45,000
26	Dr K Ramesh	Experimental investigation on novel design development and synthesis of electrode	GCT, Coimbatore	Mechanical Engineering	36,75,011
27	M.Priadarsini	Mixed reality based digital twin of chemistry laboratory for school education	GCE, Salem	Computer Science Engineering	23,07,368
28	Dr V Manienyan	Effect of reactivity controlled compression ignition (RCCI) technology in hybrid diesel engine fuel with acetylene and biodiesel	GCE, Trichy	Mechanical Engineering	38,74,500
29	Dr.R.Joseph Daniel	Affordable and high efficiency SWCNT-C60 bhj photovoltaic cells employed solar panel fabrication , characterization and testing for effective implementation of solar energy mission	Annamalai University, Chidambaram	Electronics & Communication Engineering	37,59,000
30	Dr G Sakthivel	Development of automated aqua farm management system using internet of things (IoT) with underwater image enhancement	Annamalai University, Chidambaram	Electronics & Instrumentation Engineering	34,30,153
31	Dr B Prem Anand	Onboard energy generation through vortex induced wind turbine (VIWT) system for auxilliary utilities of electric vehicles	Annamalai University, Chidambaram	Mechanical Engineering	38,37,750
<b>Total (Rs.)</b>					<b>9,21,65,079</b>

<b>CMRG Scheme 2023-24</b>					
<b>Projects Sanctioned (Arts &amp; Science Domain)</b>					
<b>Sl. No</b>	<b>Principal Investigator</b>	<b>Project Title</b>	<b>Higher Education Institution</b>	<b>Department</b>	<b>Budget Sanctioned (Rs.)</b>
1	Dr. S. Marshal Anthoni	Security control design for stochastic hybrid systems with uncertainties and disturbances	Anna University, Coimbatore	Mathematics	23,41,133
2	Dr. K. Kaliraj	Asymptotic stability of mild solution for neutral fractional differential equation of sobolev type with impulsive and nonlocal conditions	University Of Madras - Chennai	Mathematics	17,95,500
3	Dr. R. Rajeswari	Radiogenomics and artificial intelligence based techniques for lung cancer precision medicine	Bharathiar University, Coimbatore	Computer Applications	17,48,250
4	Dr. S. Gopinathan	Design and development of robotic rover to detecting and analysis of plant virus attacks of whiteflies in agricultural land using IoT-deep learning techniques for agriculture forms	University Of Madras, Chennai	Computer Science	28,71,750

5	Dr. D. Usha	Augmented Reality: A tool to practise menstrual hygiene among ASD girls with special reference in madurai district	Mother Teresa Women's University, Kodaikanal	Computer Science	26,98,500
6	Dr. T. Amudha	Development of a novel artificial intelligence based device for pollution monitoring in motor vehicles integrated with a mobile app (mobemoc) for emission analysis and control	Bharathiar University, Coimbatore	Computer Applications	26,56,500
7	Dr. J. Vijaya Kumar	Fabrication, implementation of smart sensors, digital image processing and IoT techniques used in aeroponics based novel automated black pepper plant cultivation system	Bharathiar University, Coimbatore	Electronics & Instrumentation	36,48,750
8	Dr. D. Ramyachitra	IoT based climate change prediction using artificial intelligence techniques and the impact on agriculture: An analysis with special reference to Coimbatore region	Bharathiar University, Coimbatore	Computer Science	22,83,750
9	B.Sugumar (Dr.N.Rajendra Prasad as Co-PI)	Sensitization of drug resistance cells with ebsele by disturbing the cellular redox status	Annamalai University, Chidambaram	BioChemistry	17,85,000
10	Dr. R. Manikandan	Macrophage polarization in stat-1 knockout mice and ic-21 macrophage cells exposed to an atherogenic microenvironment with the effect of bornyl acetate via regulation of jak/stat and klf4 expression	University Of Madras, Chennai	Zoology	26,46,000
11	Dr. G. Sudhandiran	Evaluation of selective marine carotenoids against hepatocellular carcinoma in vivo and in vitro: Molecular insights into the role of ferroptosis and p53/nrf2/sestrin2 redox signaling	University Of Madras, Chennai	BioChemistry	29,03,250
12	Dr. M. Anusuyadevi Jayachandran	Investigating the role of eclipta alba on neurotrophin expression in regulating neurogenesis via sirt1 upregulation in alzheimer's like dementia	Bharathidasan University, Trichy	BioChemistry	31,81,500
13	Dr. K. S. Jayachandran	Anticipated role of presenilin-2 (ps2) in ischemia reperfusion induced injury during post myocardial infarction. An attempt to expose the hidden mechanism behind myocardial arrhythmia / stunning	Bharathidasan University, Trichy	BioInformatics	28,14,000
14	Dr. E. Sanmuga Priya	Harnessing phenolic acid-bound arabinoxylans from kodo millet as potent immunoregulatory dietary supplement	Anna University BIT, Trichy	Pharmaceutical Technology	34,12,500
15	Dr. P. Rajashree	Development of anti-hemorrhagic and macrophage polarizing bioscaffold for trauma and wound care	University Of Madras, Chennai	Crystallography Biophysics	26,25,000
16	Dr. Hemamalini Vedagiri	Screening and evaluation of nutraceuticals as pharmacological inhibitors of ferroptosis in reversing pcos pathogenesis: A comprehensive analysis	Bharathiar University, Coimbatore	BioInformatics	39,48,000
17	Dr. M.C. Harish	System approach to design multi-epitope peptide vaccine to tackle mycoplasma gallisepticum causing chronic respiratory disease in chickens and large scale production using affordable plant expression system	Thiruvalluvar University, Vellore	BioTechnology	34,96,500
18	S. Shanmugapriya	Evaluating and deciphering the putative molecular mechanism of chondrogenic and chondroprotective potential of bioactive compounds from indian medicinal plants - a step towards the identification of compounds for future development of disease modifying osteoarthritis drugs (DMOADS) for the treatment of osteoarthritis	Bharathidasan University Trichy	BioMedical Science	39,16,500
19	Ms.Antony Anista (Dr.V.Thirunavukkarasu as Co-PI)	Development of ald1 functionalized nanoparticle loaded with all-trans retinoic acid and talarozole for targeting colorectal cancer cells by differentiation - an investigational study	Bharathiar University, Coimbatore	BioTechnology	20,37,000
20	Dr. E. Sumathi	Development of a rationalized & innovative wound healing product as transdermal collagenous nanofibrous scaffold in synergism with bio-active compound from blepharis maderaspatensis for the treatment of diabetic foot ulcer	University Of Madras, Chennai	BioTechnology	37,38,000
21	J.Shuruthi (Dr.V.Ilangovan as Co-PI)	Anti-inflammatory activity of cardiac derived chimeric peptide during lps induced inflammation: In vitro & in vivo model	University Of Madras - Chennai	BioChemistry	14,80,500
22	Dr. C. Aiyavu	Preclinical evaluation of hispolon and varacin a natural product inhibitors of mdm2 as anticancer agents for oral and colon cancers	Thanthai Periyar Govt Arts Science College	BioChemistry	39,90,000
23	P.Pugazhendhi	Chemo protective effect of p-cymene on (dmdba) induced experimental oral carcinogenesis- an in vitro and in vivo approach	Annamalai University, Chidambaram	BioChemistry & BioTechnology	17,58,750
24	Prof. K.	Small molecules inhibitors of epithelial - mesenchymal transition	Alagappa	BioTechnology	39,79,500

	Pandima Devi	as therapeutic target for the treatment of lung cancer	University, Karaikudi		
25	Dr. P. Karthe	Functional characterization of high temperature requirement a (HTRA) protease of mycobacterium tuberculosis and inhibitor design	University Of Madras - Chennai	Structural Biology; Inter-disciplinary Life Sciences	25,46,250
26	Prof. S. Balakumar	Wealth from Chennai's waste - fabricating animal bone residue derived nanostructured bioactive hydroxypatite loaded biopolymeric scaffold for tissue regeneration and 3D sponge as a first-aid hemostatic kit - laboratory to market	University Of Madras - Chennai	Physical Science	36,33,000
27	Dr. C. Viswanathan	Mxene nanocomposite modified paper sensing prototypes for electrochemical detection of contaminants of emerging concerns	Bharathiar University, Coimbatore	Physical Science	39,69,000
28	Dr. N. Ponpandian	Integration of supercapacitors and batteries towards high performance hybrid energy storage devices using mos2 and metal-organic framework (MOF) derived carbon nanofiber as electrodes	Bharathiar University, Coimbatore	Physical Science	39,90,000
29	Dr. N.R Sasirekha	Development of mesoporous molecular sieve supported catalysts for catalytic hydrogenation of carbon dioxide to value added products-a carbon capture and utilization approach	University Of Madras - Chennai	Earth Science	30,71,250
30	Dr. B. Muthuraaman	Electric vehicles- a pursuit on the development of solid -state batteries by advanced solid polymer composite electrolyte system for next generation ultra - safety lithium ion batteries	University Of Madras - Chennai	Department Of Energy	39,96,300
31	Dr. R. Ramesh	Design and development of prototype photocatalytic panel reactor for solar hydrogen generation from food waste and use of simple microwave approach for synthesis of activated carbon from food waste derived lignin	Periyar University, Salem	Physical Science	32,55,000
32	Dr. B. Kadalmani	Developing smart biomaterial for drug release and 3D cell culture applications	Bharathidasan University Trichy	Animal Science	37,27,500
33	Dr. Arumugam Veera Ravi	Development of a novel target delivery system using microalgae to combat against microbial pathogens combined with the commercial cultivation of microalgae as an entrepreneurial venture	Alagappa University, Karaikudi	BioTechnology	28,14,000
34	Dr. S. Sivaramakrishnan	Sustainable formulation of natural anti-inflammatory ointment from endophytic bacteria of medicinal and herbal plants	Bharathidasan University Trichy	BioTechnology	35,63,438
35	Dr. S.D Saraswathy	Extraction, purification, characterization and immunomodulatory potential of sulfated polysaccharides isolated from the seeds of syzygium cumini	Bharathidasan University Trichy	Biomedical Science	32,70,750
36	Dr. S. Gowrishankar	Anticariogenic mouthwash for improved oral hygiene: A promising alternative to antimicrobials-based mouthrinse	Alagappa University, Karaikudi	BioTechnology	15,64,500
37	S.Essaki Nandhika (Dr.P.Suganthi as Co-PI)	Effective nano-based dressing for diabetic wound healing	University Of Madras - Chennai	Microbiology	16,06,500
38	Dr. R. Maheswaran	Isolation, identification and characterization of potential mosquitocidal molecule from marine actinobacteria-an eco-friendly management	Periyar University Salem	Zoology	38,95,500
39	Dr. R. Rajaram	Formulation of anticancer products from promising marine macroalgae sargassum cinereum (Jagardh, 1848) and validation using mice animal model against sandiadasis	Bharathidasan University Trichy	Marine Science	39,11,250
40	Dr. T. Muralisankar	Evaluation of microplastics contamination in edible fishes from the urban wetlands of Coimbatore, Tamilnadu and its exposure to human: The way forward towards the health risk assessment using the zebrafish model and bio-mitigation strategy	Bharathiar University, Coimbatore	Zoology	22,10,250
41	D.Rebecca Cathrine Jayakumari (Dr.N.Thirunavukarasu as Co-PI)	An assessment of micro and nano plastics contamination in the marine organisms at Ennore ecosystem	Dr.Ambedkar Government Arts College	Zoology	15,27,750
42	Dr. S. Winkins Santhosh	Screening of microplastics (MPs) and endocrine disruptors (EDs) from the edible fishes at Pulicat lake, Ennore creek and Adyar creek and their possible effects on human health	Governments Arts College Nandhanam	Zoology	27,61,500
43	Dr. R. Arthur James	Halophilic compounds as anti-infective biomaterial for diabetic - urinary tract drug resistant microbes	Bharathidasan University Trichy	Marine Science	36,22,500
44	Dr. N. Manoharan	Treatment of aflatoxin induced hepatocellular carcinoma using biopotential compound from salt marsh plants	Bharathidasan University	Marine Science	37,92,600

			Trichy		
45	Dr. C. Amutha	Assessment of nutrigenomics approaches on ornamental fish culture technology and its application in aquaculture industries	Madurai Kamaraj, University	Animal Behaviour & Physiology	27,51,000
46	Dr. S. Ravikumar	Biomedical potential of peptide from marine sponge associated bacteria for the management of human diseases	Alagappa University, Karaikudi	Biomedical Sciences	25,72,500
47	Dr. D. Dhanasekaran	Postbiotic as biopreservatives in fruit juice production and optimization using probiotic bacteria <i>limosilactobacillus fermentum</i>	Bharathidasan University Trichy	Microbiology	31,50,000
48	Dr. M. Jayakumar	Development of antimicrobial and bioprotective food packaging material from insect chitosan	University Of Madras - Chennai	Zoology	24,62,250
49	Dr. R. Sathishkumar	Rapid point-of-care crispr-based colorimetric nucleic acid test kit for identifying food fraud in fresh and processed meat	Bharathiar University, Coimbatore	BioTechnology	30,59,700
50	Dr. S. Sudhakar	Field testing and commercialization of a symbiotic plant growth accelerator	Bharathiar University, Coimbatore	BioTechnology	39,37,500
51	Dr. V. Shanmugaiah	Pilot scale production of secondary metabolites from <i>pseudomonasp</i> for the control of sheath blight of rice	Madurai Kamaraj University	Microbial Technology	28,35,000
52	Dr. Kalaiselvi Periandavan	Investigating the role of protein persulfidation in modulating oxidative stress and inflammation in cardiovascular disease- a case control study and experimental approach	Dr.ALM PGI of Bas.Med.Sci., UoM	Medical Biochemistry	39,27,000
53	Dr. V. Aravindhan	Development of novel immuno diagnostic test for detecting late stage gdm in pregnant women	Dr.ALM PGI of Bas.Med.Sci., UoM	Genetics	39,37,500
54	Dr. P. Srinivasan	Characterization of potential virion proteins in diversified lytic vibrio phages with therapeutic efficacy in lysing vibrio species in aquatic environment	Alagappa University, Karaikudi	Animal Health & Management	39,63,750
55	Dr. K. Balamurugan	Impact of candidate mirna during pathogen induced aging for development of anti-aging therapeutics	Alagappa University, Karaikudi	Biotechnology	17,15,108
56	N.B.Jayashree (Dr.Ellangovan Vellaichamy as Co-PI)	Constrction of novel chimeric peptide and its therapeutic effects against cardiac hypertrophic growth: In vitro & in vivo	University Of Madras, Guindy	Biochemistry	17,01,000
57	Dr. J. Angayarkanni	Bacterioferritin - a promosing tool as drug delivery system for cancer theranostics	Bharathiar University, Coimbatore	Microbial Biotechnology	37,17,000
58	Dr. N. Rajendra Prasad	Detection of circulating tumour cells for the early diagnosis and treatment outcome of oral tumorigenesis using magnetic nanosensors	Annamalai University, Chidambaram	Biochemistry & Biotechnology	34,54,500
59	Dr. Shakila Harshavarthan	Cadaver skin tissue engineering for burns patients	Madurai Kamaraj University, Madurai	Molecular Microbiology	35,96,250
60	Dr. D. Prabu	Development of multiplex loop-mediated isothermal amplification assay (multiplex lamp assay) for the rapid and accurate detection of mcr-1 to mcr-9 genes in colistin resistant enterobacteriaceae	University Of Madras, Chennai	Microbiology	30,55,500
61	Dr. M. Vasanthy	Invention of novel low-cost water filter for the removal of chemical species responsible for kidney failure in rural areas of Pudukkottai district	Bharathidasan University Trichy	Environmental Bio Technology	39,30,465
62	Dr. S. Vijayanand	Exploring industrial effluents from tannery and e-wastes for the generation of electricit y using bacterial dye sensitized solar cells (BDSSC)- a bio photovoltaic approach	Thiruvalluvar University Vellore	BioTechnoloy	35,08,861
63	Dr. A. Rajasekar	An integrated approach of electrochemical oxidation and sequential biodegradation of leather tannin industrial effluent contamination site	Thiruvalluvar University Vellore	BioTechnoloy	28,61,250
64	S. Manojkumar	Production of low cost eco-bio-friendly plastics from agro fruit wastes	Bharathiar University, Coimbatore	Microbial BioTechnology	20,94,750
65	Dr. A. Arun	A novel, sustainable, renewable, inexpensive residential septic tank system for bio electricity generation	Alagappa University, Karaikudi	Microbiology	39,21,750

66	Dr. A. Naresh Kumar	Redox metabolites of help for the creation of environmentally benign bio-nanoproducts to control pathogens and pests	Periyar University Salem	Zoology	39,11,250
67	Dr. M. Pandi	Screening, characterisation and strain improvement of taxol produced by an endophytic fungi	Madurai Kamaraj University, Madurai	Molecular Microbiology	29,50,500
68	Dr. T. Selvaraju	Visible light-driven g-c3n4 based direct double z-scheme heterojunctions for photoelectrocatalytic applications	Bharathiar University, Coimbatore	Chemistry	38,32,500
69	Dr. Jeyanthinath Mayandi	Hybrid silicon nanostructures for multipurpose application	Madurai Kamaraj University, Madurai	Chemistry	39,36,345
70	Dr. S. Viswanathan	Plastic-antibody based microfluidic biosensor fo rapid detection of dengue infection	Alagappa University, Karaikudi	Industrial Chemistry	39,11,250
71	Dr. J. Madhavan	Hydrogen fuel production: The value addition of the anodic oxidation process using layered double hydroxide @ biomass derived carbon based electrocatalysts	Thiruvalluvar University Vellore	Chemistry	35,53,200
72	Dr. D. Thirumalai	Synthesis, in-vitro anti-cancer and anti-inflammatory activities of pyrazole and acridinedione scaffolds	Thiruvalluvar University Vellore	Chemistry	24,78,000
73	Dr. K. Dinakaran	Development of sustainable (bio) polymer nanocomposites for EMI shielding on biomedical devices and electronic gadgets	Thiruvalluvar University Vellore	Chemistry	25,30,500
74	Dr. A. Siva	Design and development of highly enantioselective organocatalyzed transformations	Madurai Kamaraj University, Madurai	Inorganic Chemistry	39,58,500
75	Dr. R. Anandhan	Development of electrochemically tunable proton coupled electron transfer : A zero waste approach in organic synthesis	University Of Madras , Guindy	Organic Chemistry	25,72,500
76	Dr. B. Muthukumaran	Development of ultra stable all solid state sodium ion batteries for portabel power electronics	Presidency College, Chennai	Chemistry	38,80,695
77	Dr. T.M. Sridhar	Multifunctional clitoria ternatea based drug patches derived from siddha and unani literature for transdermal applications	University Of Madras, Guindy	Analytical Chemistry	31,23,750
78	Harini Raghavendhira (Dr.B.Ravi Sankar as Co-PI)	A study to identify the shared mechanism of chronic stress and obesity on ovarian dysfunction	Dr.ALM PGI of Bas.Med.Sci., UoM	Endocrinology	18,90,000
79	Dr. R. Ilangoan	Small interfering rna and pharmacological inhibition of euchromatic histone lysine methyltransferase 2 as therapeutic strategies for advanced stage of cervical cancer	Dr.ALM PGI of Bas.Med.Sci., UoM	Endocrinology	36,54,000
80	S. Charles (Dr.B.Anandan as Co-PI)	Identification and validation of urinary exosomal long non-coding rna as non-invasive biomarker for diagnosis of diabetic nephropathy from south indian population by rna sequencing	Dr.ALM PGI of Bas.Med.Sci., UoM	Genetics	20,94,750
81	Dr. G. Sathya Narayanan	Effect of nigella sativa on chronic unpredictable stress induced chandes in gonadal axis- a focus on gasotransmitters	Dr.ALM PGI of Bas.Med.Sci., UoM	Physiology	31,39,500
82	Dr. S. Selvakumar	Trans fat induced alterations in oral fat taste perception and obesity risk: Correlation to polymorphism in gpr120	Bharathiar University, Coimbatore	Biochemistry	35,07,000
83	C.R.Varsha (Dr.P.Kalaiselvi as Co-PI)	Decoding the role of non-coding rnas and nrf2-enos axis in progression of cardiac hypertrophy- a therapeutic approach	Dr.ALM PGI of Bas.Med.Sci., UoM	Medical Biochemistry	18,11,250
84	Dr. K. Umaraj	Electronic dictionary for classical Tamil	Madurai Kamaraj University	Linguistics	10,50,000
<b>Total (Rs.)</b>					<b>25,44,23,093</b>